

AN ALBUM
OF
TEXTILE DESIGNS

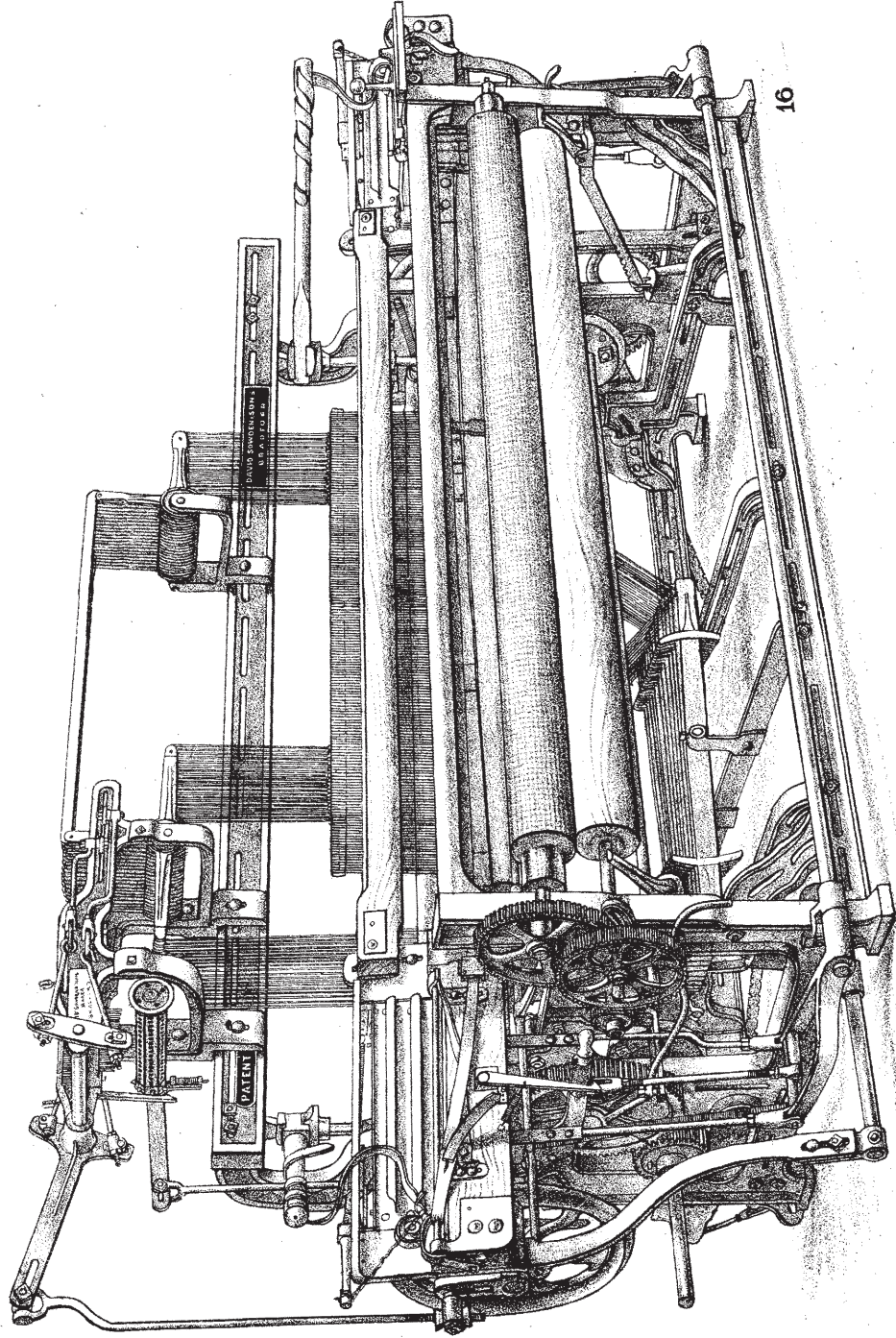
THOS. R. ASHENHURST

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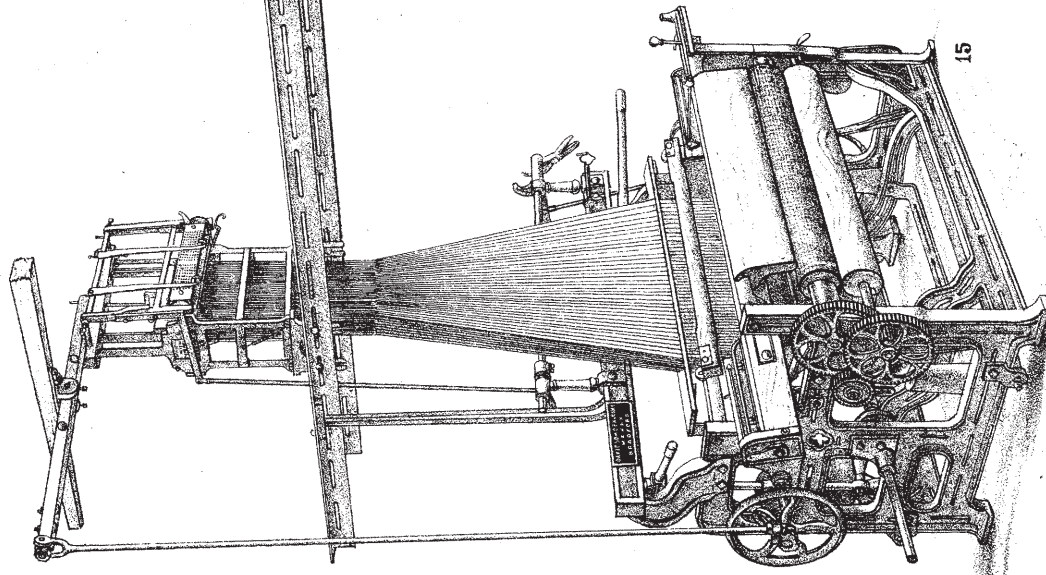
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AN ALBUM
OF
TEXTILE DESIGNS

CONTAINING UPWARDS OF
7,000 PATTERNS,

Suitable for FABRICS of every description, and an explanation of their
arrangements and combinations.

BY
THOS. R. ASHENHURST,

(HEAD MASTER OF THE BRADFORD TECHNICAL SCHOOL, AUTHOR OF A "PRACTICAL TREATISE ON
WEAVING AND DESIGNING OF TEXTILE FABRICS," ETC.,)

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BRADFORD:—THOS. R. ASHENHURST, 5, Ashgrove.

HUDDERSFIELD:—J. BROADBENT & Co., New Street.

HUDDERSFIELD:
J. BROADBENT & Co., DESIGN AND GENERAL PRINTERS, BOOKBINDERS, &C., ALBERT WORKS, NEW STREET.

MDCCCLXXXI.

[ENTERED AT STATIONERS' HALL.]

P R E F A C E .

In bringing this Work before the public, the Author feels that it is scarcely necessary to make any lengthened observations on the reasons which have induced him to prepare it. Everybody is familiar with the great value of "ready reckoners" in commercial life, in the saving of time, and the relief of the mind, enabling one to see at a glance results which in many instances would involve a considerable amount of work, and necessarily mental labour to obtain. Such a one is the present Work, though differing very materially in character from an ordinary commercial "ready reckoner." The chief object here is to place before the Textile Manufacturer and Designer a collection of patterns arranged, classified, and indexed in such a manner that the Work will be to him not merely what the "ready reckoner" is to the merchant or clerk, but a constant book of reference, from which he can extract matter, and by rearrangement and combinations produce a never-ending variety of patterns, and apply them to the fabrics he is manufacturing.

The Author is not so vain as to suppose that in this Work he is placing before the Manufacturers or Designers of Textile Fabrics any patterns which they could not produce equally as well, but he has some hopes that the arrangement, classification, and indexing of the designs, as well as the exposition of the principles upon which they are made, will effect such a saving of time and mental labour as will repay the purchaser for the small outlay. Of the value of those principles it need only be said with reference to the present Work, that from the first conception of such a book in the mind of the Author to the date of issue to the public, less than eight months have elapsed, although the Author has during the greater part of that time had to attend to his official duties in the school with which he has the honour to be connected.

In going through the press a few mistakes have crept into the Work, but these are of the almost inevitable kind, and such as any practical man will detect at sight, and the Author feels bound to express to the printers his satisfaction at the great care they have taken to avoid them.

In conclusion, the Author must express his gratitude to the large body of subscribers, which includes nearly all the leading firms in every branch of Textile Manufactures in the United Kingdom, for the liberal manner in which they have come forward, and before the Work is ready for issue placed it almost beyond financial risk.

That all subscribers and future purchasers of this Work may find that their confidence has not been misplaced, is the earnest wish of

THOS. R. ASHENHURST.

BRADFORD,

August 20th, 1881.

CONTENTS.

									PAGE
Introduction	...	...	...	...	...	...	...	...	5
Patterns upon 3 ends commence at	...	...	...	...	...	...	...	...	13
Ditto	4	„	„	...	...	...	...	...	13
Ditto	5	„	„	...	...	...	...	...	13
Ditto	6	„	„	...	...	...	...	...	14
Ditto	7	„	„	...	...	...	...	...	16
Ditto	8	„	„	...	...	...	...	...	18
Ditto	9	„	„	...	...	...	...	...	24
Ditto	10	„	„	...	...	...	...	...	39
Ditto	11	„	„	...	...	...	...	...	63
Ditto	12	„	„	...	...	...	...	...	93
Ditto	14	„	„	...	...	...	...	...	126
Ditto	16	„	„	...	...	...	...	...	155

INTRODUCTION.

THE use of Designs for Textile Fabrics, and the method of working from them, as well the putting them upon design or point paper, is so well understood, and as the subject of previous treatises has been so fully dealt with, that it will not be necessary to deal with it here. But as this work may probably fall into the hands of young men who have not had the advantage of a thorough training, it will be necessary to explain, not only upon what method the designs are arranged in the work, but the general principles upon which they are produced. This will be best and easiest done if we proceed upon what is known as the doctrine of combinations.

Combinations are generally taken as denoting the alterations or variations of any number of objects, quantities, sounds, &c., in all possible ways. Thus, one object will admit of no combinations, and two objects will admit of one combination only, provided they are simple objects, but it has been shown that two square objects, each divided diagonally into two colours, may be arranged in sixty-four different ways, these sixty-four ways meaning of course that they are placed in sixty-four different positions in relation to each other.

As we increase the number of objects we increase, not only the number of combinations capable of being produced, but also the number of modes in which the combinations may be made, and the number of positions in which they may be placed in relation to each other; thus, of a series of objects given for combination we may combine them in twos, threes, or any number together.

Assuming, first, that we are combining the objects in twos, it has already been said that two objects admit of but one combination. Three objects will admit of three combinations: thus, $a b$, $a c$, $b c$. Four objects will admit of six combinations: thus, $a b$, $a c$, $a d$, $b c$, $b d$, and $c d$. In the same manner five objects will admit of ten combinations; six objects of fifteen combinations, and so on. From this it appears that the number of combinations of two objects together proceeds according to

the triangular numbers, 1, 3, 6, 10, 15, 21, 28, 36, &c., which will be produced by the continued addition of the arithmetical series, 0, 1, 2, 3, 4, 5, 6, 7, 8, &c.; or, to put it in a general formula, if n be the number of objects, and the combinations are in twos it will be $\frac{n \times (n - 1)}{2}$

thus, if $n = 2$ it will be $\frac{2 \times 1}{2} = 1$, and

if $n = 4$ it will be $\frac{4 \times 3}{2} = 6$, and

if $n = 6$ it will be $\frac{6 \times 5}{2} = 15$, and so on.

We may go a great deal further, because the combination of twos is the very simplest form, we may combine in threes, fours, fives, or any number.

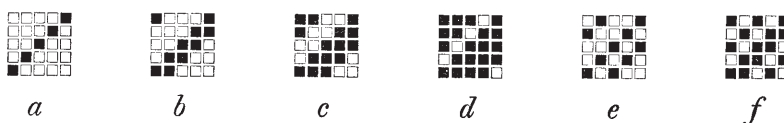
We will suppose we are about to combine in threes. Three objects will admit of but one order of combination as $a b c$. Four objects will admit of four orders of combination, as $a b c$, $a b d$, $a c d$, $b c d$, and five objects will admit of ten combinations, as $a b c$, $a b d$, $a b e$, $a c d$, $a c e$, $a d e$, $b c d$, $b c e$, $b d e$, and $c d e$. This will be found to proceed according to the pyramidal numbers, which are formed by the continued addition of the triangular numbers of the previous case, as 1, 3, 6, 10, 15, 21, &c.

Again assuming n to be the number of objects to be combined in threes, the general formula will be $\frac{n}{1} \times \frac{n-1}{2} \times \frac{n-2}{3}$ or put in a more simple manner, say if $n = 3$ it will be $\frac{3 \times 2 \times 1}{1 \times 2 \times 3} = 1$, or if $n = 4$ it will be $\frac{4 \times 3 \times 2 \times 1}{1 \times 2 \times 3} = 4$ or $\frac{4 \times 3 \times 2}{6} = 4$ and if $n = 5$ it will be $\frac{5 \times 4 \times 3}{6} = 10$, and if $n = 6$ $\frac{6 \times 5 \times 4}{6} = 20$.

In the same manner we may proceed to lay down a formula for any number of objects combined by any number at one time. Thus, if we wish to combine in fours, and the number of objects $n = 6$, it will be $\frac{6 \times 5 \times 4 \times 3}{1 \times 2 \times 3 \times 4} = 15$. Or if we wish to proceed still further and ascertain the number of combinations we can produce from a given number of objects in series of 2, 3, 4, &c., find the number of combinations which can be produced in each series by these formulæ, and add all the series together. For example, taking six objects to find the total number of possible combinations in series of 2, 3 and 4, first, to combine in twos $\frac{6 \times 5}{2} = 15$, second, in threes $\frac{6 \times 5 \times 4}{6} = 20$, third, in fours $\frac{6 \times 5 \times 4 \times 3}{2 \times 3 \times 4} = 15$, and $15 + 20 + 15 = 50$ combinations capable of being produced with six objects.

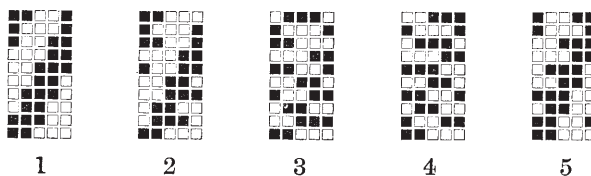
So far we are dealing with combinations of simple objects, but we may now begin to apply it to textile patterns, and we shall find that although the combination of simple objects gives a wide scope, the combination of patterns gives a much wider.

We will take a limited number of ends, say five, find how many of the patterns known as simple twills can be produced upon that number, and enter into the combination of these simple patterns with each other. With those five ends we could produce the following simple twills.



which are six in number. Then with those six combined in twos, we can produce $\frac{6 \times 5}{2} = 15$ new patterns, and combined in threes, we can produce $\frac{6 \times 5 \times 4}{6} = 20$ more new patterns, or combined in fours we can produce $\frac{6 \times 5 \times 4 \times 3}{2 \times 3 \times 4} = 15$ more again.

But it is very obvious that this does not represent all the patterns we can produce, because those six patterns are not only capable of being combined together, but they are capable of being combined in five different positions in relation to each other. For example, we will select two from the six, say *b* and *c*, and combine them together in those five different positions, thus

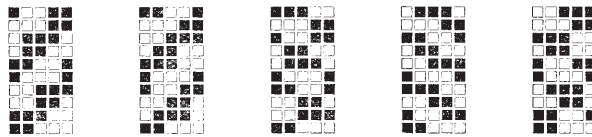


then, if in the combination of those five designs in twos we can produce fifteen new designs; and we can again combine them in five different positions in relation to each other, we can produce seventy-five new patterns from those six by combination in twos. And, further, if we combine them in threes we can place each of the three in five different positions in relation to the other two, and so multiply the number of combinations of three by five times, and so on.

Up to this point we have seen that we can produce a vast number of new patterns, but we need not stop here; in fact, we are only just entering the field. Hitherto we have been dealing with them as simple twills, but each of those twills is capable of re-arrangement; that is, each of the five ends may be placed in a different position in relation to the rest, or, upon the principle of permutation.

We may look at this principle of permutation, and see how far it will carry us. Without entering too deeply into subject, we may proceed upon the general theorem that the number of changes that can be made with any number of objects taken together, without considering them as taken a certain number at a time, will be expressed by the continuous product $n \times (n - 1) \times (n - 2) \times (n - 3) \times (n - 4)$, and so on; or, if we take a certain number of objects of one kind and a certain number of another kind to find the number of changes which can be made, it will be found by the series $1 \times 2 \times 3 \times 4 \times 5 \times 6$, &c., up to the number of objects given.

From this it will be seen that by the doctrine of combination and permutation an infinite number of patterns may be produced, because not only may we combine together the simple twills which form the first basis, as it may be termed, but we may combine the rearranged twills with one another, and with each separate set of rearrangements. For example, if we again take the same two patterns as before, rearrange each one in what is commonly known as satin order, and then combine them, we produce patterns which bear no resemblance whatever to the previous combinations, thus



Although we have now gone a considerable length in the production of new patterns by rearrangement and combination,—and it must be distinctly understood that each rearrangement, apart from any combination, produces a new pattern in itself,—yet we have not reached the limit. Instead of combining two complete patterns we may combine certain portions of each, and so again produce new effects. For example, we may take any two patterns and take either alternate ends of each, or alternate picks of each, and combine them together; and we may so combine them, not only in one position in relation to each other, but in as many positions as the pattern contains ends or picks.

Such is the principle upon which patterns may be produced, and, practically, there is no limit to the extent and variety which may be produced upon a given number of ends. We must now look at the other side of the subject. It will be obvious that, if these principles be carried out in their entirety, a great many of the patterns would be similar to each other, or, in fact, the same pattern inverted. Such is the case in the patterns here given: they have been selected for that purpose. If we look at the two series of five each just given, it will be seen that in reality there are only three different patterns; the other two are simply inverted ones, so that some judgment and discrimination must be used to prevent repetition.

Such is the principle upon which the patterns in this work have been produced. We must now look at the arrangement of them, the mode of indexing, and consider its utility in practice.

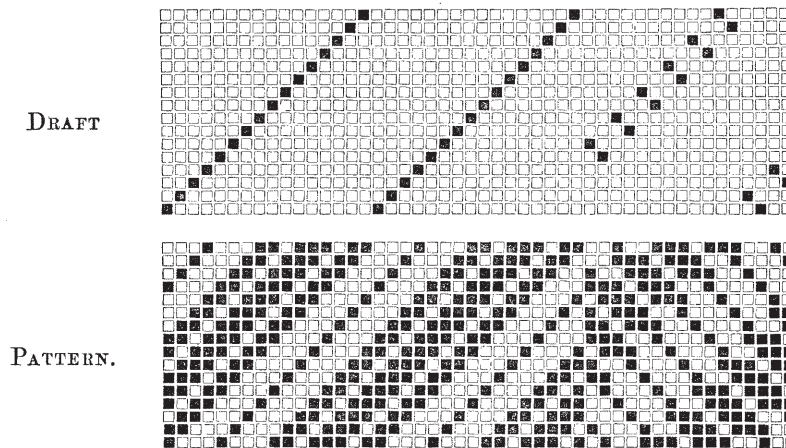
On turning to the commencement of the patterns upon any given number of ends,—say twelve ends, page 93,—it will be seen that, first comes a series of ordinary twills; these are the basis of all that follow upon that number of ends. Following this series are others, each series commencing with a given draft. The whole of these are simply rearrangements of the first series, and the draft is the indication of the order of rearrangement. Attached to each design are the numbers of all the designs which are rearrangements of the same thing; for instance, taking the pattern No. 3461, all the numbers accompanying that design, viz., 3516, 3561, 3664, 3715, and 3863, are rearrangements of the design 3516, and consequently will work in the same healds as that design; and, as the draft at the commencement of each series is the indication of the order of rearrangement, it necessarily follows that if the warp threads be drawn through the healds in the order shown in that draft, and the healds be made to work in such order as would produce the pattern from which the required pattern is formed, that the desired result would be obtained.

It is not necessary here to enter into the details of the arrangement and meaning of the drafts further than has already been done, as the whole subject is fully explained in my “Treatise on Weaving and Designing of Textile Fabrics,” pages 166 to 174 (2nd Edition). Only one little matter needs to be explained, viz., that in many instances the reference numbers are placed at the side instead of at the foot of the design, in such cases, when used for purposes of combination, the side at which the numbers are placed becomes the foot of the design, or, in other words, the ends become the picks and *vice versa*.

Now as to the production of other patterns from those given in the Work. In addition to the combinations of which we have been speaking, patterns may be combined so as to form stripe, check, or other effects, and it is to facilitate this combination that the method of indexing the designs in this work

has been adopted. Suppose it is desired to produce a stripe pattern upon 16 healds, and it is desired that pattern 5670 shall form the ground, and some other pattern shall form the stripe, say, for instance, pattern 6074, and it is determined that the size of the stripe shall be as under, viz.: 32 ends of pattern 5670, and 16 ends of pattern 6074, as shown below.

Then all we have to do is to draw the warp which is to form pattern 5670 through the healds in straight order from front to back, and that portion which is to form pattern 6074 through the healds in the order given in the draft at the commencement of the series to which number 6074 belongs. Cut the cards, or arrange in whatever way may be necessary to raise the healds, in such order as with the straight draft will produce the pattern 5670, and the mere arrangement of the draft will cause the pattern 6074 to be produced where it is required; or, to use the language of the trade, the draft is a combination of straight and broken draft, as given at the commencement of the series to which the broken pattern belongs, and the straight twill is the card cutting, pegging, or heald-raising plan



It will be at once seen that the stripes may be varied to an unlimited extent, and not merely two different patterns used, but immense variety may be produced by combining more than two patterns in the same design, and at the same time not increase the number of healds employed.

We now come to deal with another and very important branch of the subject, viz., the application of the patterns to fabrics. As has been shown, the mere making of a large number of designs is not a difficult matter; in fact, the greatest difficulty may be more truly said to be the selection of the best for the fabric, and the purposes to which they are to be applied. The skill of the designer or manufacturer is not proved by the number of different patterns or designs he can produce, but more by his application of them to the fabric, so as to produce the best effect, and a fabric most suitable for the purpose to which it is to be applied. The question may be asked: What are the principles by which we must be

guided so as to do this most efficiently? That is a question not easily answered. It is not easy to lay down rules which will meet the circumstances of every case, and it is a very difficult matter to lay down general rules which may not in some cases be very misleading. Experience is the best teacher, and whatever rules may be laid down before they can be acted upon with any amount of success must be verified by experience, and that experience frequently brought to bear in the modification of the rule.

The subject of slaying or setting of fabrics, which is dealt with in my Treatise before named, is one which is very closely connected with the application of designs, and their suitability for the fabrics to which they are applied; in fact, they are inseparable from each other. A design when applied to one fabric may be perfect, the same design when applied to another fabric may produce a most unsatisfactory effect, and the difference may be brought about, not only by the difference in the material of which the fabrics are formed, but with the same material it may be brought about by the difference in the relative proportions of warp and weft. We will take for example, a twill which runs at an angle of 45 degrees across the design paper, and in which about equal quantities of warp and weft appear on the surface. In all probability the best effect would be produced if warp and weft are nearly equal in quantity, though in many cases increasing the quantity of either one or the other would not have a detrimental effect.

