*from* Gaskell, Philip. 'Imposition.' *A New Introduction to Bibliography*. Oxford: OUP, 1972; New Castle, DE: Oak Knoll Press, 1995. 78-117.

<ol> <li>Not all books had catchwords, however; Parisian printers (for instance) must have used some other way of getting their pages in the right order on the stone.</li> <li>Moxon, J., <i>Mechanick exercises</i>, eds. Davis and Carter, 2nd ed., Oxford 1962, p. 43.</li> </ol>	FORMES The compositor imposed the pages for each side of a sheet by arranging them on a flat surface, surrounding them with wooden spacing pieces of less than type height, and locking them into an iron frame with long and short wedges; the order of the pages in each forme (as the pages imposed in this way for each side of the sheet were called) being such that, when a sheet of paper printed from them was folded to make a section of a book, the pages followed each other in the proper sequence. The following descrip- tion of how this was done refers to a sheet of which the pages had been set consecutively and were thus all available together for imposition, and to an imposing surface (or stone) which would accommodate only one forme at a time. Some stones were big enough to take both formes of a sheet side by side, in which case they might be imposed together rather than one after the other. Alternatively the sheet might have been set by formes, when the pages for one forme would be ready for imposition well before those for the other, and the compositor some time ago with the pages for the first sheet of a book stored on a convenient surface, tied round with string and com- plete with their headlines and direction-lines. He now slid the pages for one of the formes called) to tell which page followed which, he arranged them in their proper order, and he used the catchwords (or 'directions' as they were sometimes called) to tell which page followed which, he arranged them in their proper order. Next the chase was set down on the stone raised to table height on a frame. Using the catchwords (or vince in a the page numbers for this purpose because, as we shall see, the headlines for all out on the stone, not before.' Next the chase was set down on the stone around the pages. This was a rectangular frame of square-section iron bars, and for most of the hand-press period they were of a standard size that fitted comfortably in the bed of the wooden press, namely about $\overline{56 \times 46}$ cm. over all, $52 \times 42$ cm. inside? i

F1G. 43. An octavo forme on the imposing stone, locked up with wooden furniture and quoins. Beside it are the compositor's mallet, planer, and shooting-stick.

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wooden planer. Finally the quoins were driven home with a mallet and Short wedges, or quoins, were then put in between the long wedges and up with wooden furniture, and long wedges were fitted round the edges type that were sticking up above the rest could be knocked down with a were tied up could be unwound and removed, and so that any pieces of the inside of the chase, loosely at first so that the string with which the pages 'shooting stick' to lock the forme up tightly.

whose methods were peculiar to him).4 were.3 Chases with thumb-screws in two of the sides for locking up the is no evidence of their use in Holland or England (except by Baskerville the seventeenth century and in Italy until the eighteenth century, but there forme without the use of quoins were used in France and Germany until Sixteenth-century chases might be made of wood, as some of Plantin's

stood it on its edge on the floor, leaning against his frame) and proceeded to impose the second forme of the sheet in the same way the type falling out. The compositor therefore pushed it to one side (or did not have a bottom like a tray, it could be moved about or lifted without the forme was now virtually a solid slab of wood and metal and, although it justified and the pieces of furniture were not binding against each other-If the job had been done properly-if all the lines of type were correctly

FORMAT V

¢

gatherings of pairs of leaves with four pages each. If the size of the paper not a folio, if the eight-page sheets were cut in half before folding to make orientation of the paper in the gatherings, and is expressed in the terms sheets as indicated by the number and conjugacy of the leaves and the the arrangement of its formes and the subsequent folding of the printed is added to the format statement, thus indicating the size and shape of the can be established by measuring the leaves or identifying the watermark it with horizontal chain lines is called a quarto; and it is still called a quarto, four-page formes folded twice to make four-leaf, eight-page, gatherings folio, quarto, octavo, etc. A book made up of sheets printed from pairs of book in the terminology of the trade: foolscap quarto, demy octavo, etc. In bibliographical usage the format of a book of the hand-press period means

were then cut up for folding into ordinary gatherings. For such books a monly printed from multiple impositions on large sheets of paper which We shall see later that books of the machine-press period were com-

<sup>3</sup> Information from Professor J. Gerritsen.

<sup>4</sup> Zonca, V., Nova teatro di machine et edificii, Padoua 1607, p. 64; Hornschuch, H., 'Ορθοτυπο-γραφία, Lipsiae 1608, A8'; Fertel, M. D., La science pratique de l'imprimerie, Saint-Omer 1723, p. 181; The Library, x, 1955, pp. 41-2; Signature, xii, 1951, p. 51; Gaskell, P., John Baskerville, a bibliography. Cambridge 1959, p. x1x.