If we take another in which the twill runs at an angle of, say, 60 degrees up the piece, the best effect would almost certainly be produced by letting the warp preponderate over the weft, and the higher the angle at which the twill runs, the greater (in most cases) will the preponderance of warp over weft require to be.

On the other hand, if the twill runs at an angle of 30 degrees across the piece, the best effect would be produced by having a preponderance of weft, and the lower the angle at which the twill runs the greater must be the preponderance of the weft. The consideration of this subject raises another question when the class of twills of which we are speaking are used in combination; that is, when a stripe or check effect is produced by combining two twills which run at different angles. Whenever that is the case the only safe plan,—and certainly the one which would be most likely to produce the best possible results,—is to construct the fabric as if it was for a twill at an angle of 45 degrees, and let warp and weft be equal in quantity. This, of course, applies more especially to cases where the two twills are very widely different; as, for instance, when one runs nearly vertically and the other nearly horizontally, or say at angles respectively of 60 and 30 degrees. If we are producing stripe effects, where one portion of the twill runs at an angle of 45 degrees and another portion runs nearly vertically,

we may make a variation in the number of ends per inch in each portion by increasing the quantity in that portion which forms the vertical twill. The same expedient may also be resorted to in the case of twills where there is a greater difference in the angle, but the greater the difference and the greater the difficulty of dealing with them.

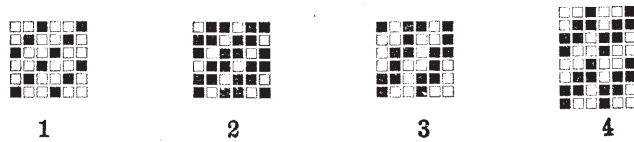
We have again to consider the character of the fabric which it is desired to produce, and the purpose to which it is to be applied ; whether it is to be useful, to withstand a great amount of friction, or wear and tear ; whether it is required to be purely ornamental, or whether it is to serve some useful purpose, and at the same time to be ornamented in a pleasing manner. Whatever purpose it is intended to serve attention should be paid to the suitability of the design for that purpose ; if strength is required, a pattern must be selected in which the threads are interwoven sufficiently to give the requisite strength and firmness. If bulk and weight are required, a pattern must be selected which will permit the warp and weft to embed into each other sufficiently. If only ornament is required, without any of the other conditions being necessarily present, then patterns with just sufficient elaboration and character may be selected. Again, in many cases it is of the utmost importance to have regard to the processes of finishing the fabric will have to go through after being woven, as the effect may be improved or marred considerably by those processes ; more especially is this the case in fabrics made from wool. If the pattern is required to be much seen, then it must be of a very clear decided character, otherwise it may be lost in milling-up of the material in finishing ; but if decision of character in the pattern is not of great importance, then the object must be to select patterns which will facilitate the interlocking of the fibres in the process of milling.

Nothing but great care and strict attention will enable the designer or manufacturer to overcome all the difficulties he has to contend with, but care and attention, combined with the teachings of experience, will enable him at all times to select those patterns which will best answer the purposes to which they are to be applied.

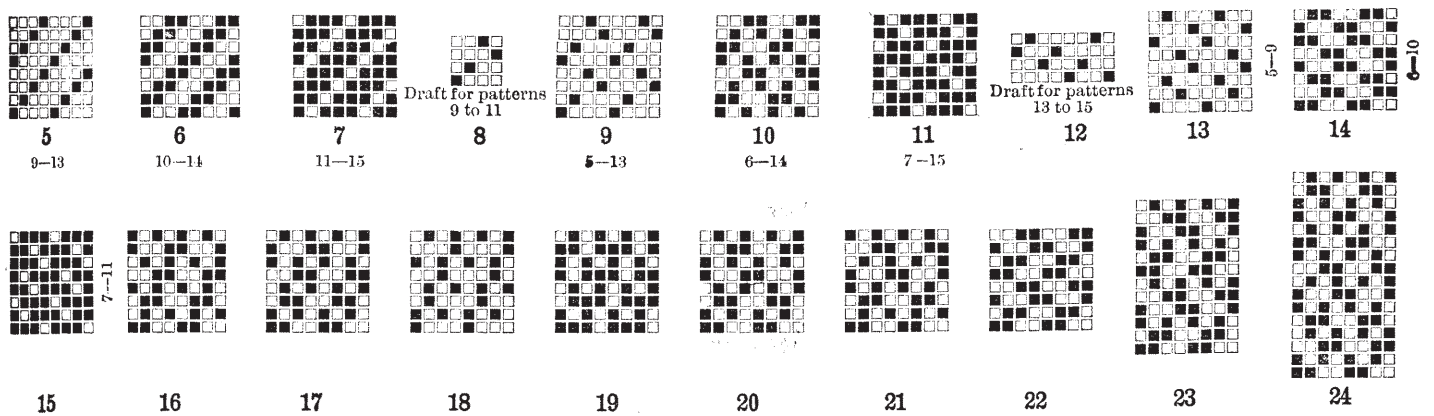
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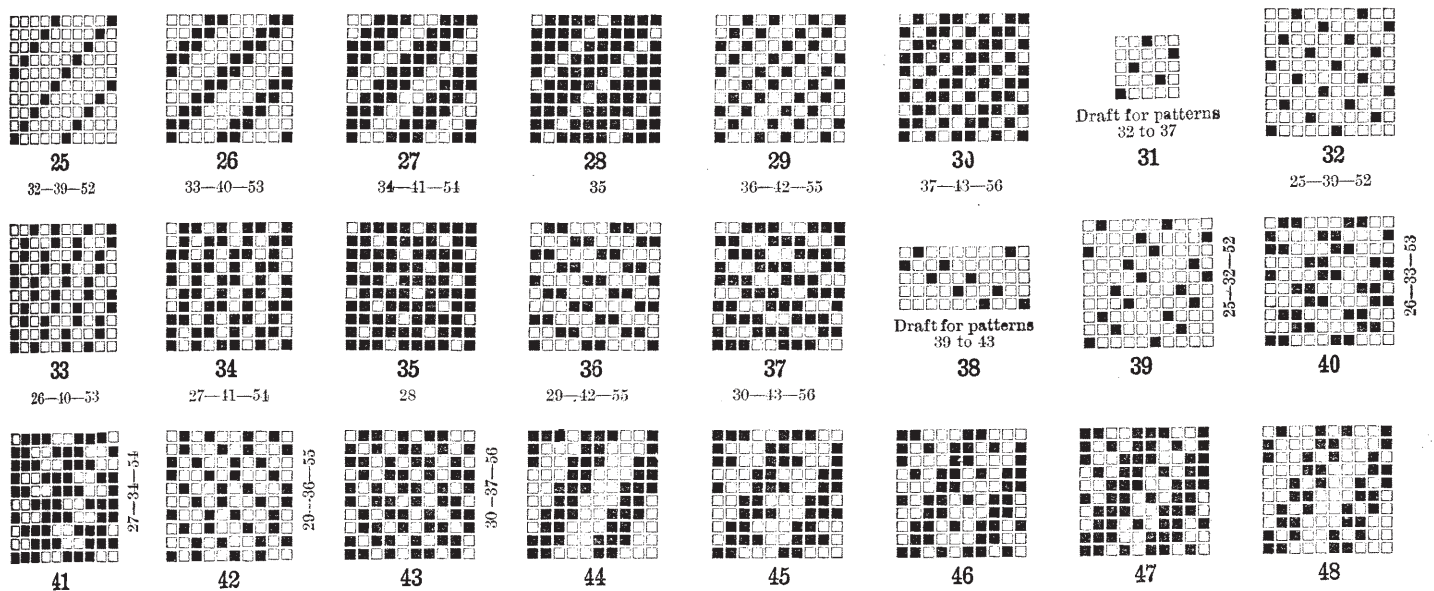
PATTERNS UPON 3 ENDS—twice repeated



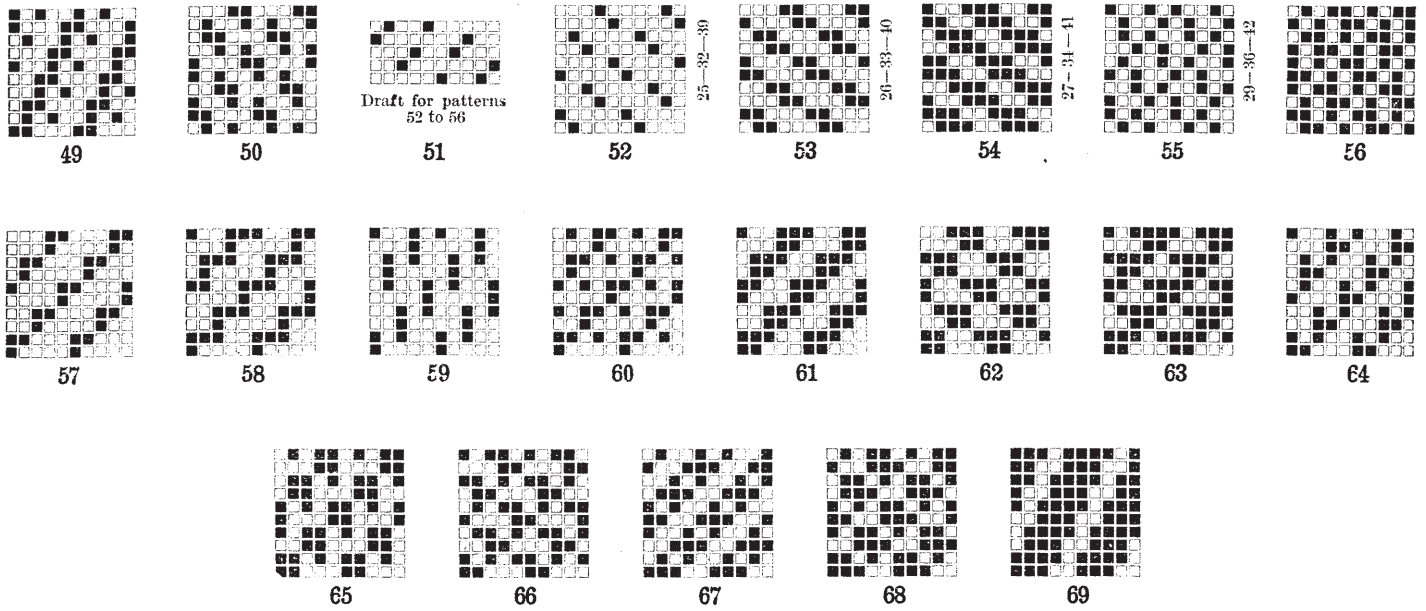
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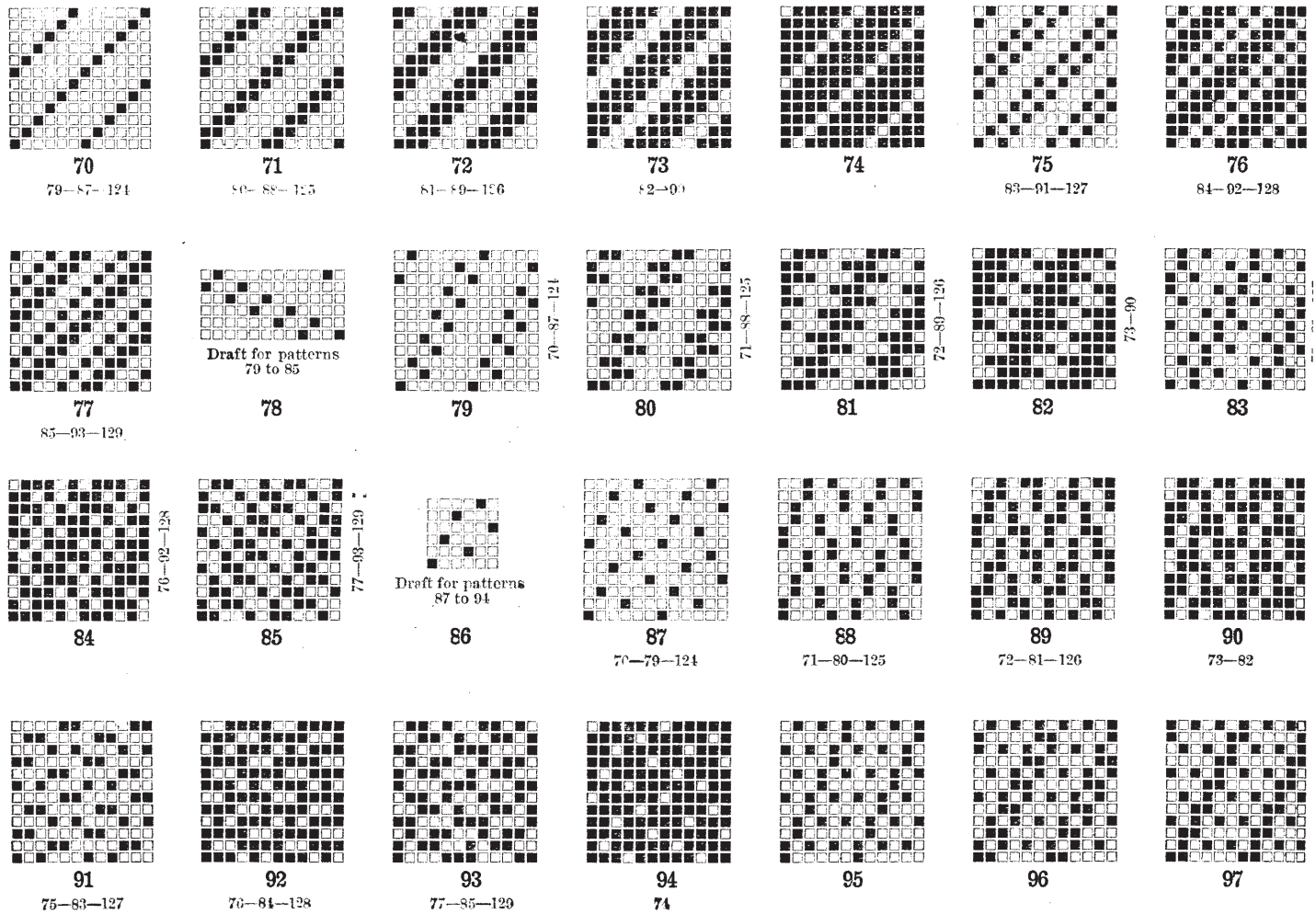
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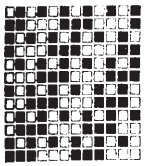
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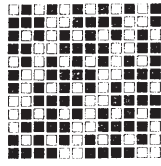
PATTERNS UPON 6 ENDS—twice repeated.



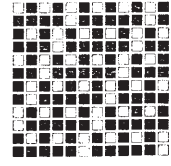
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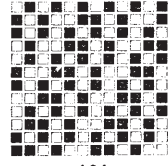
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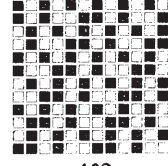
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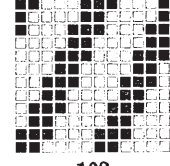
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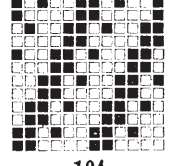
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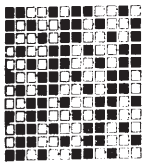
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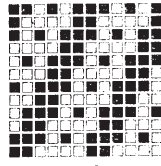
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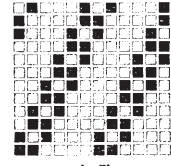
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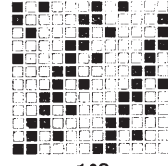
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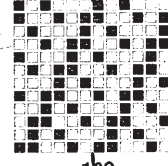
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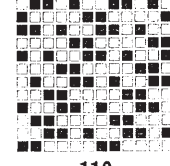
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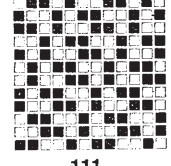
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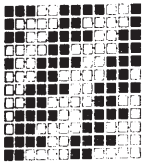
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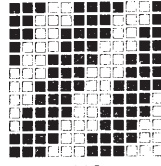
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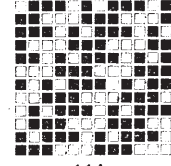
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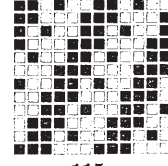
112



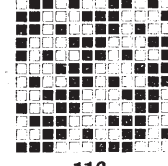
113



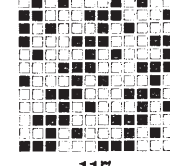
114



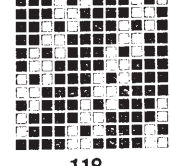
115



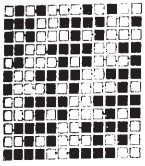
116



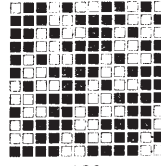
117



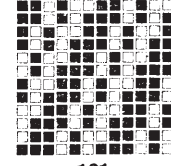
118



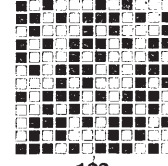
119



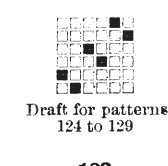
120



121

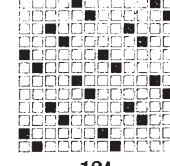


122



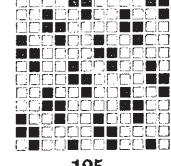
Draft for patterns
124 to 129

123



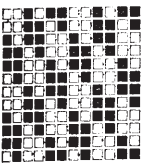
124

70-79-87



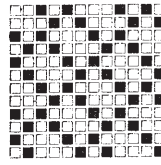
125

71-80-88



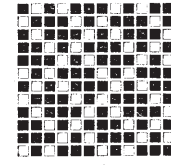
126

72-81-89



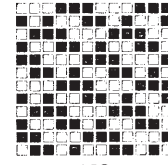
127

75-83-91



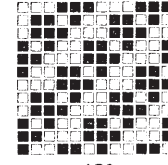
128

76-84-92

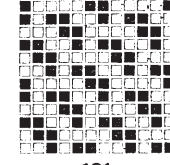


129

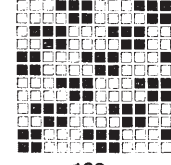
77-85-93



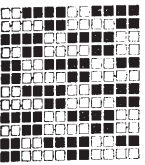
130



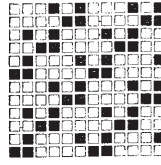
131



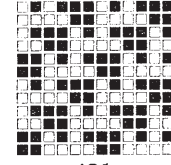
132



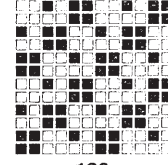
133



134



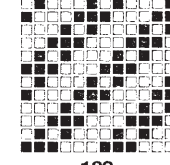
135



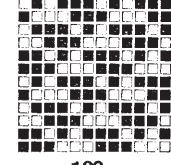
136



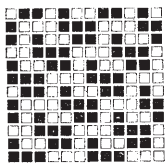
137



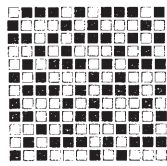
138



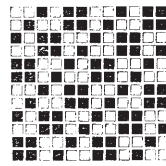
139



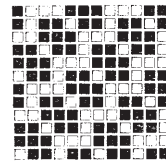
140



141

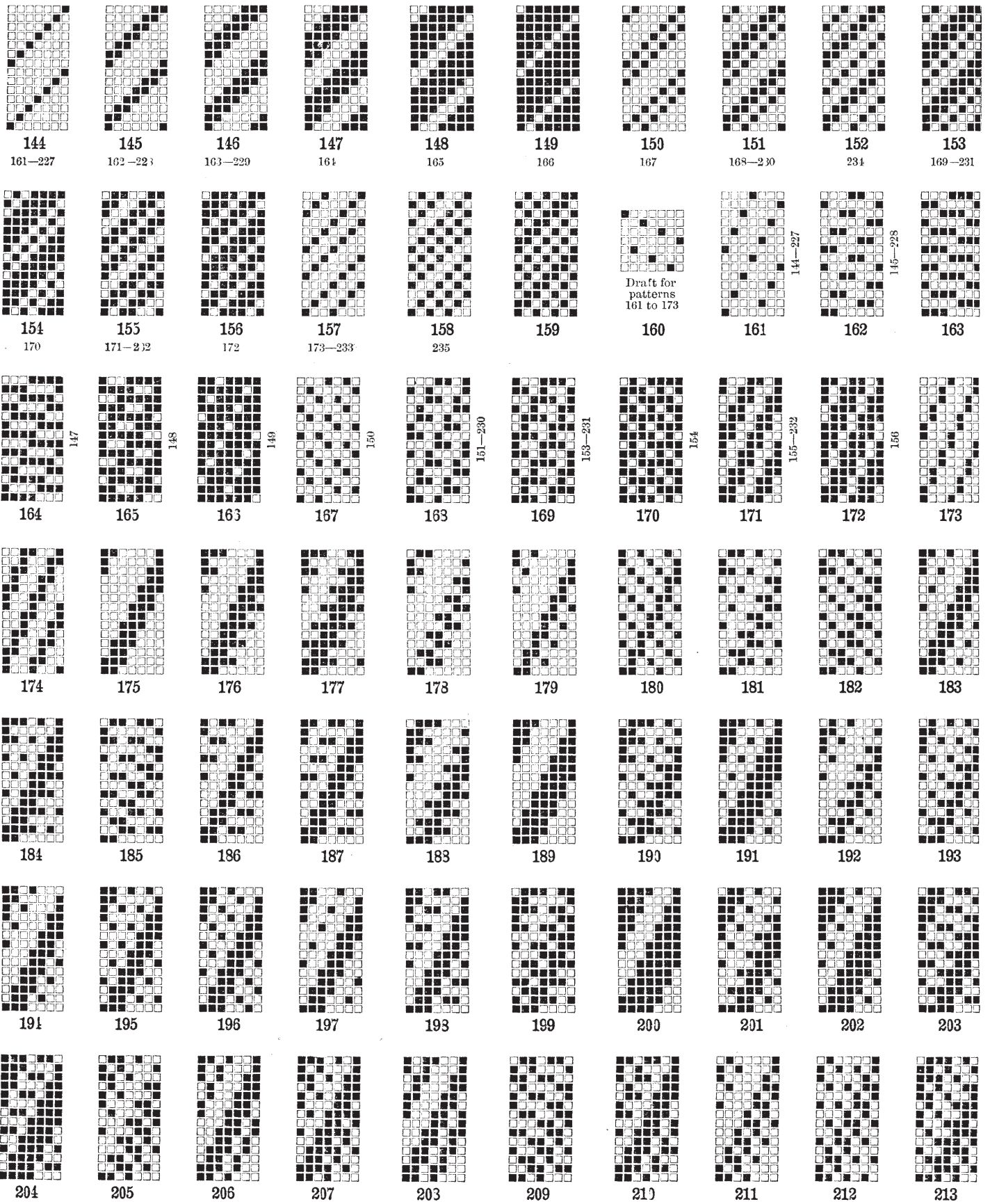


142

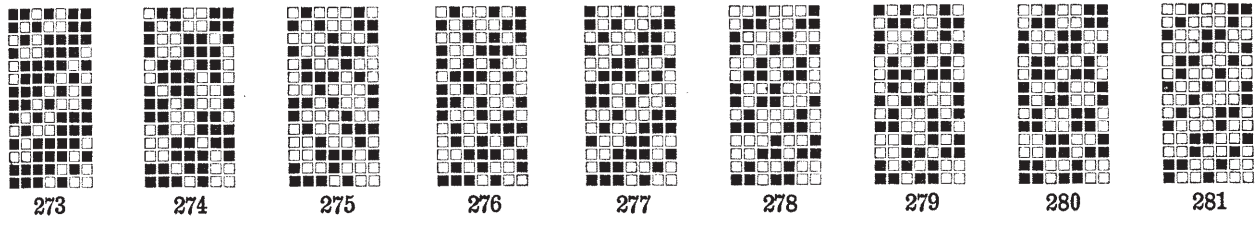
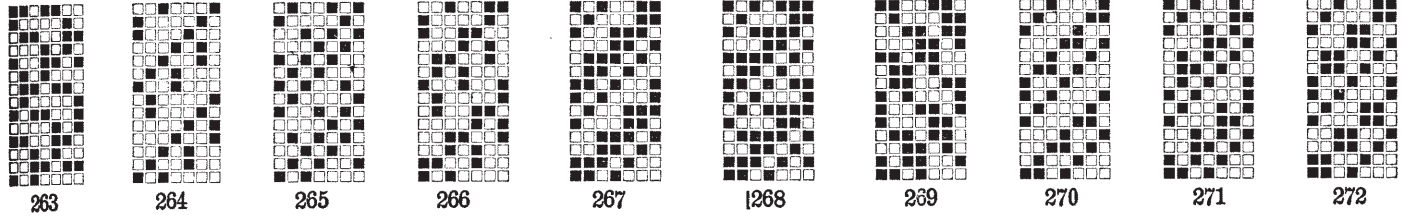
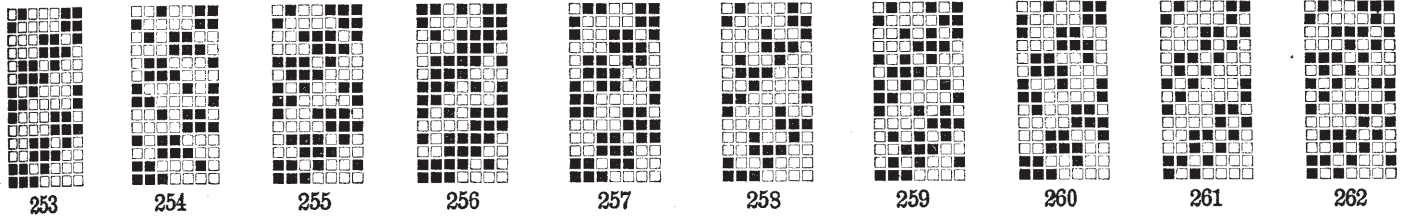
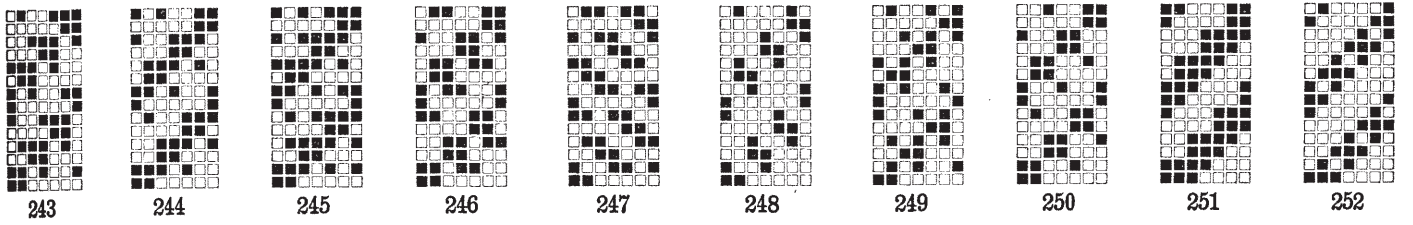
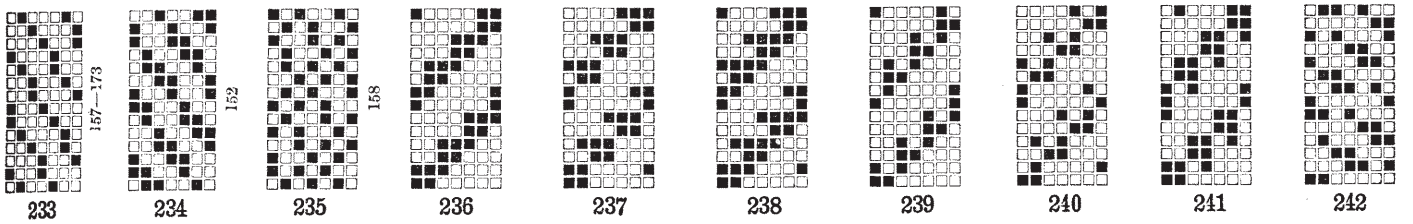
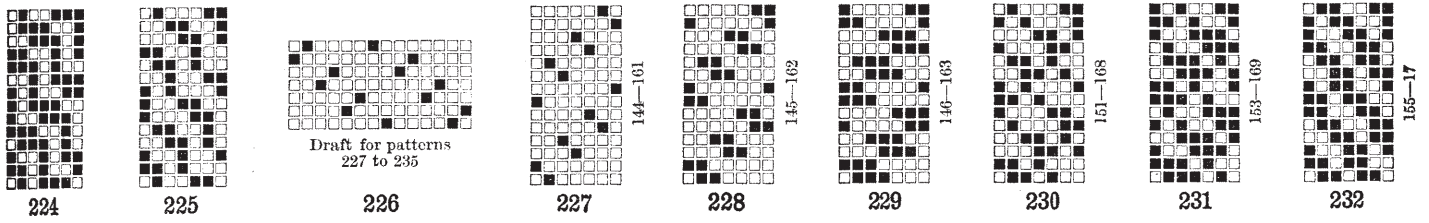
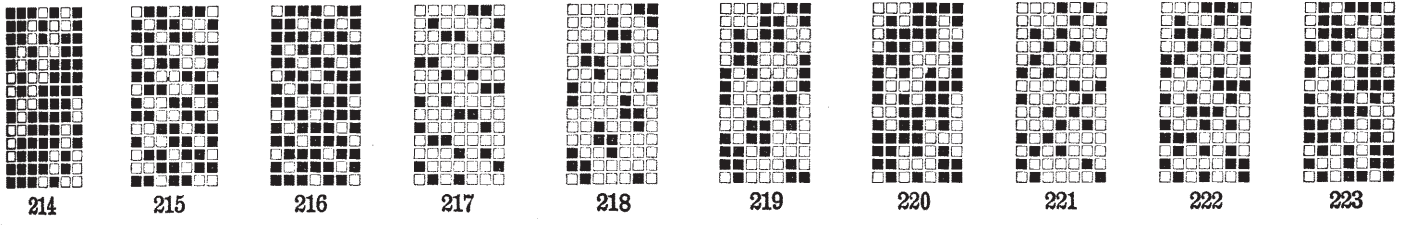


143

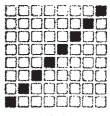
PATTERNS UPON 7 ENDS



PATTERNS UPON 7 ENDS—(continued)

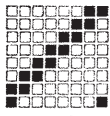


PATTERNS UPON 8 ENDS



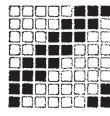
282

307-326-530



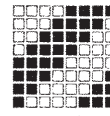
283

308-327-531



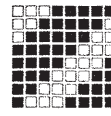
284

309-328-532



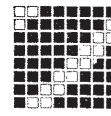
285

310-329-533



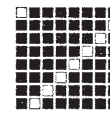
286

311-330



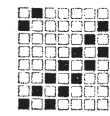
287

312-331



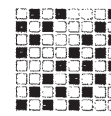
288

321-332



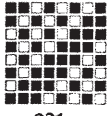
289

313-333-534



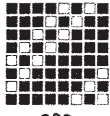
290

314-334-535



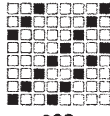
291

315-335-536



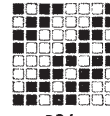
292

336-537



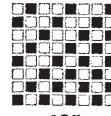
293

316-337-538



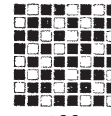
294

317-338-539



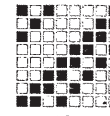
295

318-339-540



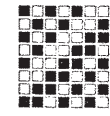
296

340-541



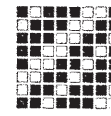
297

319-341-542



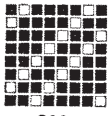
298

321-342-543



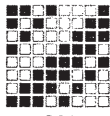
299

322-343-545



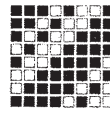
300

345-544



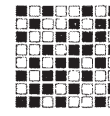
301

323-316-546



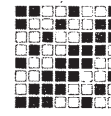
302

347-547



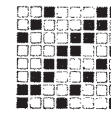
303

321-348-548



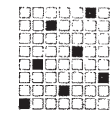
304

344



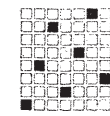
305

Draft for patterns 307 to 324



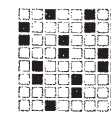
306

282-326-530

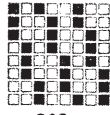


307

283-327-531

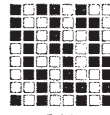


308



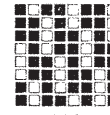
309

284-328-532



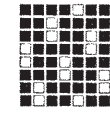
310

285-329-533



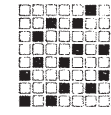
311

286-331



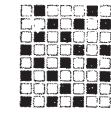
312

267-341



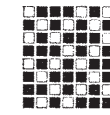
313

289-333-534



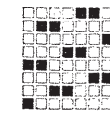
314

290-334-535



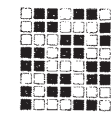
315

291-335-536



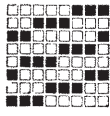
316

293-337-533



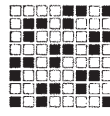
317

294-338-539



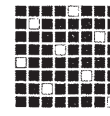
318

295-339-540



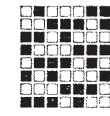
319

297-341-542



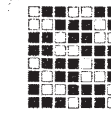
320

288-332



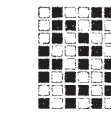
321

298-342-543



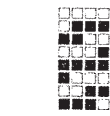
322

299-343-545



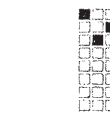
323

301-346-546



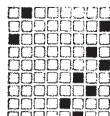
324

303-348-548



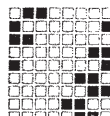
325

Draft for patterns 326 to 343



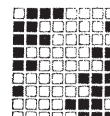
326

282-307-530



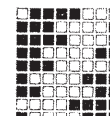
327

283-308-531



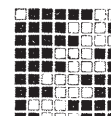
328

284-309-532



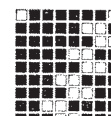
329

285-310-533



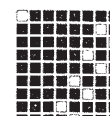
330

286-311



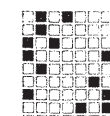
331

287-312



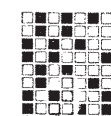
332

288-320



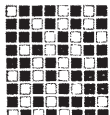
333

289-313-534



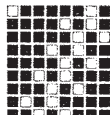
334

290-314-535



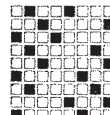
335

291-315-536



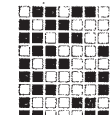
336

292-537



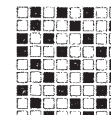
337

293-316-538



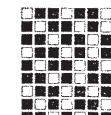
338

294-317-539



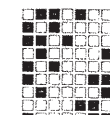
339

295-318-540



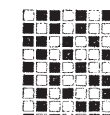
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296-541



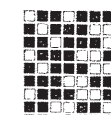
341

297-319-542



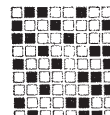
342

298-321-543



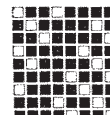
343

299-322-545



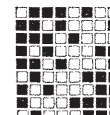
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305



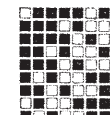
345

300-544



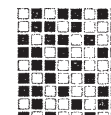
346

301-323-546



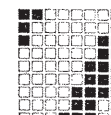
347

302-547

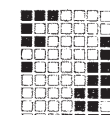


348

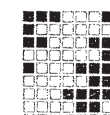
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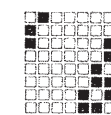
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350

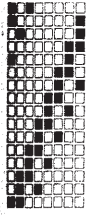


351

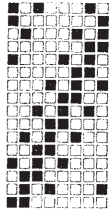


352

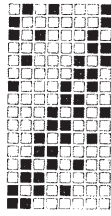
PATTERNS UPON 8 ENDS—(continued)



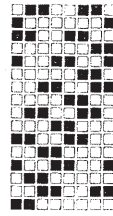
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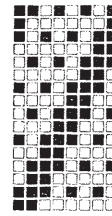
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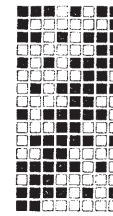
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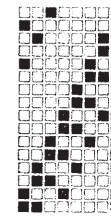
356



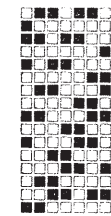
357



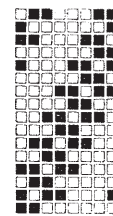
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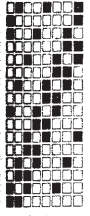
359



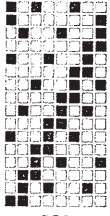
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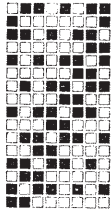
361



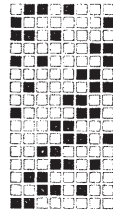
362



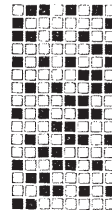
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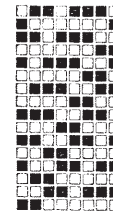
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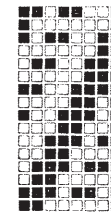
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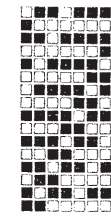
366



367



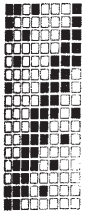
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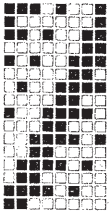
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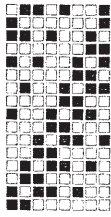
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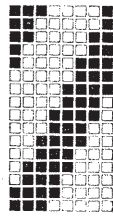
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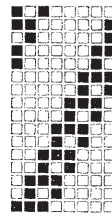
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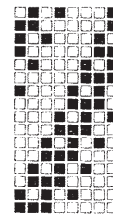
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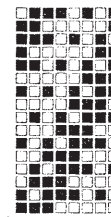
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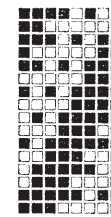
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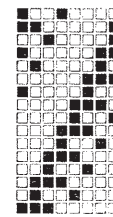
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377



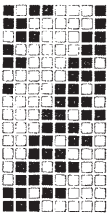
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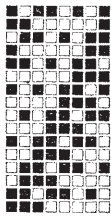
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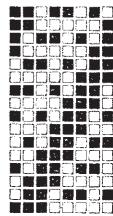
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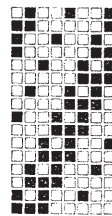
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382



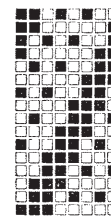
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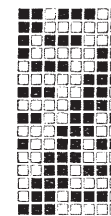
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385



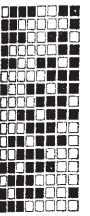
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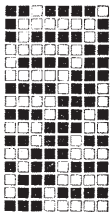
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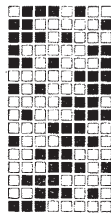
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389



390



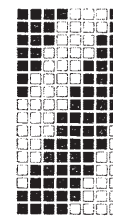
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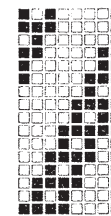
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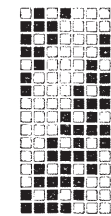
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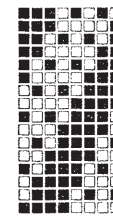
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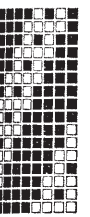
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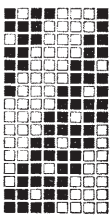
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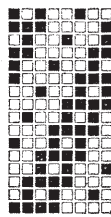
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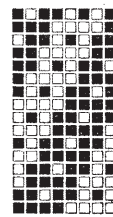
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399



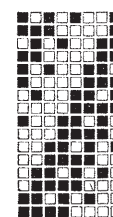
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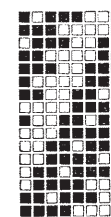
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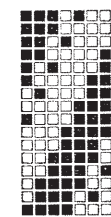
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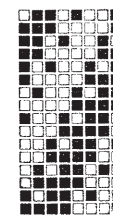
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404

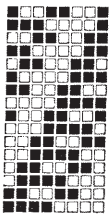


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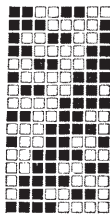


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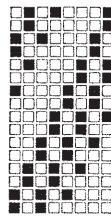
PATTERNS UPON 8 ENDS—(continued)



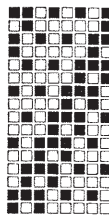
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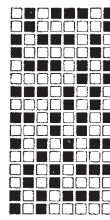
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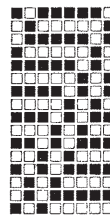
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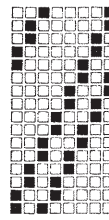
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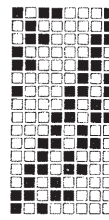
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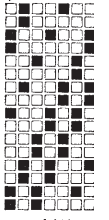
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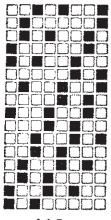
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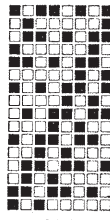
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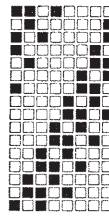
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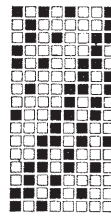
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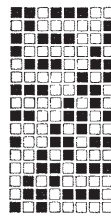
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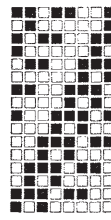
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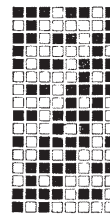
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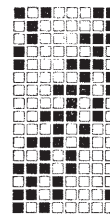
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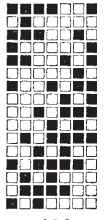
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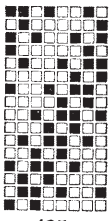
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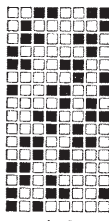
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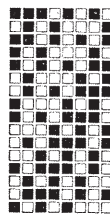
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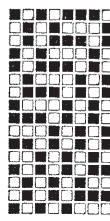
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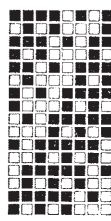
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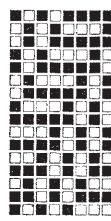
427



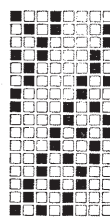
428 ✓



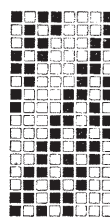
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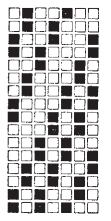
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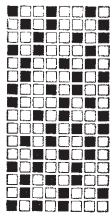
431



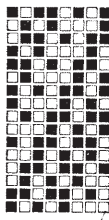
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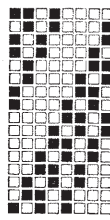
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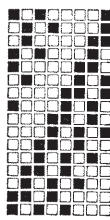
434



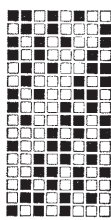
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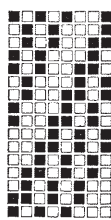
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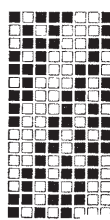
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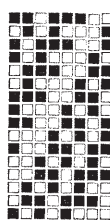
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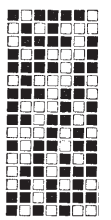
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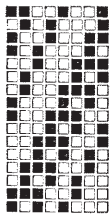
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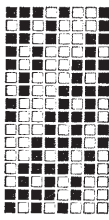
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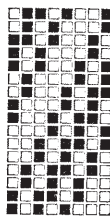
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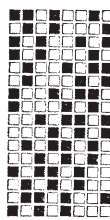
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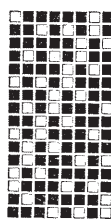
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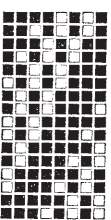
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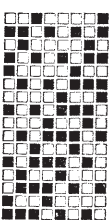
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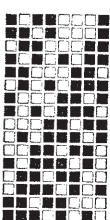
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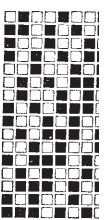
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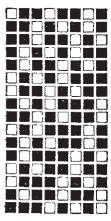
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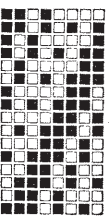
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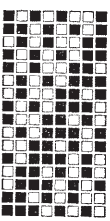
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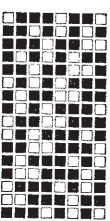
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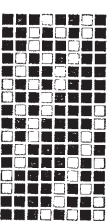
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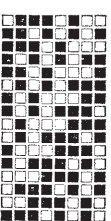
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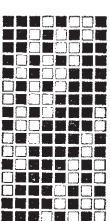
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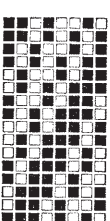
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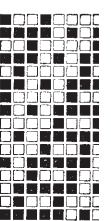
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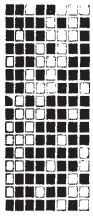


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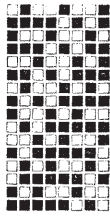


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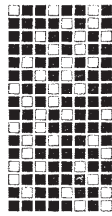
PATTERNS UPON 8 ENDS—(continued)



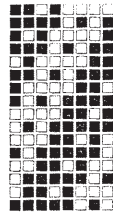
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462



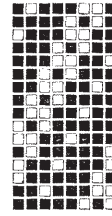
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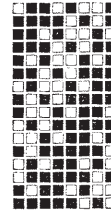
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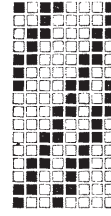
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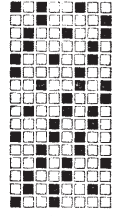
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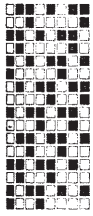
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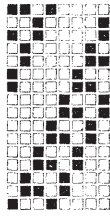
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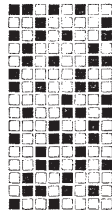
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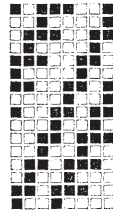
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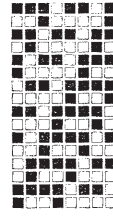
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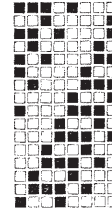
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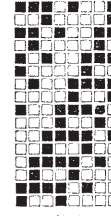
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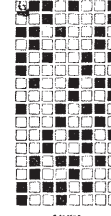
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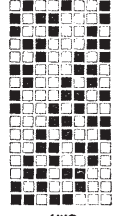
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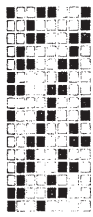
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477



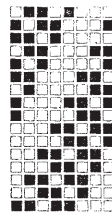
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479



480



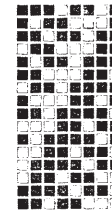
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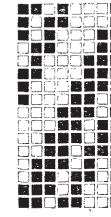
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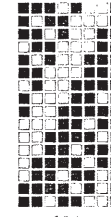
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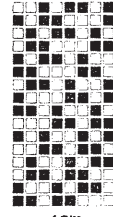
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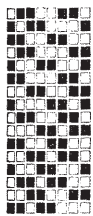
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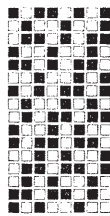
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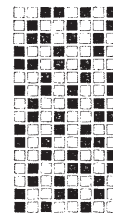
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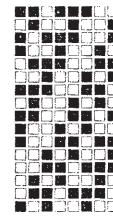
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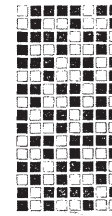
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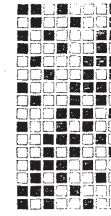
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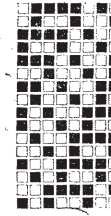
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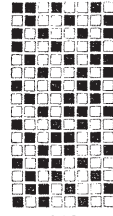
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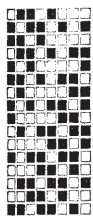
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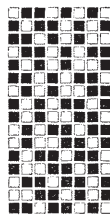
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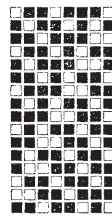
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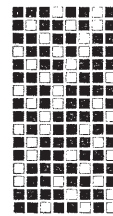
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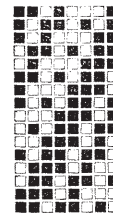
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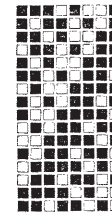
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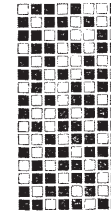
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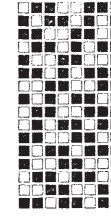
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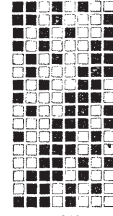
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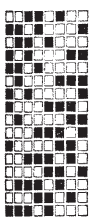
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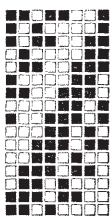
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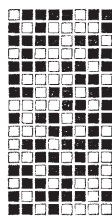
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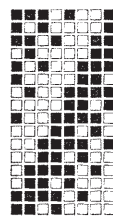
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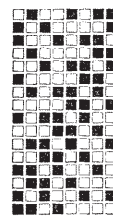
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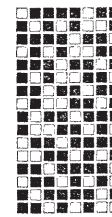
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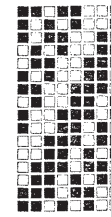
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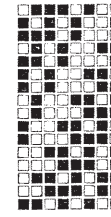
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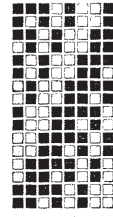
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512

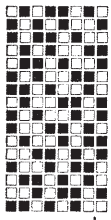


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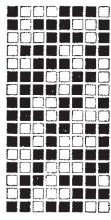


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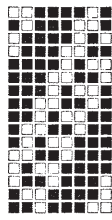
PATTERNS UPON 8 ENDS—(continued)



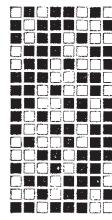
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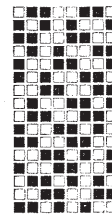
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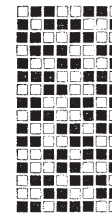
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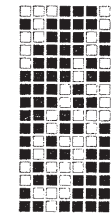
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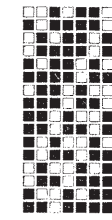
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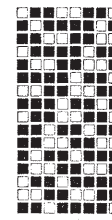
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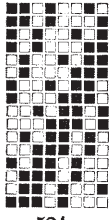
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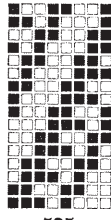
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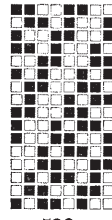
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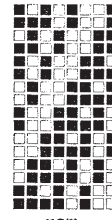
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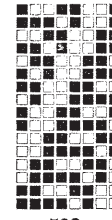
525



526



527

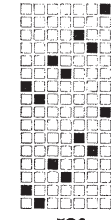


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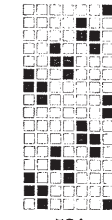


Draft for patterns
530 to 548

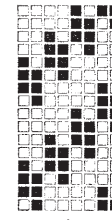
529



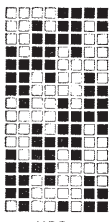
282—307—326



383—308—327

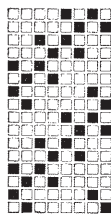


284—309—328



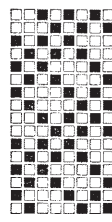
533

285—310—329



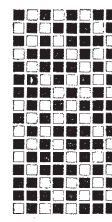
534

289—313—333



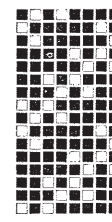
535

290—314—334



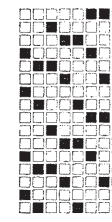
536

291—315—335



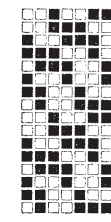
537

292—336



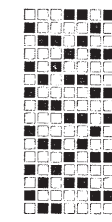
538

293—316—337



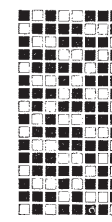
539

294—317—338



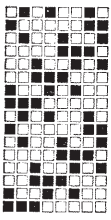
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295—318—339



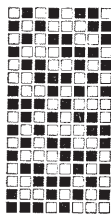
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296—340



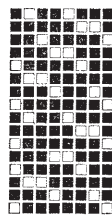
542

297—319—341



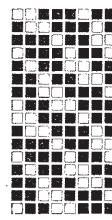
543

298—321—342



544

300—345



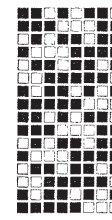
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299—322—343



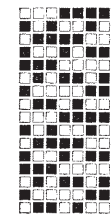
546

301—323—346



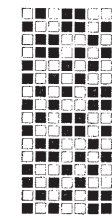
547

302—347



548

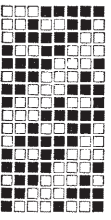
303—324—348



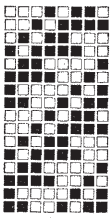
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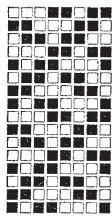
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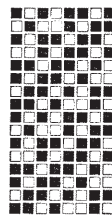
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552



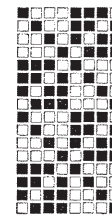
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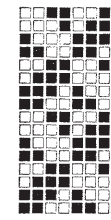
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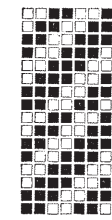
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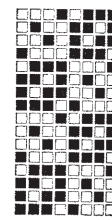
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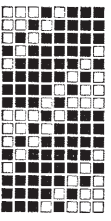
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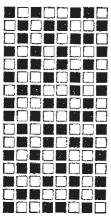
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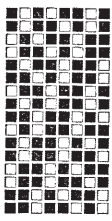
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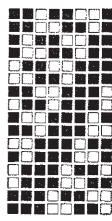
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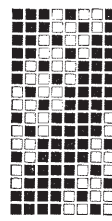
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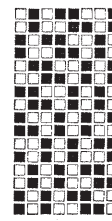
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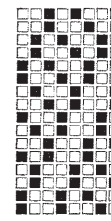
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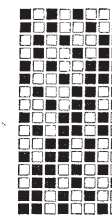
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565



566

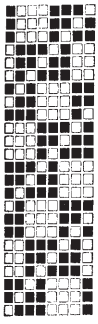


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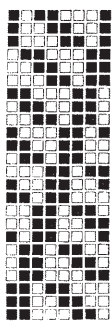


568

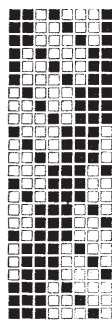
PATTERNS UPON 8 ENDS—(continued)



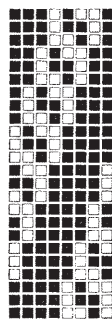
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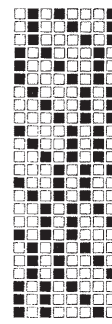
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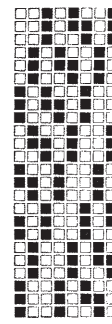
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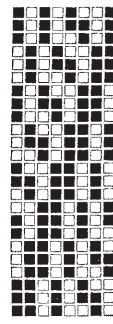
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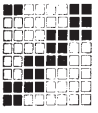
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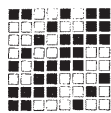
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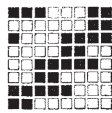
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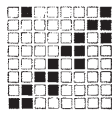
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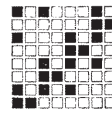
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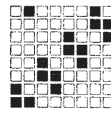
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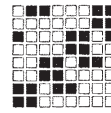
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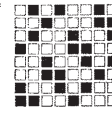
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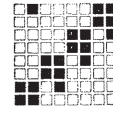
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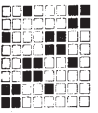
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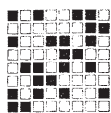
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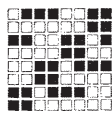
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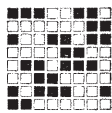
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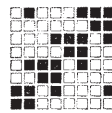
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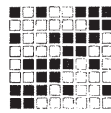
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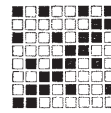
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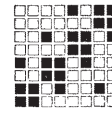
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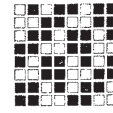
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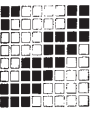
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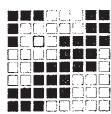
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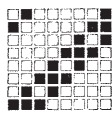
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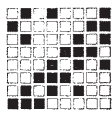
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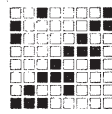
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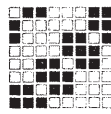
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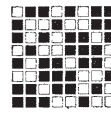
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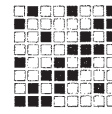
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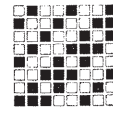
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600



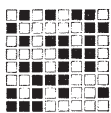
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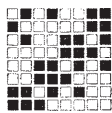
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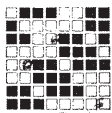
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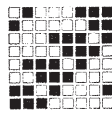
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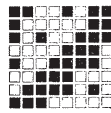
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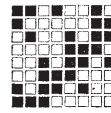
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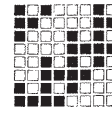
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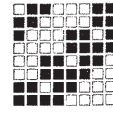
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609



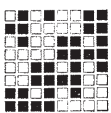
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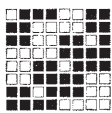
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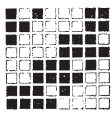
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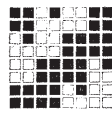
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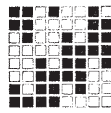
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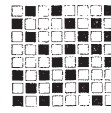
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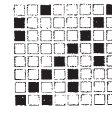
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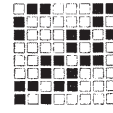
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618



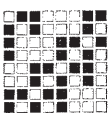
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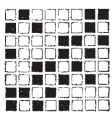
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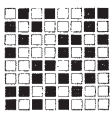
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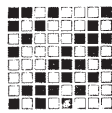
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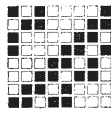
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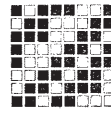
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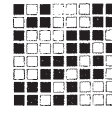
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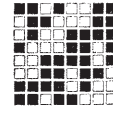
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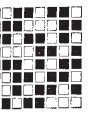
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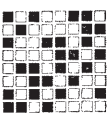
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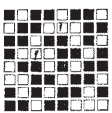
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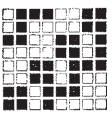
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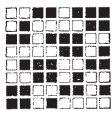
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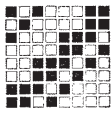
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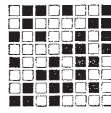
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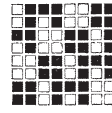
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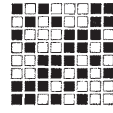
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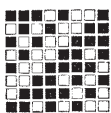
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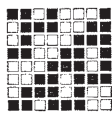
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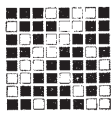
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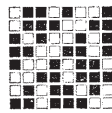
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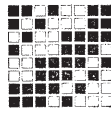
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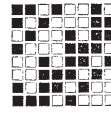
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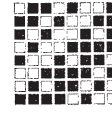
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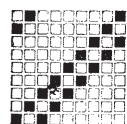


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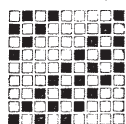
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PATTERNS UPON 9 ENDS



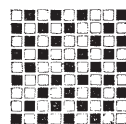
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683-714-1169-1181



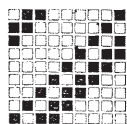
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684-715-1182



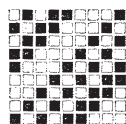
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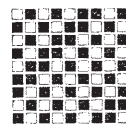
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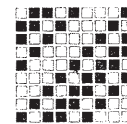
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687-718-1185



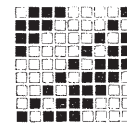
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688-719-1186



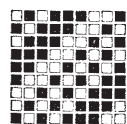
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689-720-1187



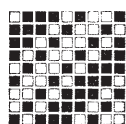
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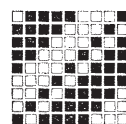
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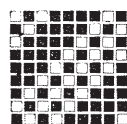
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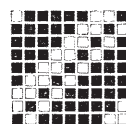
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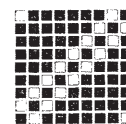
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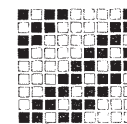
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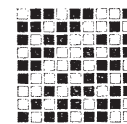
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696-1194



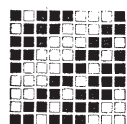
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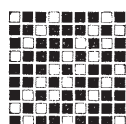
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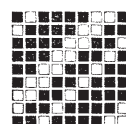
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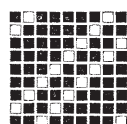
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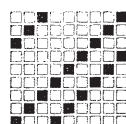
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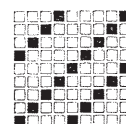
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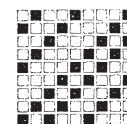
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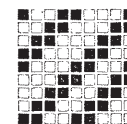
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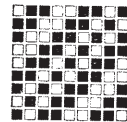
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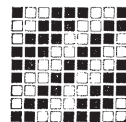
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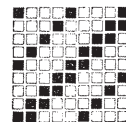
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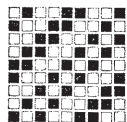
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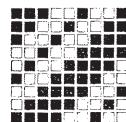
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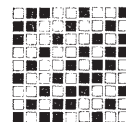
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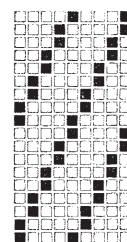
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1209



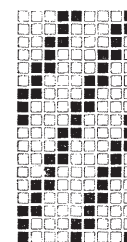
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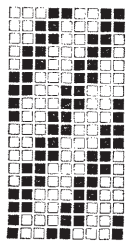
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647-715-1182

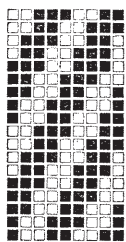


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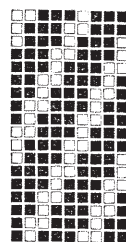
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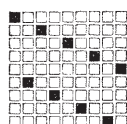
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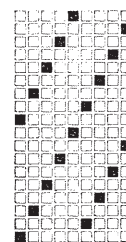


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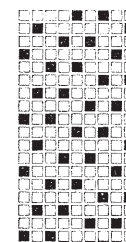


Draft for patterns
682 to

681

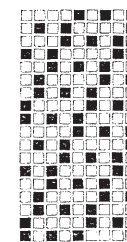


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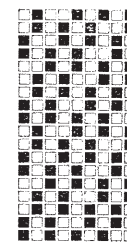


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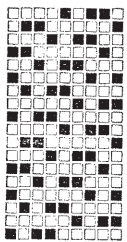
649-714-1169-1181



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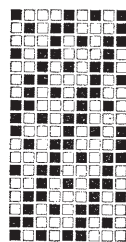


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686

649-717-1170-1184



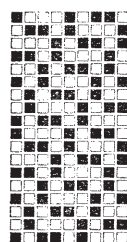
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650-718-1185



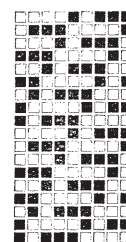
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651-719-1186



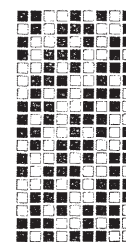
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652-720-1187



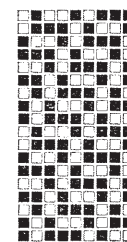
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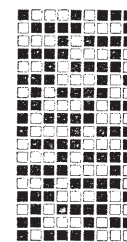
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654-722-1189



692

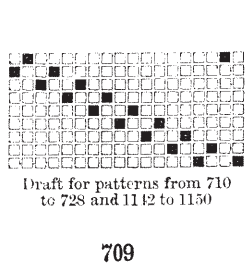
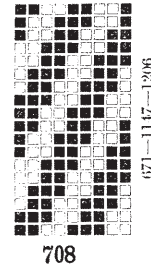
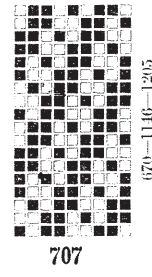
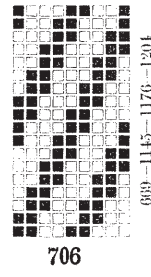
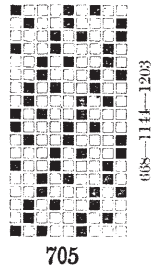
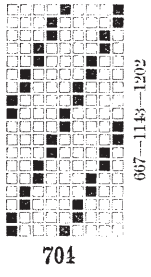
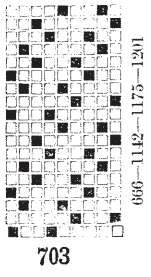
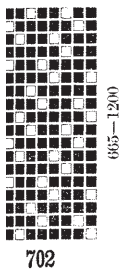
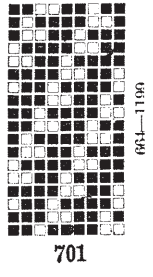
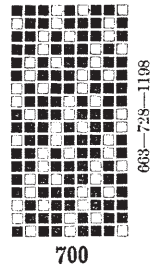
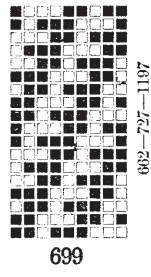
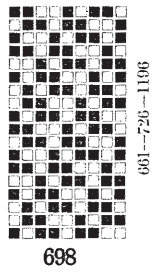
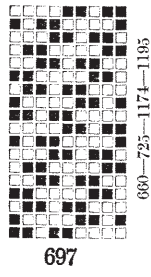
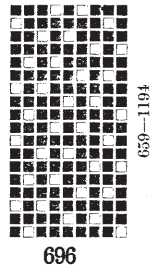
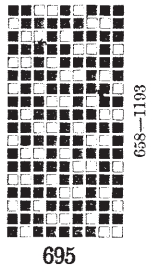
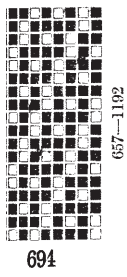
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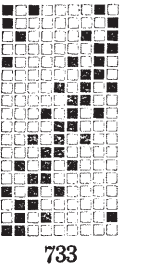
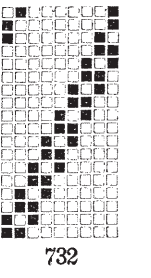
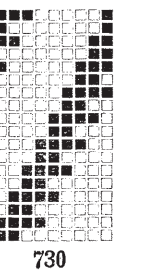
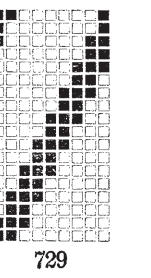
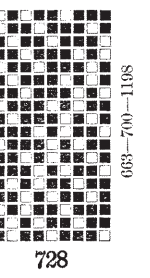
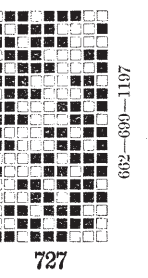
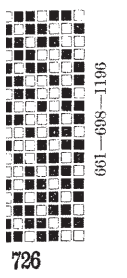
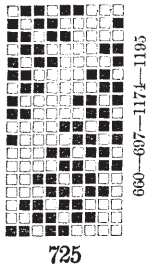
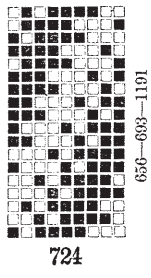
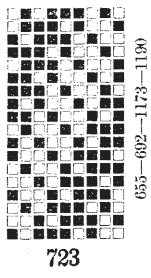
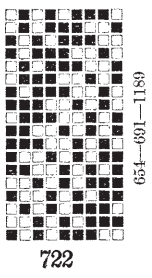
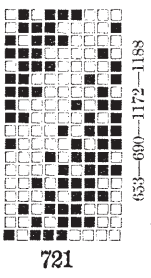
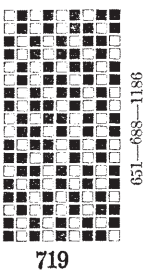
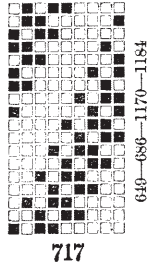
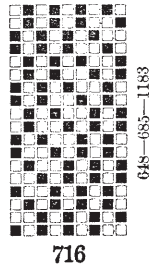
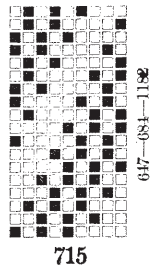
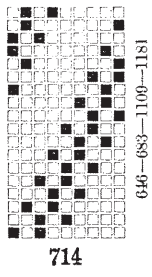
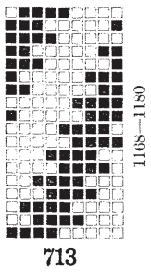
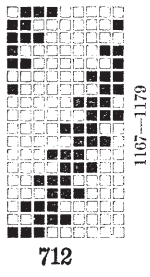
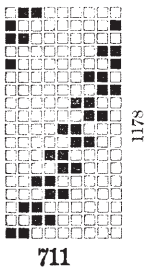
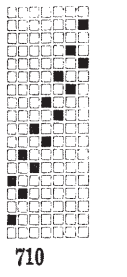
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656-724-1191

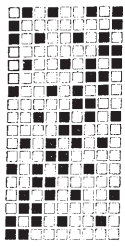
PATTERNS UPON 9 ENDS--(continued)



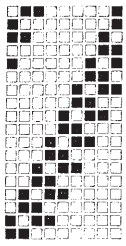
Patterns 710 to 713 are based upon ordinary Twills.



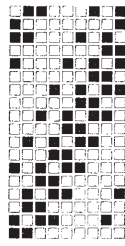
PATTERNS UPON 9 ENDS—(continued)



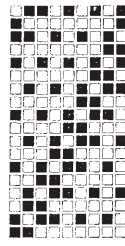
734



735



736



737



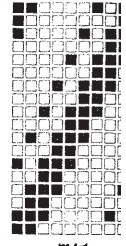
738



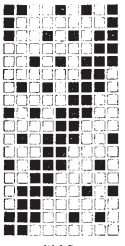
739



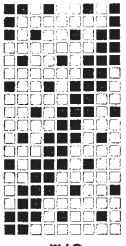
740



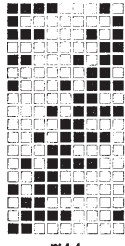
741



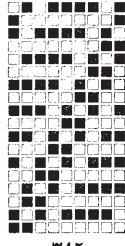
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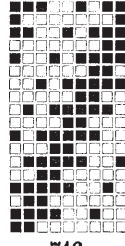
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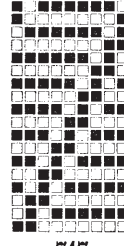
744



745



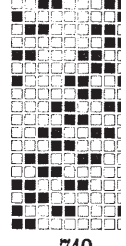
746



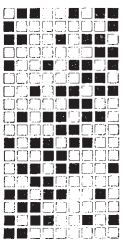
747



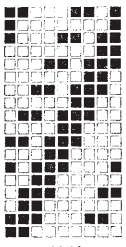
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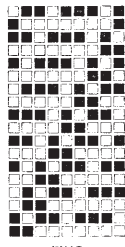
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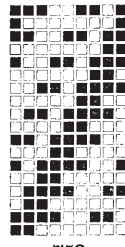
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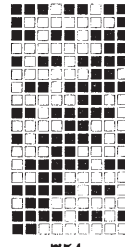
751



752



753



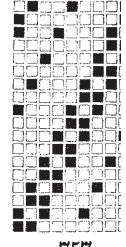
754



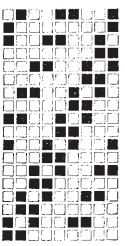
755



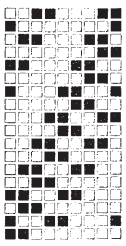
756



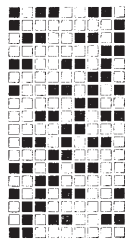
757



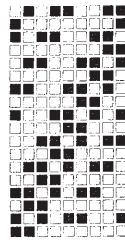
758



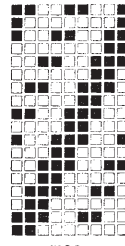
759



760



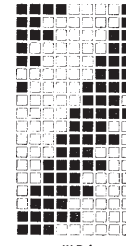
761



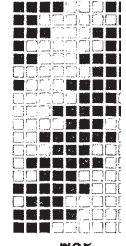
762



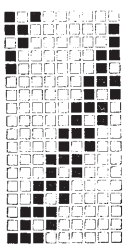
763



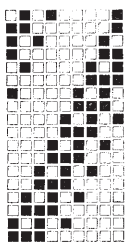
764



765



766



767



768



769



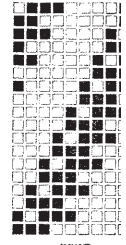
770



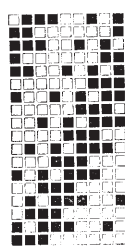
771



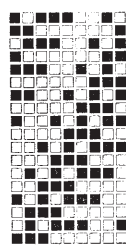
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773



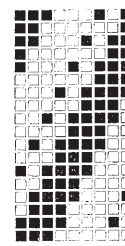
774



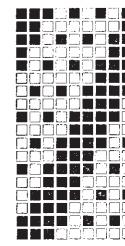
775



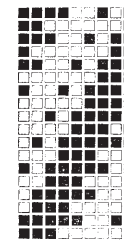
776



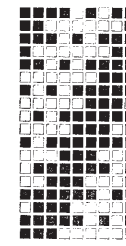
777



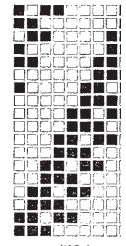
778



779

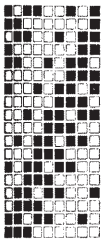


780

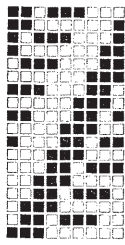


781

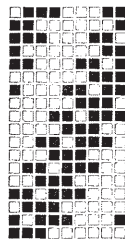
PATTERNS UPON 9 ENDS—(continued)



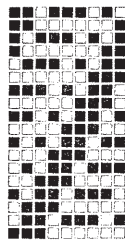
782



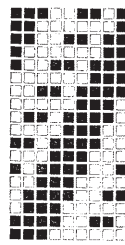
783



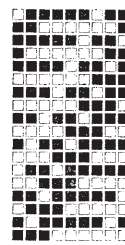
784



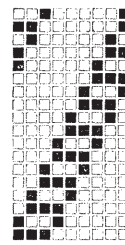
785



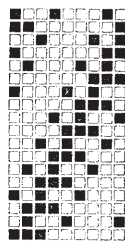
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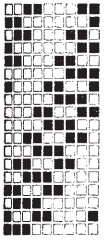
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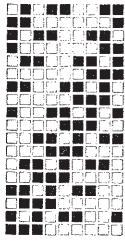
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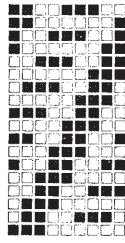
789



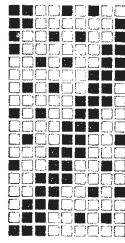
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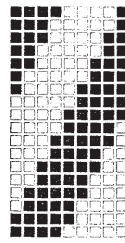
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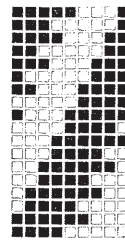
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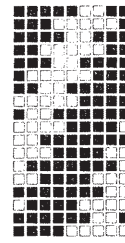
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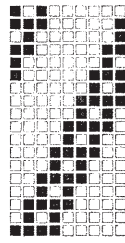
794



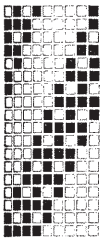
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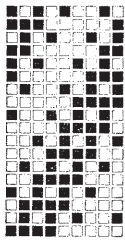
796



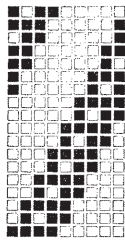
797



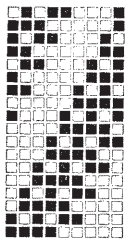
798



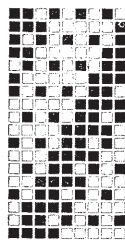
799



800



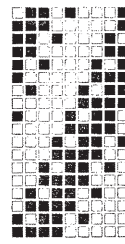
801



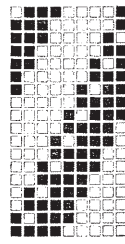
802



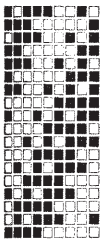
803



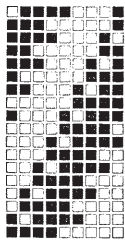
804



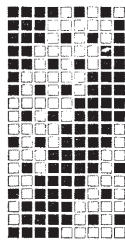
805



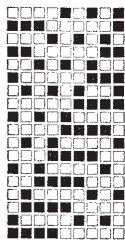
806



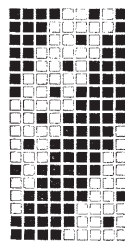
807



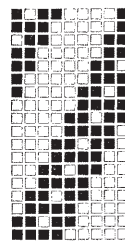
808



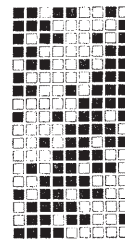
809



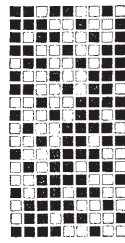
810



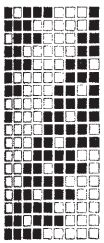
811



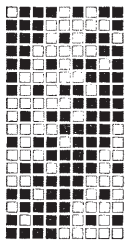
812



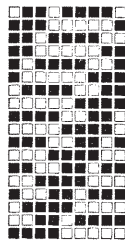
813



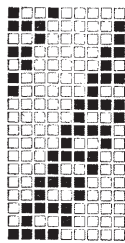
814



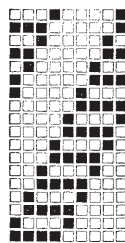
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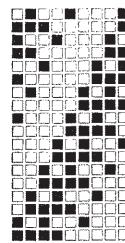
816



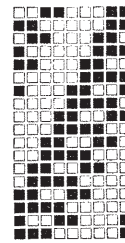
817



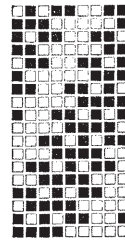
818



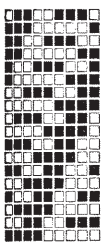
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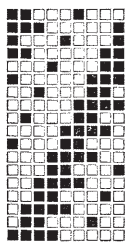
820



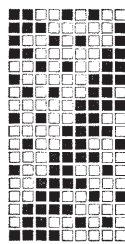
821



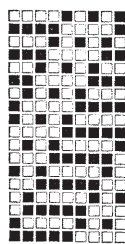
822



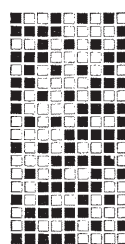
823



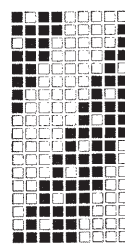
824



825



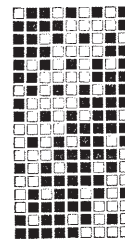
826



827

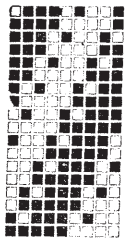


828

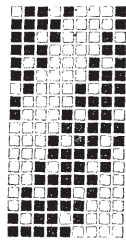


829

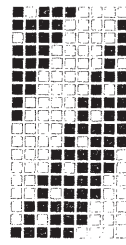
PATTERNS UPON 9 ENDS—(continued)



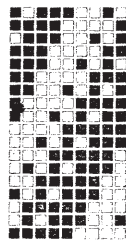
830



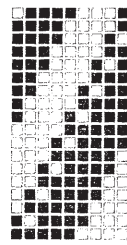
831



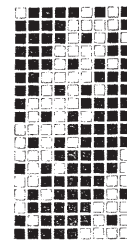
832



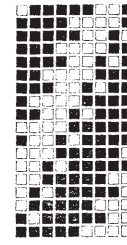
833



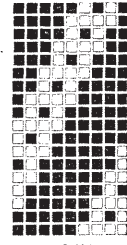
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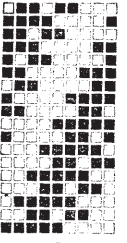
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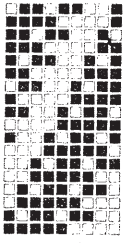
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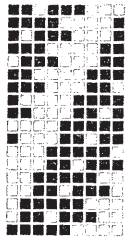
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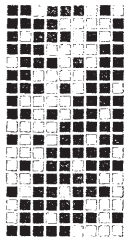
838



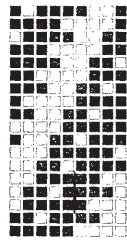
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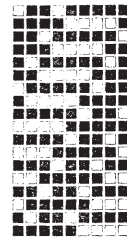
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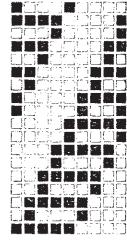
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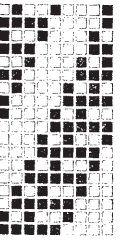
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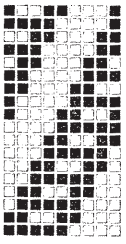
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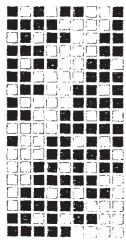
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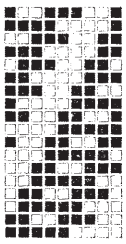
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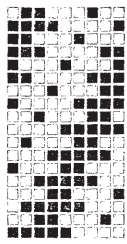
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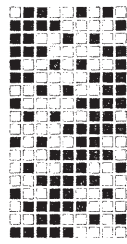
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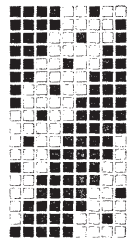
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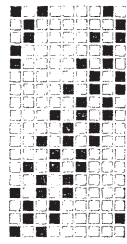
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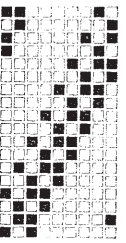
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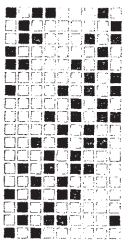
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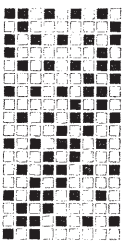
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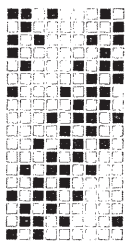
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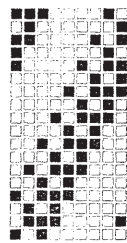
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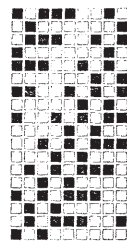
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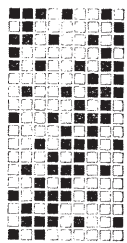
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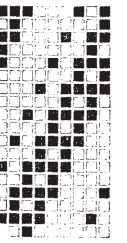
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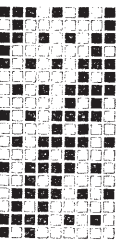
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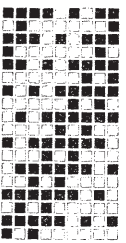
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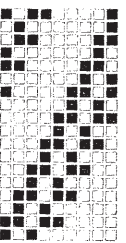
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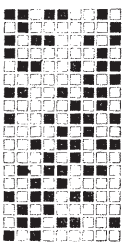
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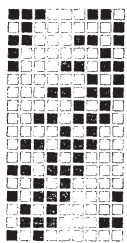
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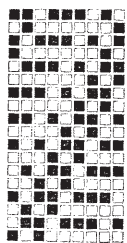
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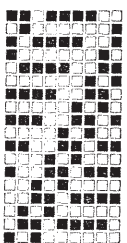
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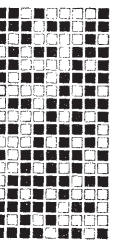
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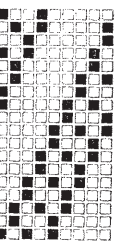
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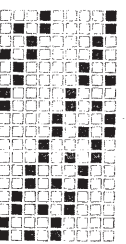
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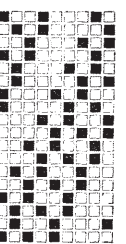
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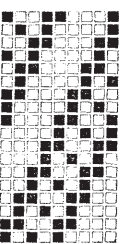
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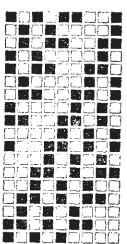
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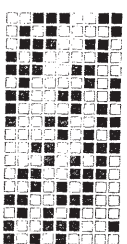
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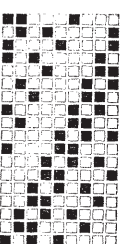
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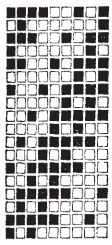


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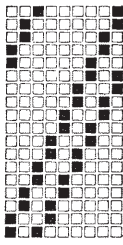


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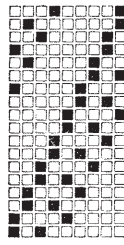
PATTERNS UPON 9 ENDS—(continued)



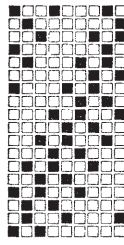
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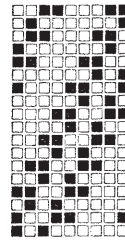
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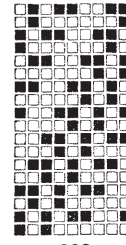
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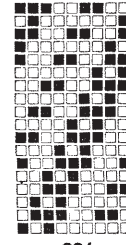
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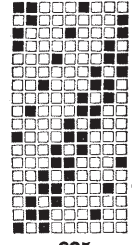
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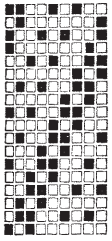
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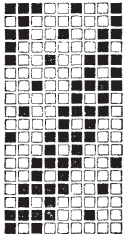
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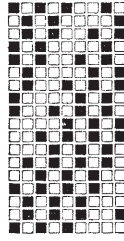
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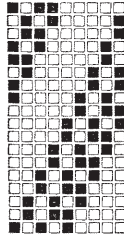
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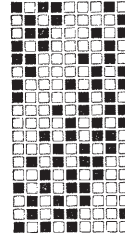
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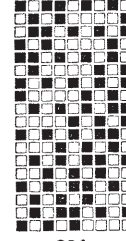
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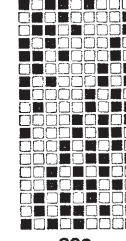
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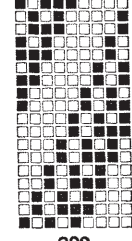
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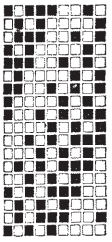
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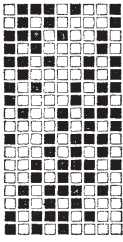
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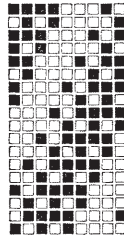
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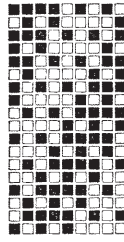
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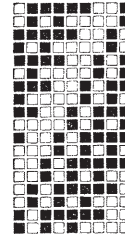
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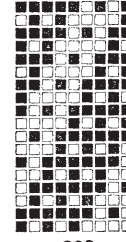
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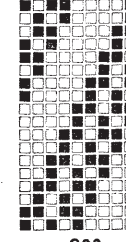
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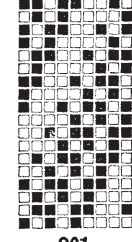
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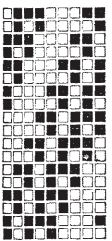
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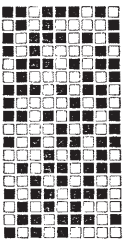
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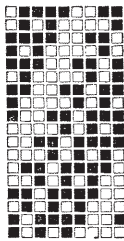
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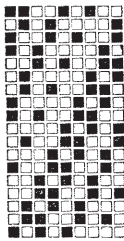
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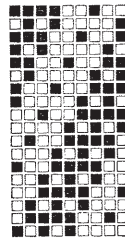
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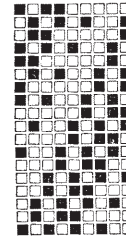
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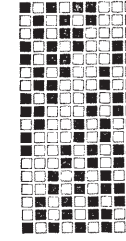
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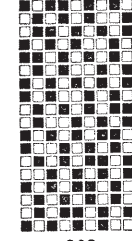
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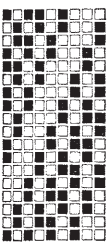
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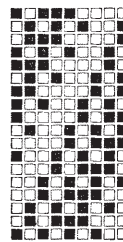
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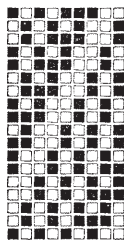
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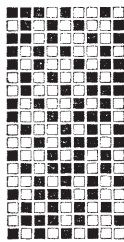
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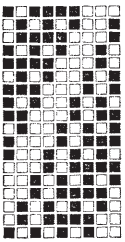
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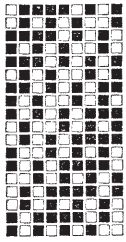
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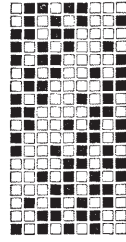
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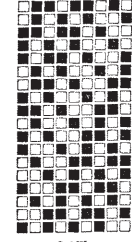
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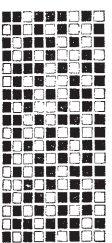
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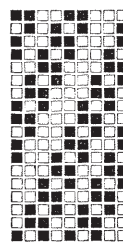
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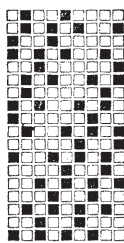
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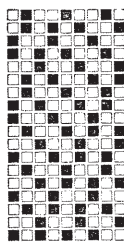
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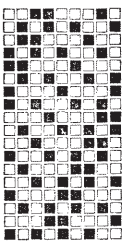
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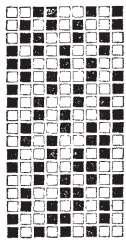
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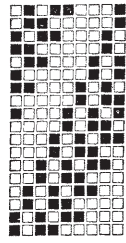
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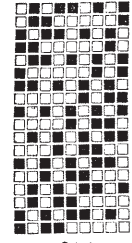
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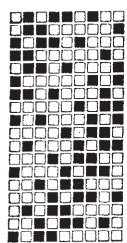


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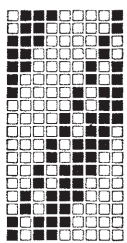


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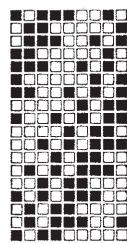
PATTERNS UPON 9 ENDS—(continued)



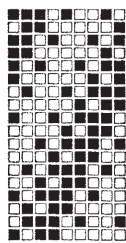
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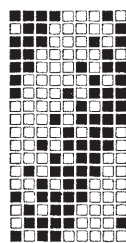
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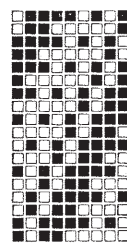
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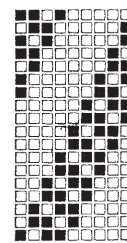
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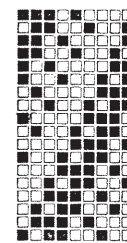
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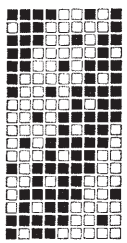
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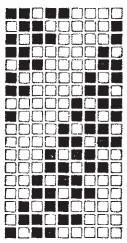
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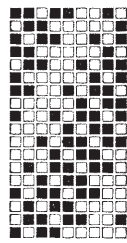
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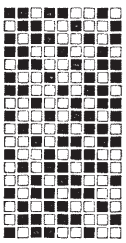
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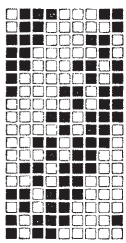
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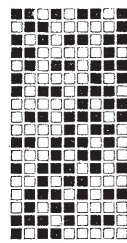
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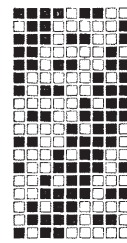
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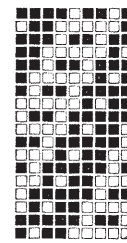
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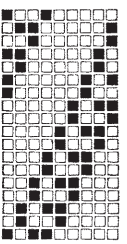
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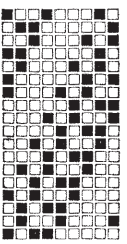
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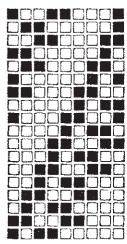
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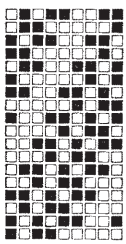
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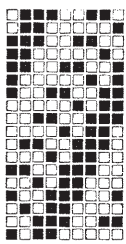
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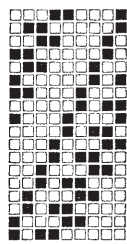
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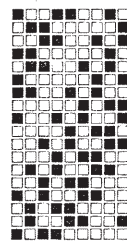
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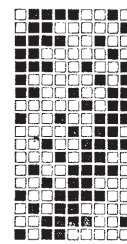
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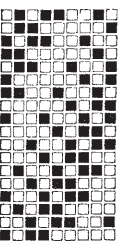
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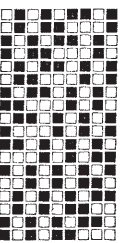
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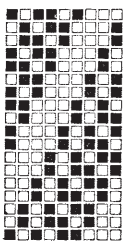
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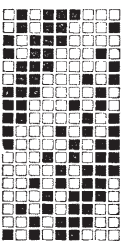
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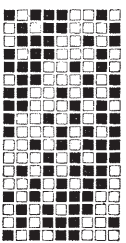
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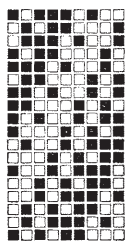
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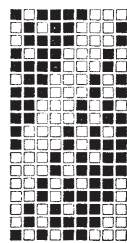
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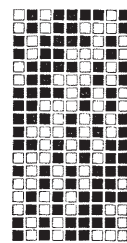
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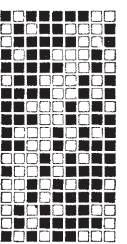
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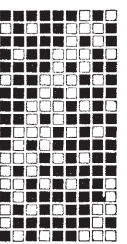
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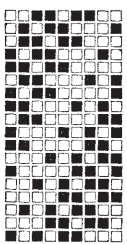
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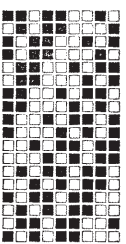
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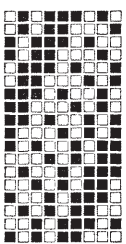
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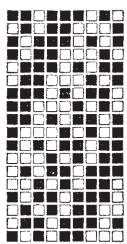
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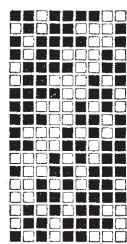
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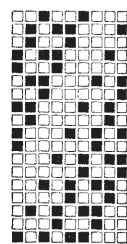
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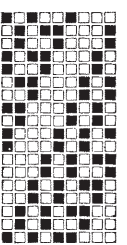
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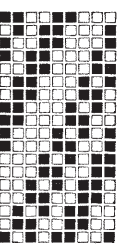
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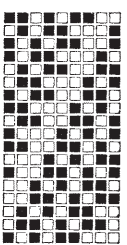
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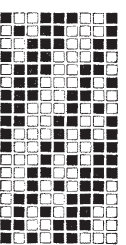
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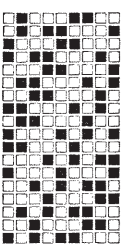
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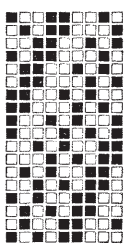
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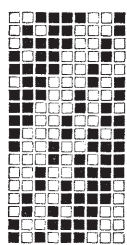
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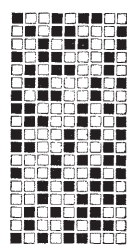
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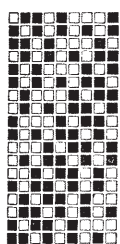


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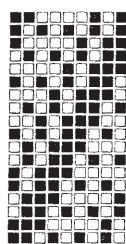


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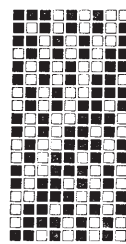
PATTERNS UPON 9 ENDS—(continued)



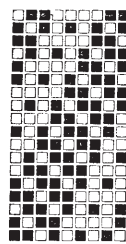
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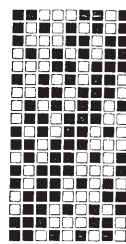
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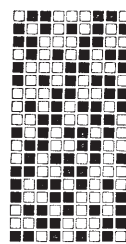
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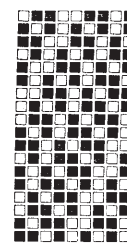
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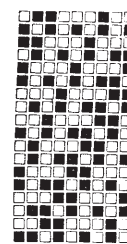
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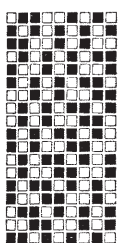
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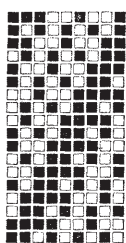
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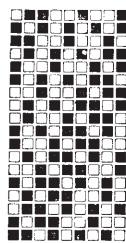
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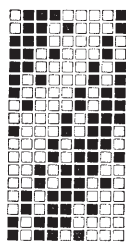
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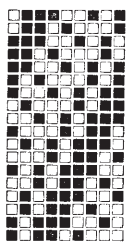
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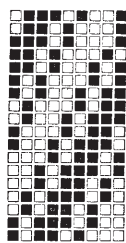
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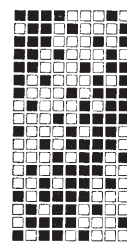
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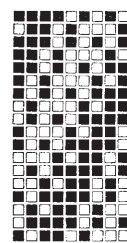
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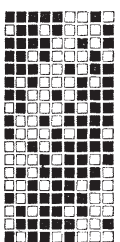
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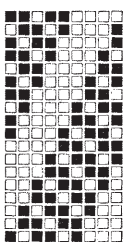
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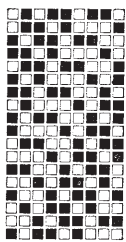
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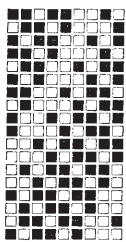
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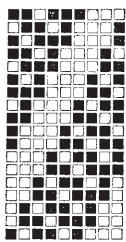
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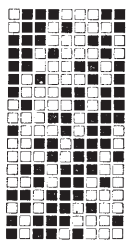
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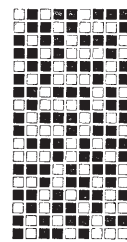
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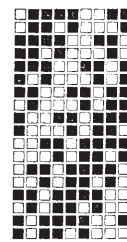
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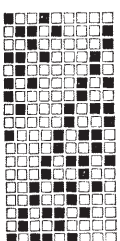
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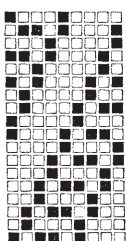
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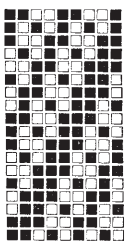
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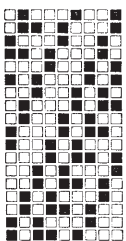
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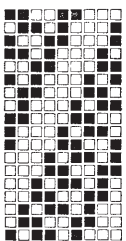
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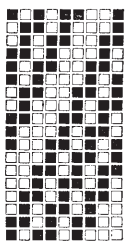
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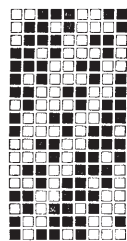
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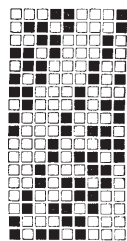
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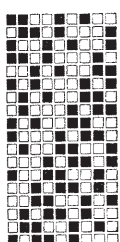
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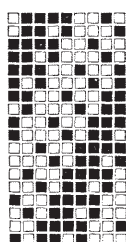
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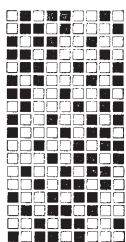
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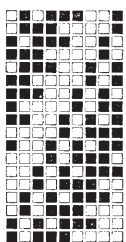
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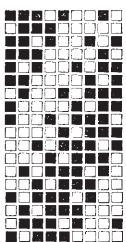
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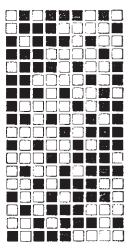
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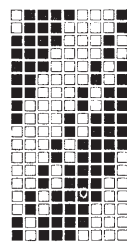
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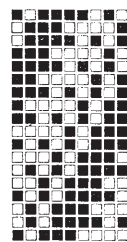
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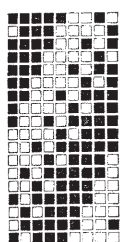
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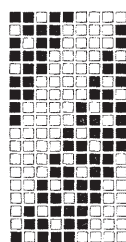
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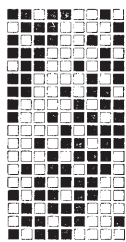
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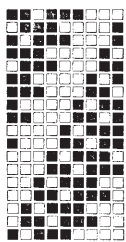
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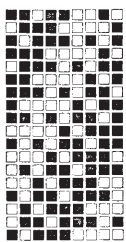
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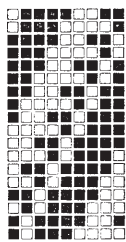
1016



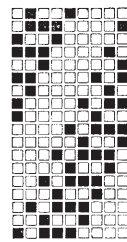
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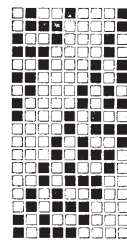
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1019

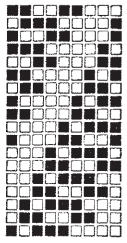


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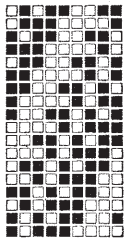


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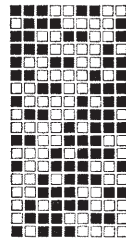
PATTERNS UPON 9 ENDS--(continued)



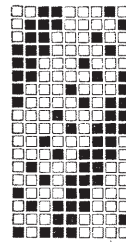
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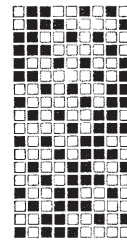
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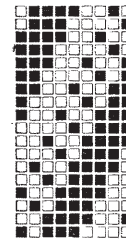
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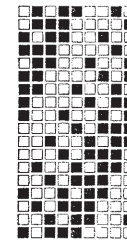
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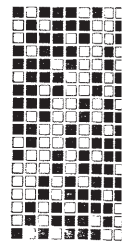
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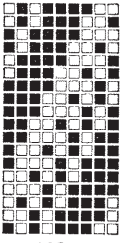
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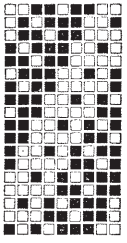
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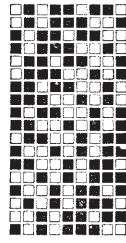
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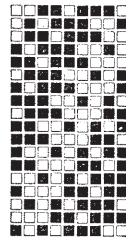
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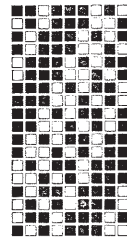
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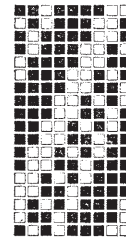
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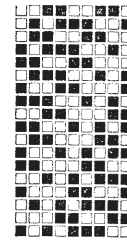
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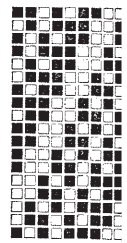
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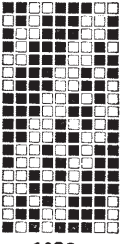
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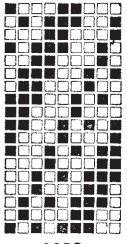
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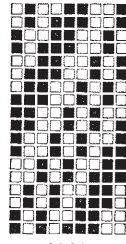
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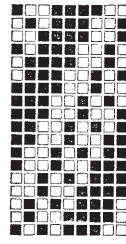
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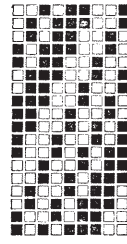
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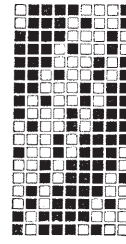
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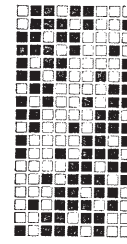
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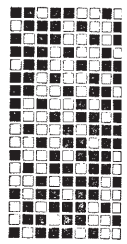
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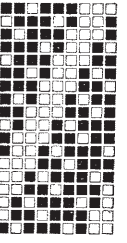
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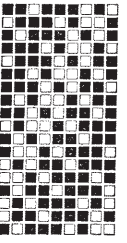
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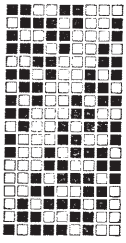
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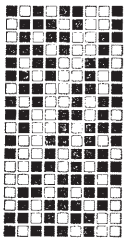
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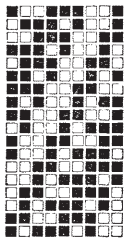
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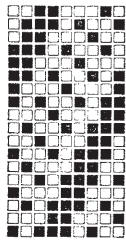
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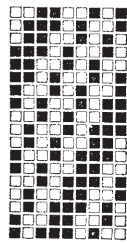
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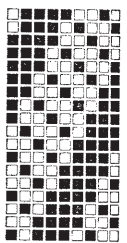
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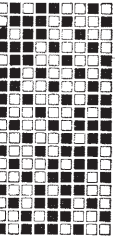
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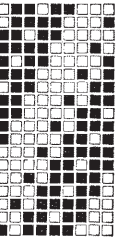
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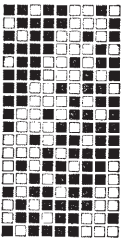
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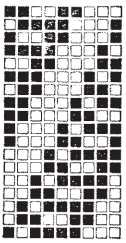
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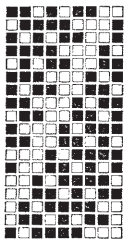
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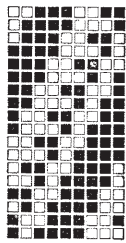
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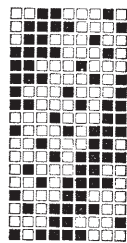
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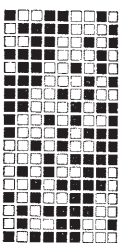
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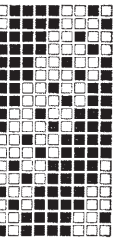
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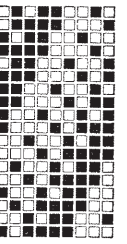
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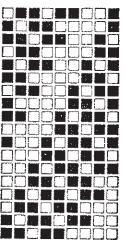
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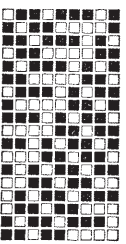
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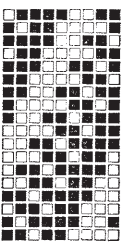
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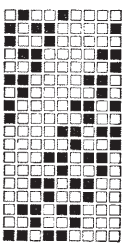
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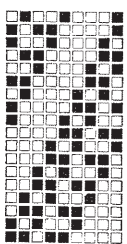
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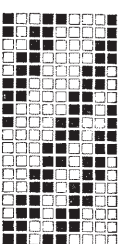
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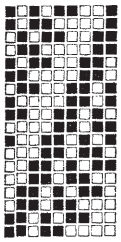


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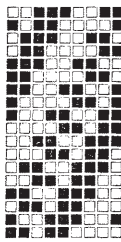


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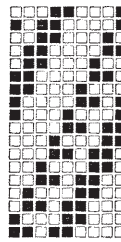
PATTERNS UPON 9 ENDS-(continued)



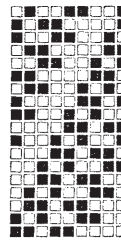
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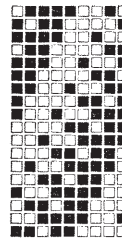
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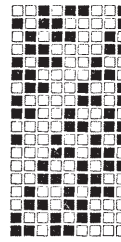
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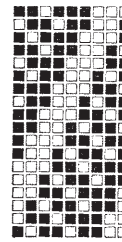
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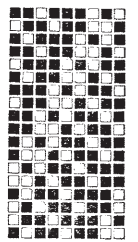
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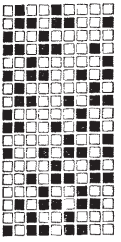
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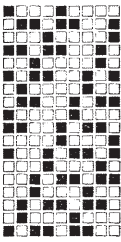
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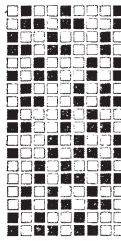
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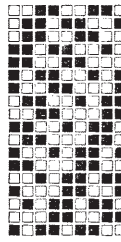
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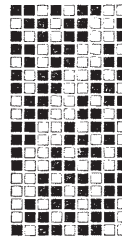
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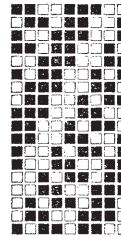
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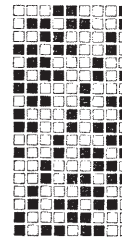
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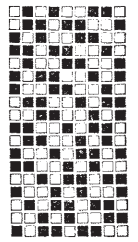
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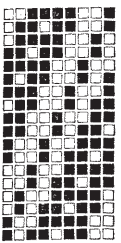
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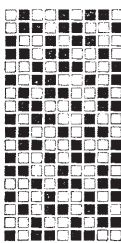
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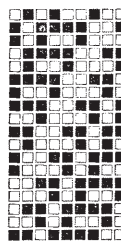
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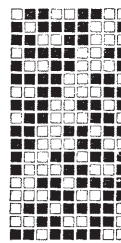
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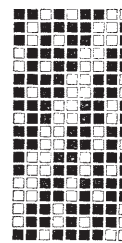
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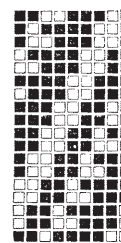
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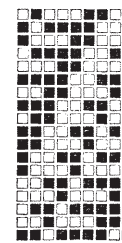
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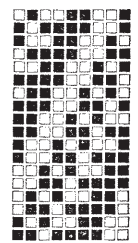
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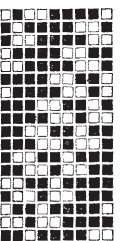
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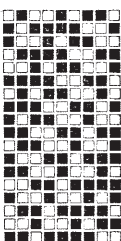
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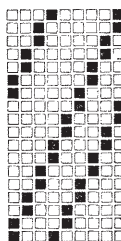
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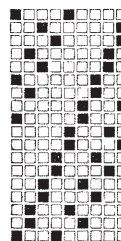
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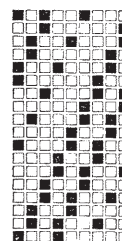
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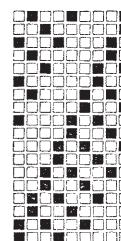
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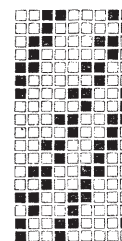
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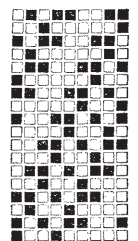
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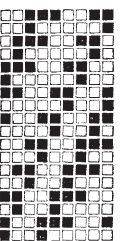
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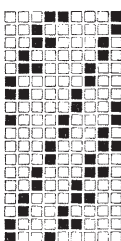
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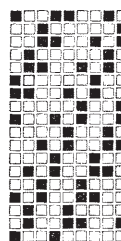
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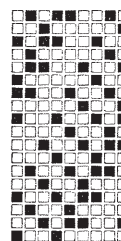
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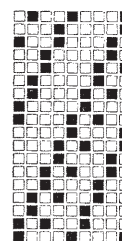
1103



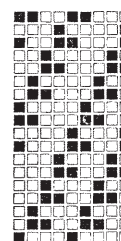
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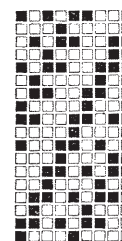
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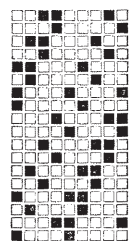
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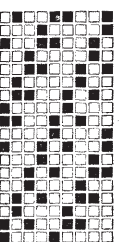
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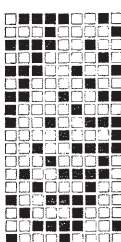
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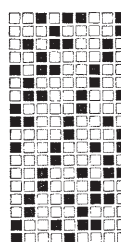
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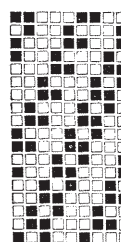
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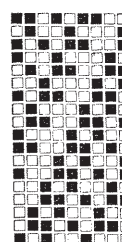
1111



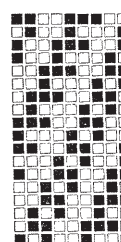
1112



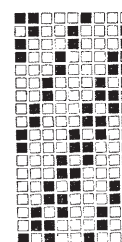
1113



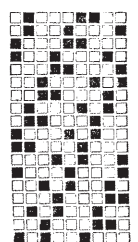
1114



1115

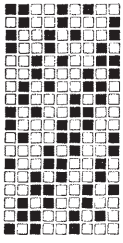


1116

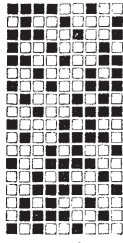


1117

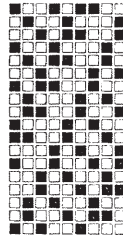
PATTERNS UPON 9 ENDS—(continued)



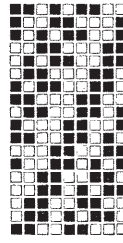
1118



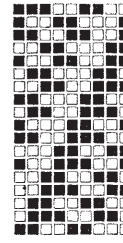
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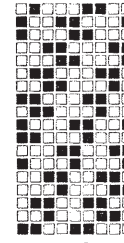
1120



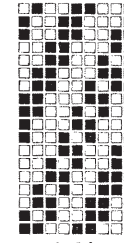
1121



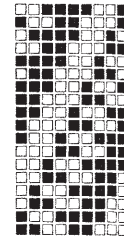
1122



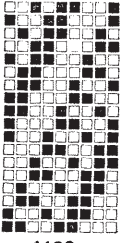
1123



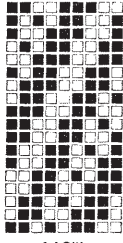
1124



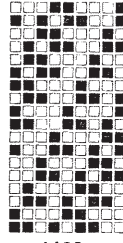
1125



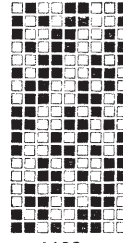
1126



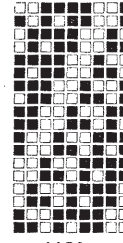
1127



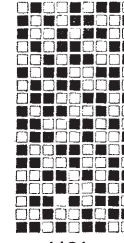
1128



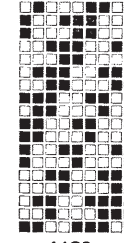
1129



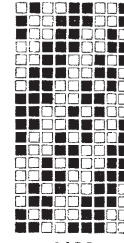
1130



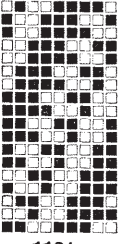
1131



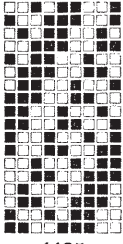
1132



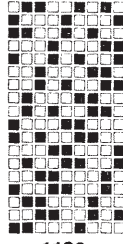
1133



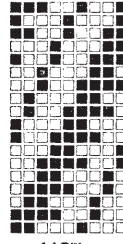
1134



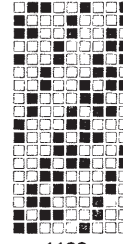
1135



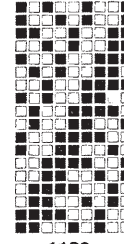
1136



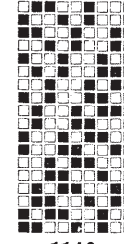
1137



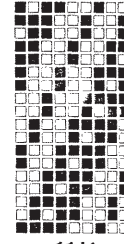
1138



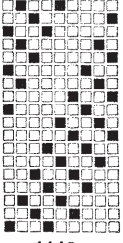
1139



1140

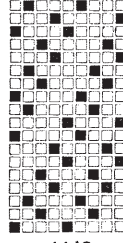


1141



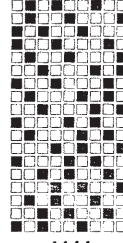
1142

666-703-1175-1201



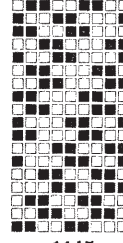
1143

667-704-1202



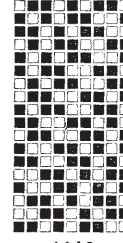
1144

668-705-1203



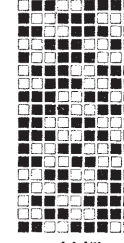
1145

669-706-1176-1204



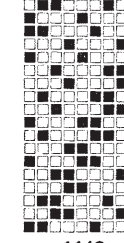
1146

670-707-1205



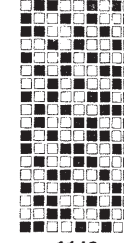
1147

671-708-1206

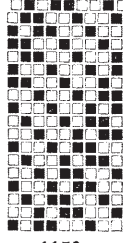


1148

672-1207

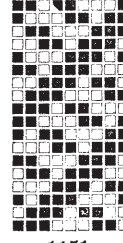


1149

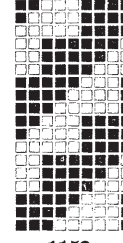


1150

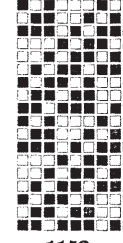
675-1171-1210



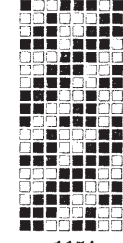
1151



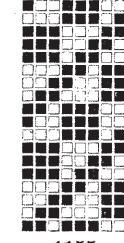
1152



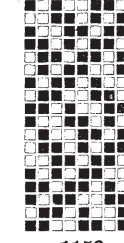
1153



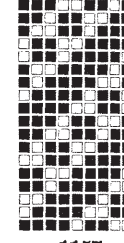
1154



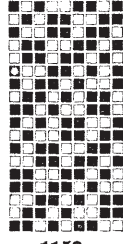
1155



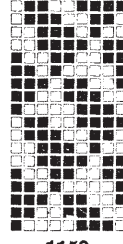
1156



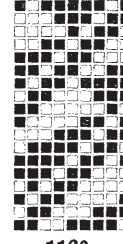
1157



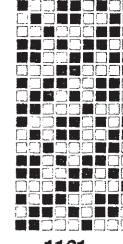
1158



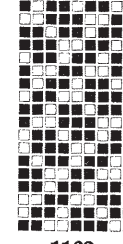
1159



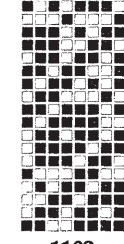
1160



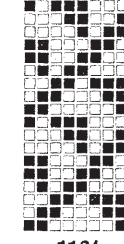
1161



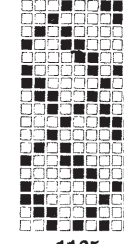
1162



1163

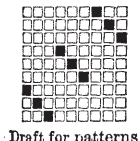


1164



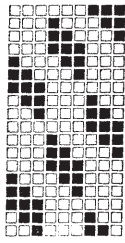
1165

PATTERNS UPON 9 ENDS -(continued)

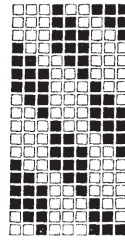


Draft for patterns
1167 to 1176

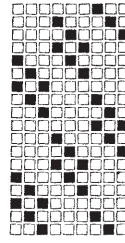
1166



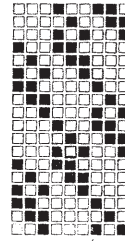
1167
712-1179



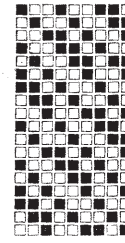
1168
713-1180



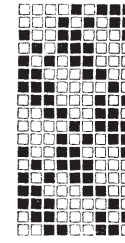
1169
646-683-714-1181



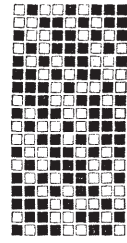
1170
649-686-717-1184



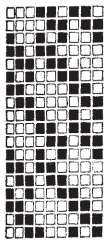
1171
675-1150-1210



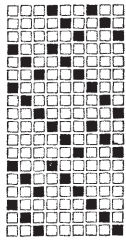
1172
653-690-721-1188



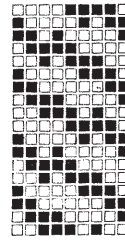
1173
655-692-723-1190



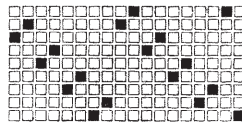
1174
660-697-725-1195



1175
666-703-1142-1201

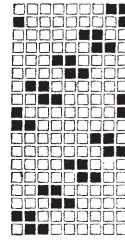


1176
669-706-1145-1204

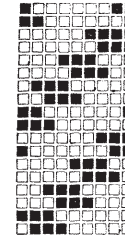


Draft for patterns
1178 to 1219

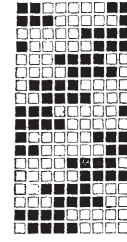
1177



1178



1179

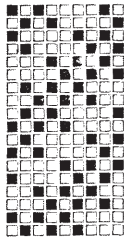


1180

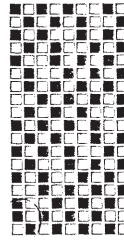
Patterns 1167 and 1168, as also patterns 1178 to 1180 are based upon ordinary twills.



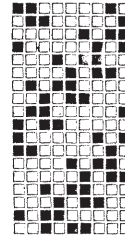
1181



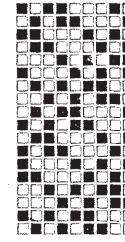
1182



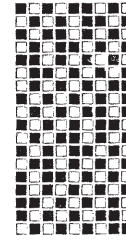
1183



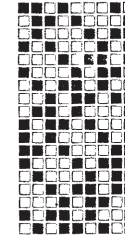
1184



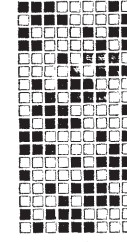
1185



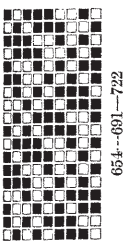
1186



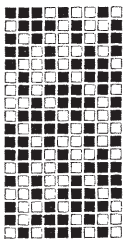
1187



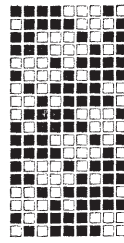
1188



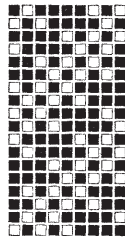
1189



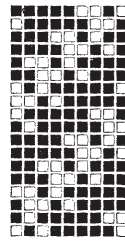
1190



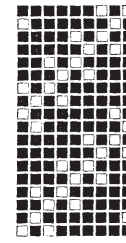
1191



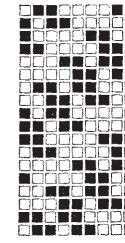
1192



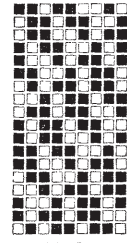
1193



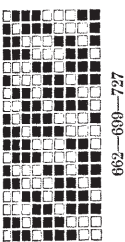
1194



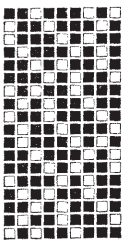
1195



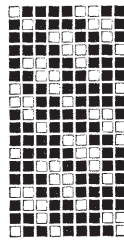
1196



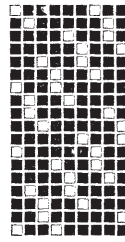
1197



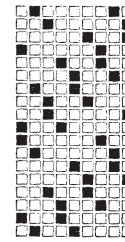
1198



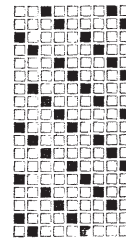
1199



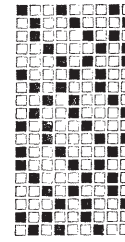
1200



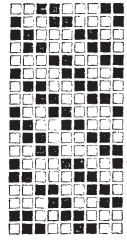
1201



1202

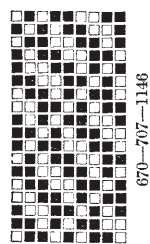


1203

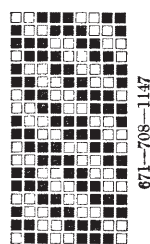


1204

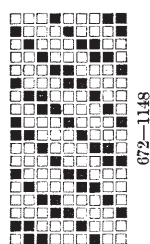
PATTERNS UPON 9 ENDS—(continued)



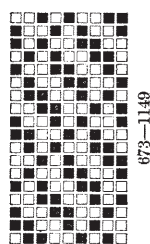
1205



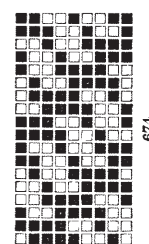
1206



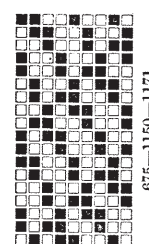
1207



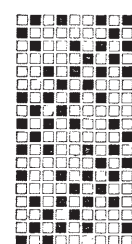
1208



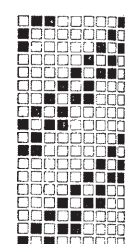
1209



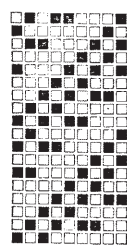
1210



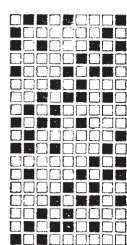
1211



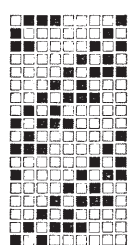
1212



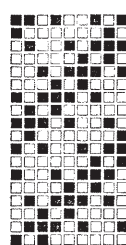
1213



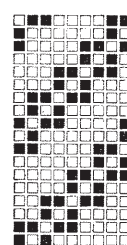
1214



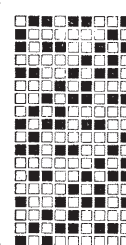
1215



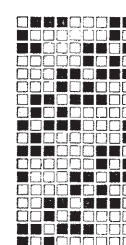
1216



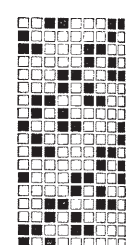
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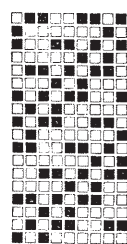
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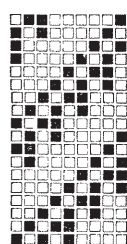
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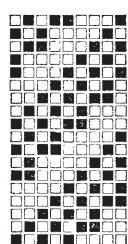
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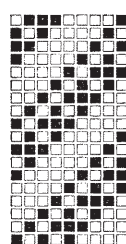
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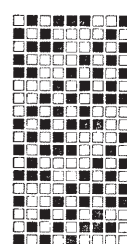
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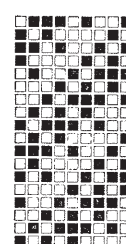
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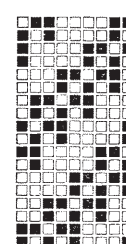
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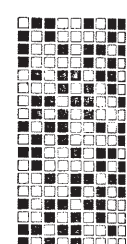
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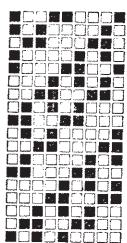
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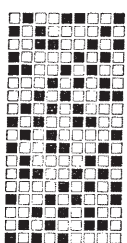
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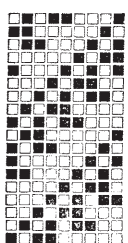
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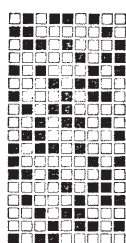
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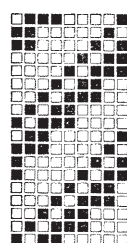
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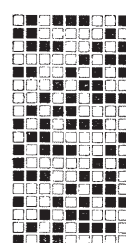
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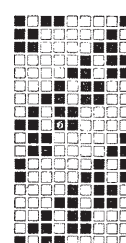
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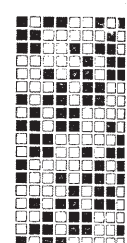
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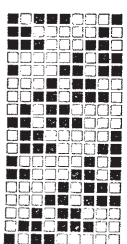
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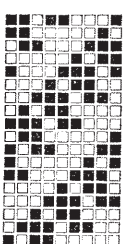
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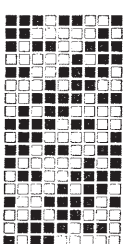
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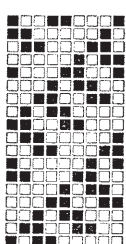
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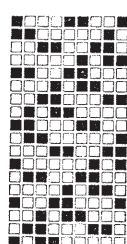
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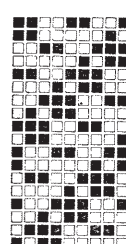
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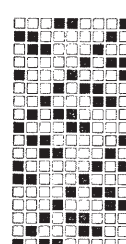
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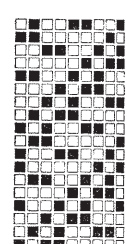
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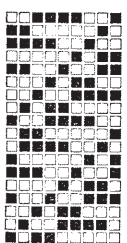
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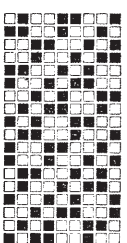
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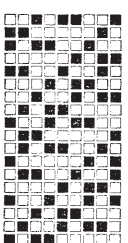
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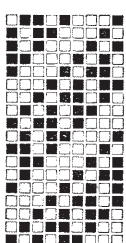
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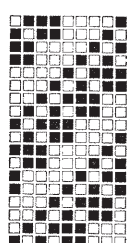
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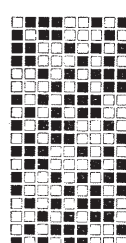
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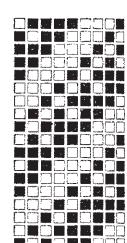
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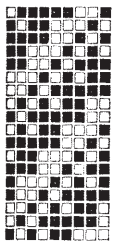


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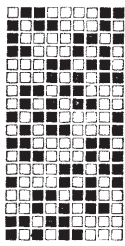


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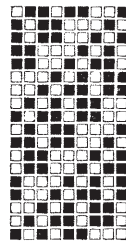
PATTERNS UPON 9 ENDS—(continued)



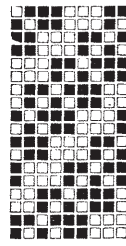
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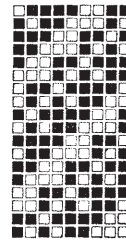
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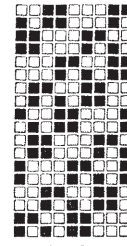
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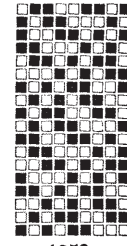
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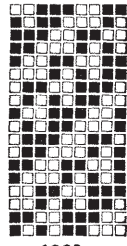
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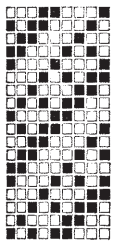
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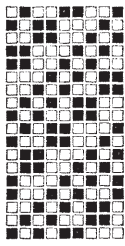
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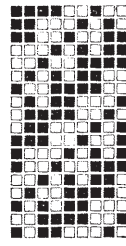
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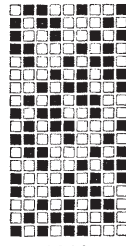
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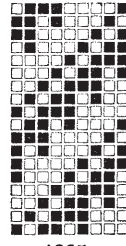
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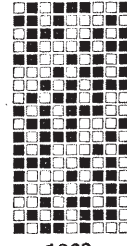
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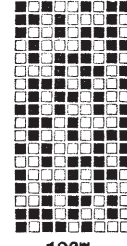
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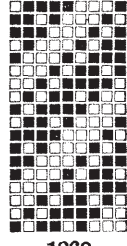
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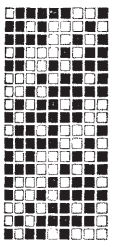
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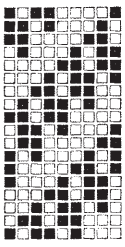
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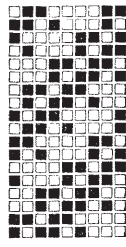
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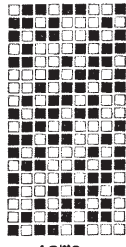
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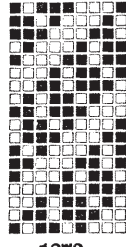
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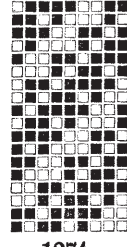
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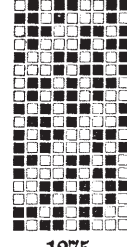
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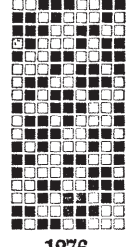
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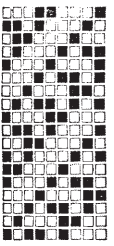
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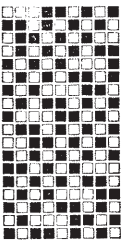
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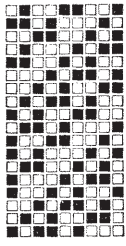
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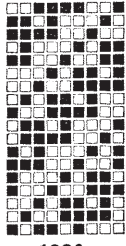
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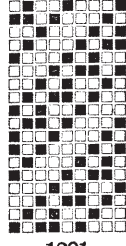
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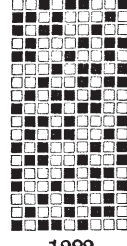
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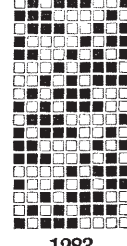
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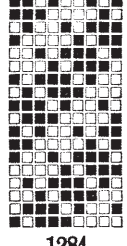
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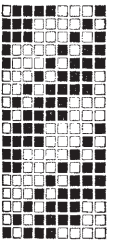
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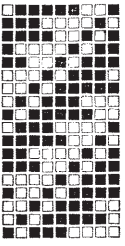
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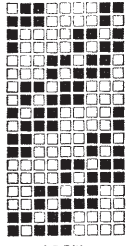
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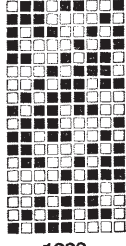
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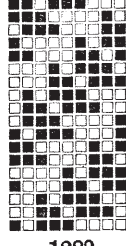
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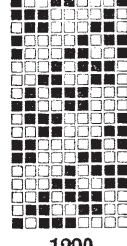
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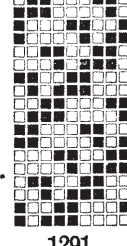
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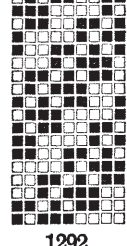
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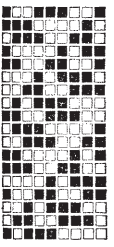
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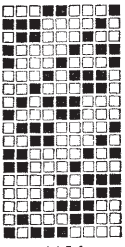
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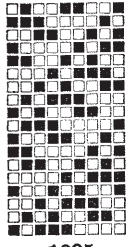
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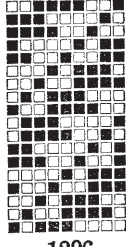
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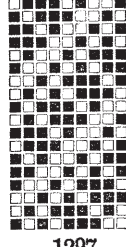
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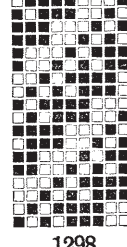
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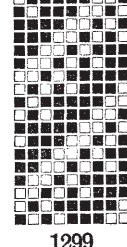
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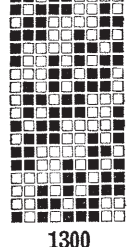
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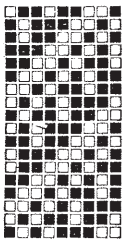


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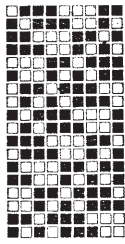


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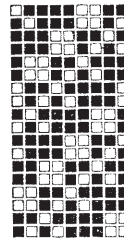
PATTERNS UPON 9 ENDS--(continued)



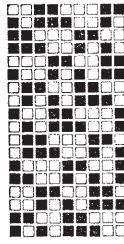
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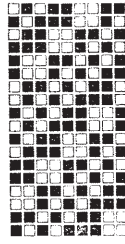
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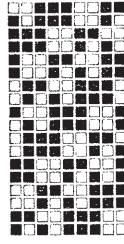
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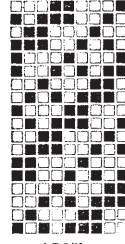
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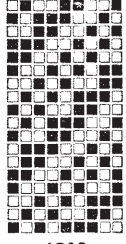
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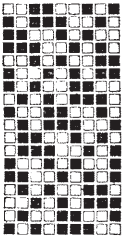
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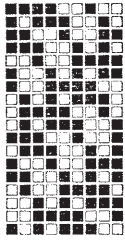
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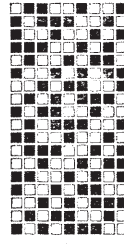
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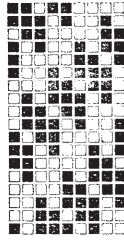
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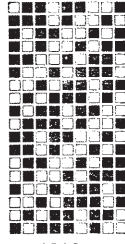
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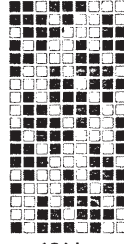
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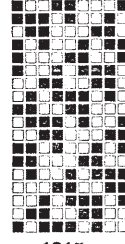
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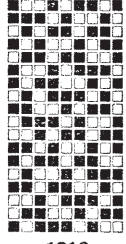
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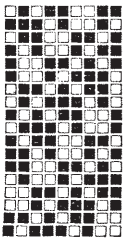
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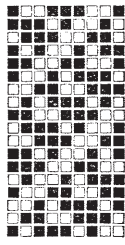
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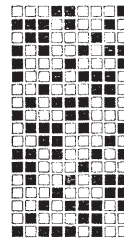
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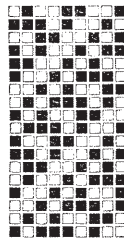
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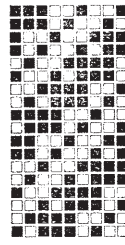
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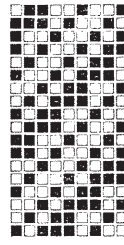
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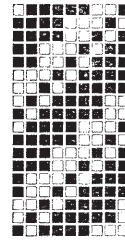
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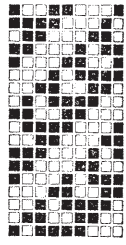
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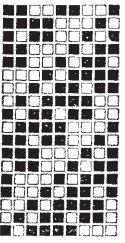
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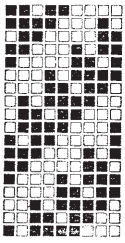
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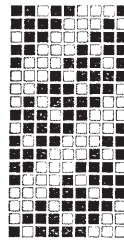
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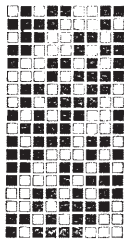
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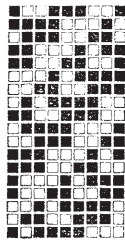
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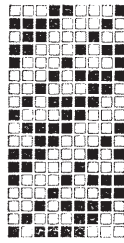
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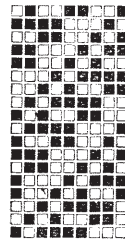
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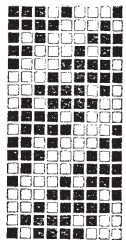
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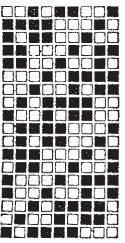
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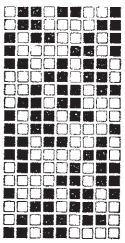
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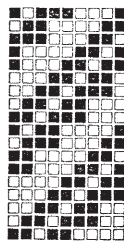
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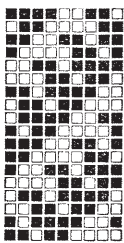
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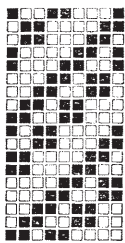
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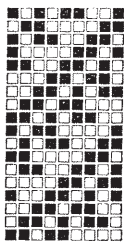
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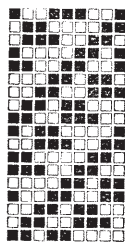
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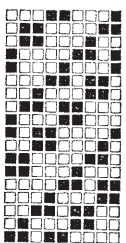
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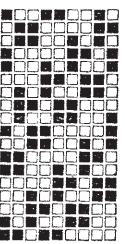
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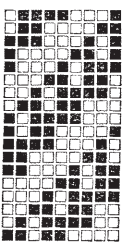
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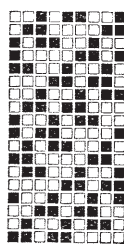
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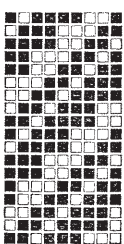
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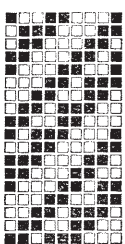
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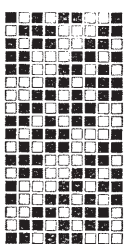
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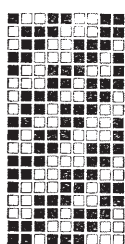
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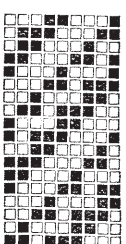
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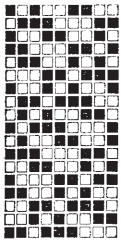


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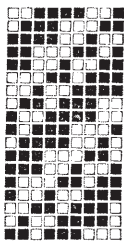


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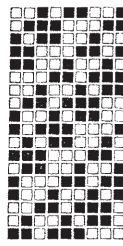
PATTERNS UPON 9 ENDS--(continued)



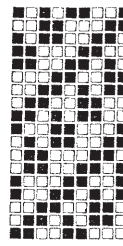
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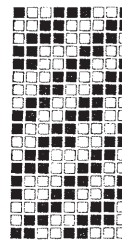
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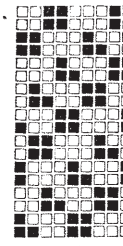
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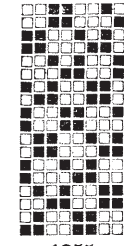
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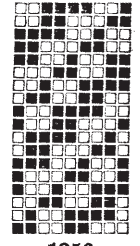
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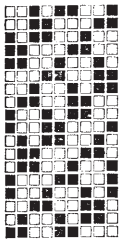
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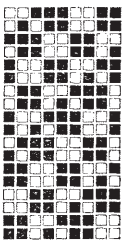
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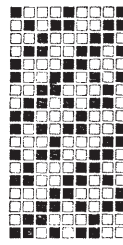
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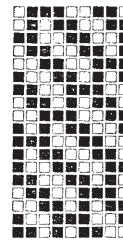
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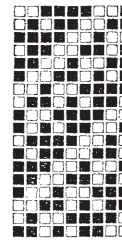
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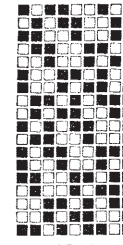
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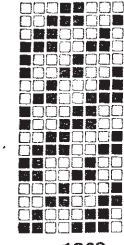
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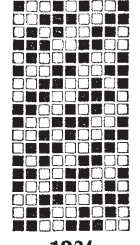
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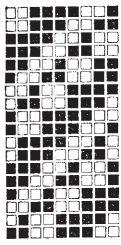
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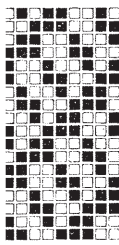
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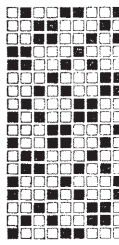
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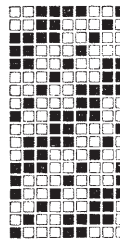
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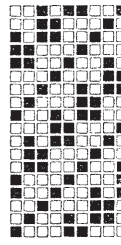
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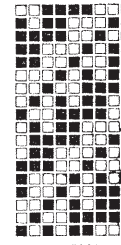
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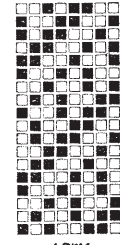
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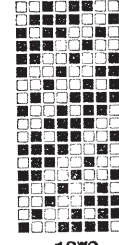
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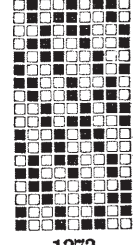
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1371

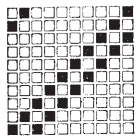


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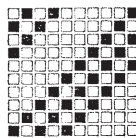
1373

PATTERNS UPON 10 ENDS



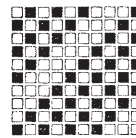
1374

1413-1939-2009
2048-2090-2133



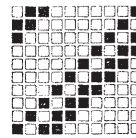
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1414-1970-2010
2019-2081-2134



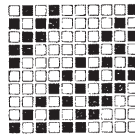
1376

1415-1971-2011
2050-2082-2135



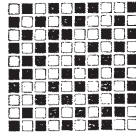
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1416-1972-2012
2051-2083-2136



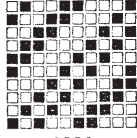
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1417-1973-2013
2052-2084-2137



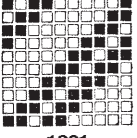
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1418-1974-2014
2053-2085-2138



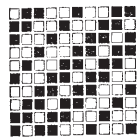
1380

1419-1975-2015
2054-2086-2139



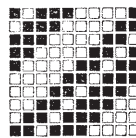
1381

1420-1976-2016
2055-2087-2140



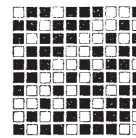
1382

1421-1977-2017
2056-2088-2141



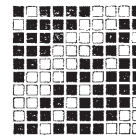
1383

1422-1978-2019
2057-2089-2142



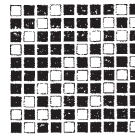
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1423-1979-2020
2058-2090-2143



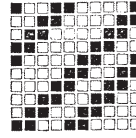
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1424-1980-2021
2059-2091-2144



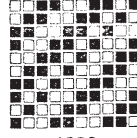
1386

1425-1981-2022
2060-2092



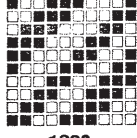
1387

1426-1982-2023
2061-2093-2145



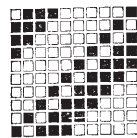
1388

1427-1983-2024
2062-2094-2146



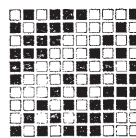
1389

1428-1984-2019
2063-2095-2147



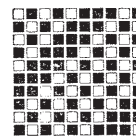
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1429-1985-2025
2064-2096-2148



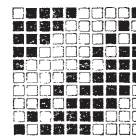
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1430-1986-2026
2065-2097-2149



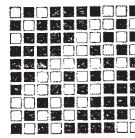
1392

1431-1987-2027
2066-2098



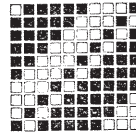
1393

1432-1988-2028
2067-2099-2150



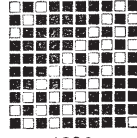
1394

1433-1989-2029
2068-2100-2151



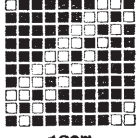
1395

1990-2030-2063
2191



1396

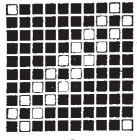
1991-2031-2070
2192



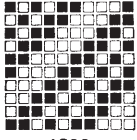
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1992-2032

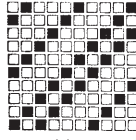
PATTERNS UPON 10 ENDS -(continued)



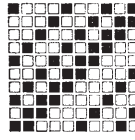
1398
1993



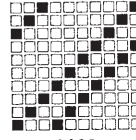
1399
1434-1994-2033
2071-2103-2152



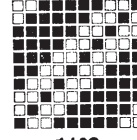
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1436-1996-2035
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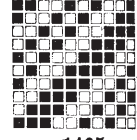
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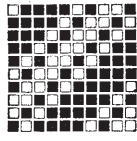
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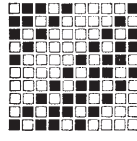
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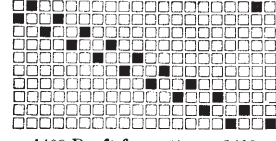
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2001-2041-2078
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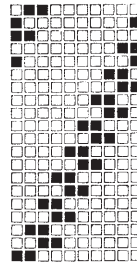


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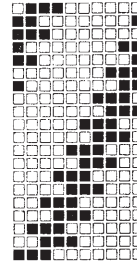
1408 Draft for patterns 1409
to 1438

1408



2158-1965-2005-2044

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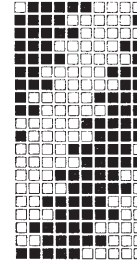
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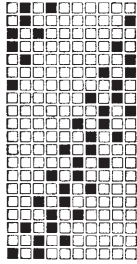
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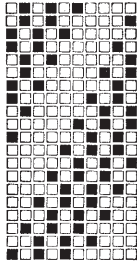
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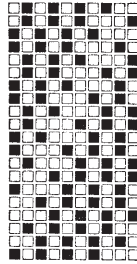
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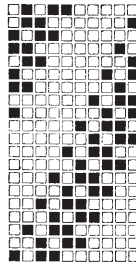
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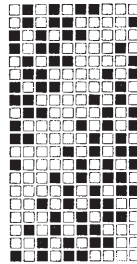
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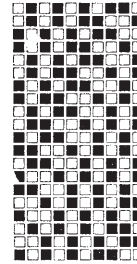
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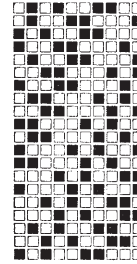
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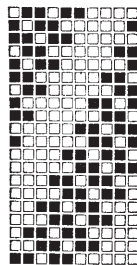
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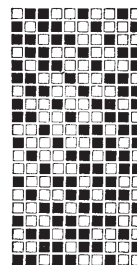
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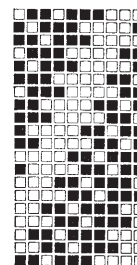
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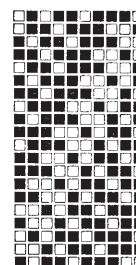
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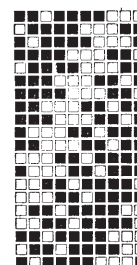
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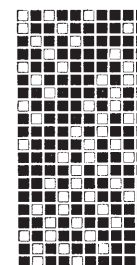
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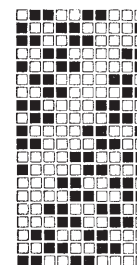
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2059-2091-2144

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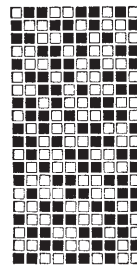
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2060-2092

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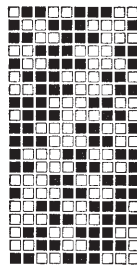
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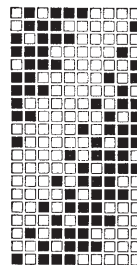
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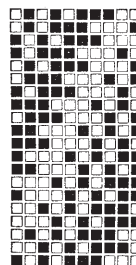
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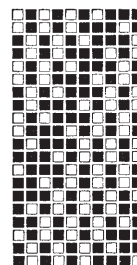
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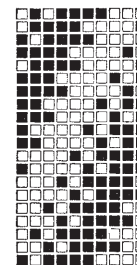
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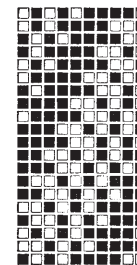
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1393-1988-2028
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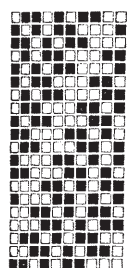
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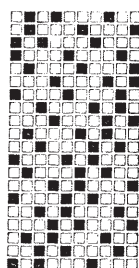
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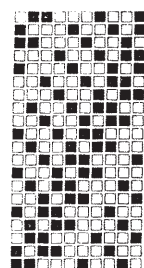
PATTERNS UPON 10 ENDS—(continued)



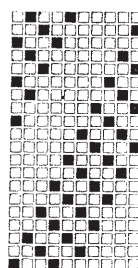
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1899—1904—2033
2071—2103—2152

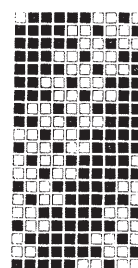
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2104—2153

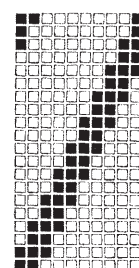
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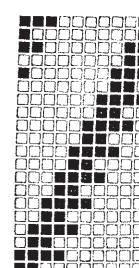
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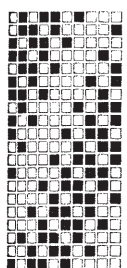
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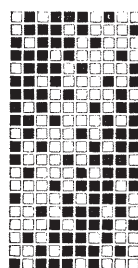
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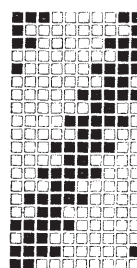
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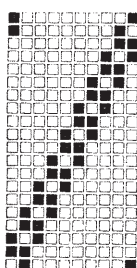
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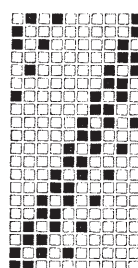
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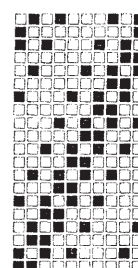
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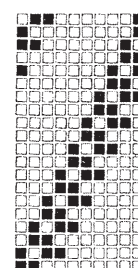
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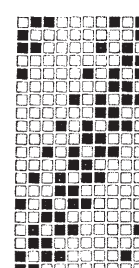
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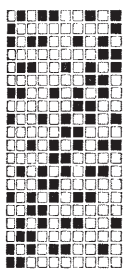
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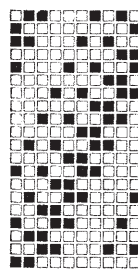
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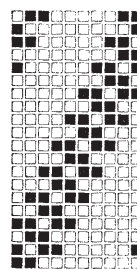
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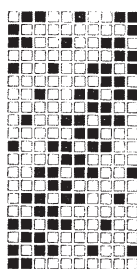
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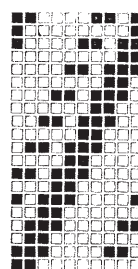
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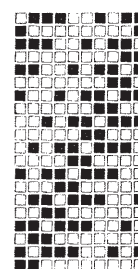
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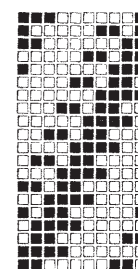
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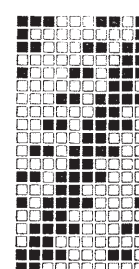
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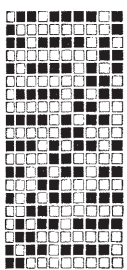
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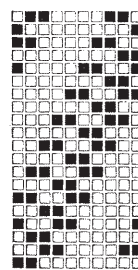
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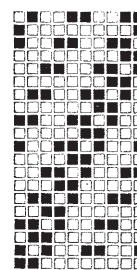
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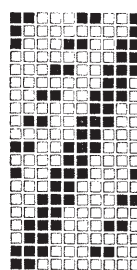
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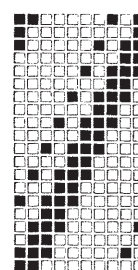
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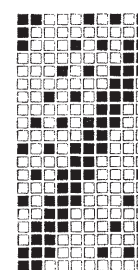
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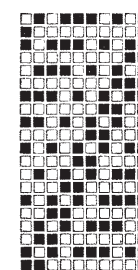
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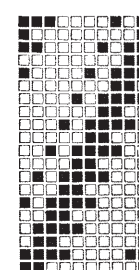
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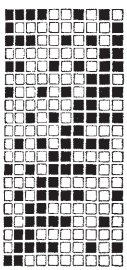
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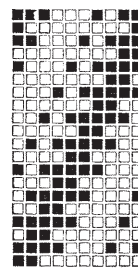
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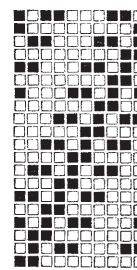
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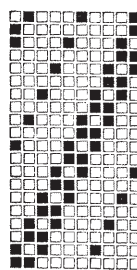
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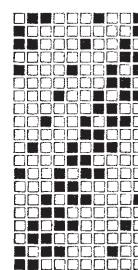
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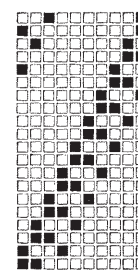
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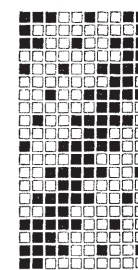
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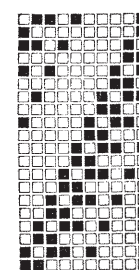
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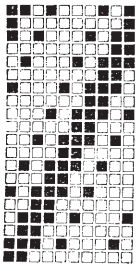


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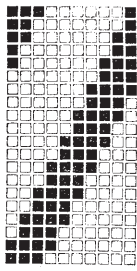


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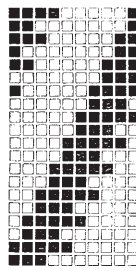
PATTERNS UPON 10 ENDS--(continued)



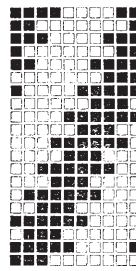
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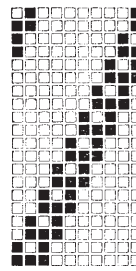
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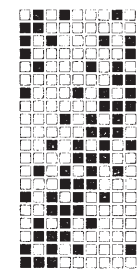
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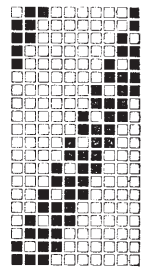
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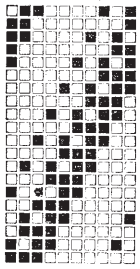
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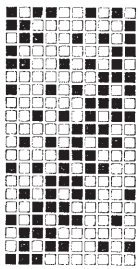
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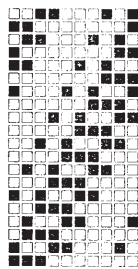
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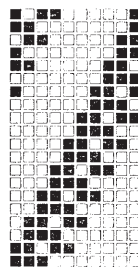
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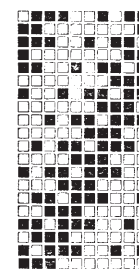
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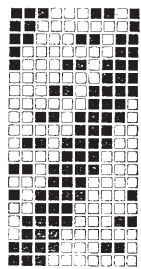
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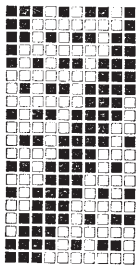
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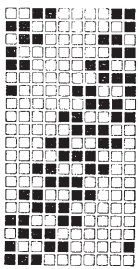
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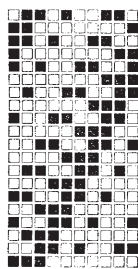
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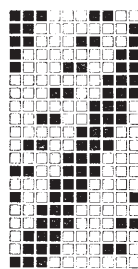
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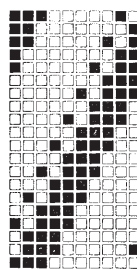
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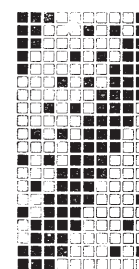
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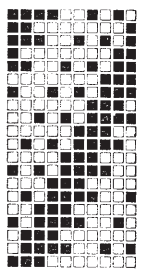
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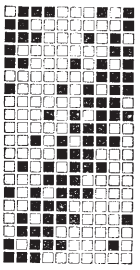
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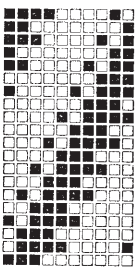
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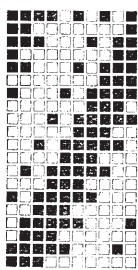
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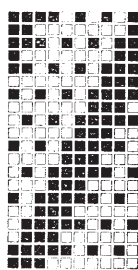
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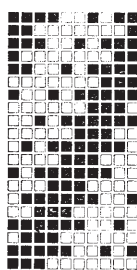
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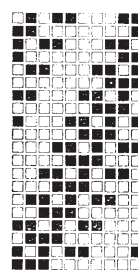
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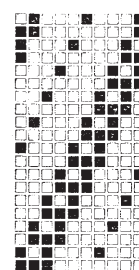
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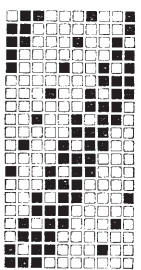
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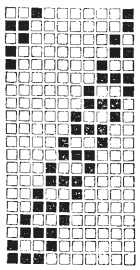
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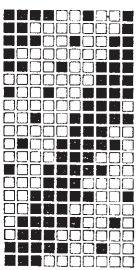
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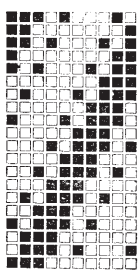
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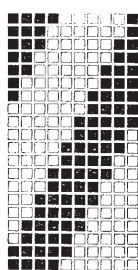
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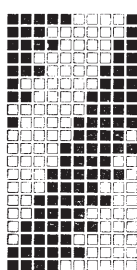
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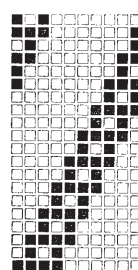
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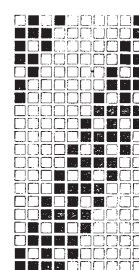
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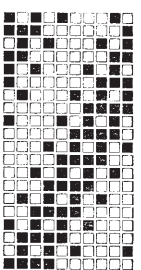
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1510



1511



1512