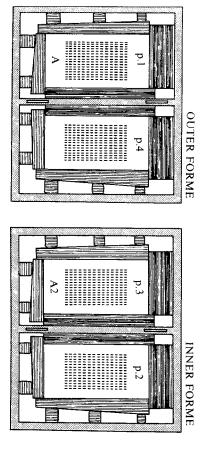
> mposition 81

gatherings was crown, and that the sub-units were folded octavo-fashion into gatherings of eight leaves. the imposition scheme or the size of the large sheets; what it does indicate format statement such as 'crown octavo' does not necessarily indicate either -properly used—is that the size of the sub-units of the sheets used for the

sheet  $(\frac{1}{2}^{0}, \frac{1}{4}^{0})$ . at all (1°), while a handbill might be in the form of a half-sheet or quarter-Large books of plates were sometimes made up of broadsheets, not foldec and sixteenmo (etc.) for the more complex foldings (16° (etc.) up to  $128^{\circ}$ ). times across the longer, again making twelve leaves, twenty-four pages across the shorter, making twelve leaves, twenty-four pages; long twelves decimo (12º), folded twice across the longer dimension and three times made across the first, making four leaves, eight pages; octavo (8°), with a two leaves or four pages to the sheet; quarto (4°), when a second fold is folio (abbreviated 2°) for sheets folded once across the longer side, giving (long 12°), when the sheet is folded once across the shorter side and five third fold across the second, making eight leaves, sixteen pages; duoimpositions and foldings that printers used. The usual terminology is Paper sizes have already been considered; now we must examine the

of the order in which they were to appear on the printed sheet. To take upwards, page 1 is on the right and page 4 on the left. The forme from which pages 2 and 3 on the inside. If the sheet is laid out flat with pages 1 and 4 dimension, pages 1 and 4 appear on the outside of the folded sheet and the simple case of a sheet of folio, which is folded once across its longer The compositor laid out his type pages on the stone in the mirror image

 $Y_{i}^{t}$ 



the quoins are driven up tight. The cross of the chase has slots in it to protect the points of the press when the tympan is folded down. furniture is so arranged that the head-, side-, foot-, and gutter-sticks will not bind on each other when FIG. 44. The two formes for a sheet of folio, showing the disposition of the pages (cf. fig. 46). The

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this outer side of the sheet was printed therefore had type-page 1 on the left and type-page 4 on the right; and it was called the outer forme. The forme from which the inner side of the same sheet was printed, containing pages 2 and 3, was called the inner forme. Similarly for other formats; the formes were laid out as mirror images of the printed sheets, and the outer forme always contained page 1, the inner forme page 2.

It will also be obvious that a sheet of paper folded in folio had the chain lines in the paper running up and down the leaves (vertically), not across (horizontally); and that the watermark was in the middle of one of the leaves (it could be in either leaf) with the countermark, if any, in the middle of the other. Each format, in fact, had its own characteristics of chain-line direction, watermark position, etc.

The following diagrams (figs. 46-63), which represent printed sheets, not formes, are intended both to explain how the various impositions and foldings worked, and to make them easier to identify in early books. By no means all the possible formats are included—Savage's manual of 1841 illustrated more than 150 impositions<sup>5</sup>—but all the really common ones are here. By using the diagrams in conjunction with the notes which follow it will usually be easy enough to see how a particular hand-printed book was made; in difficult cases it will be found helpful to make a model of the sheet with a piece of 'quarto' paper. But it is well to remember that throughout the period nearly all books were printed in one of the four normal formats, folio, quarto, octavo, or duodecimo; and that other formats were used only for special cases, such as very small books, or books with pages of unusual shape.

Preliminary mention must be made of quiring, of impositions for gathering by half sheets, and of anomalous chain-lines and watermarks in paper. It was normal in the early days of printing to impose for gatherings of several sheets tucked, or quired, inside each other. Thus a folio gathering might consist of three folio sheets, the outermost of which contained pages 1 and 12 (printed from the outer forme) and pages 2 and 11 (from the inner forme); the middle sheet had pages 3 and 10, 4 and 9; and the innermost sheet had pages 5 and 8, 6 and 7. All three sheets were signed with the same letter (A1 on page 1, A2 on page 3, and A3 on page 5), and the folding is designated '2° in 6s'. In the fifteenth century folio gatherings consisted of up to five sheets; quarto (and occasionally octavo) gatherings might consist of two sheets. Patterns of quiring changed in later periods. Folios were generally gathered in 6s during the sixteenth and seventeenth centuries, but most eighteenth-century folios were gathered by single sheets (i.e. in 2s) despite

5 Savage, W., A dictionary of the art of printing, London 1841, pp. 335-400

Imposition 83

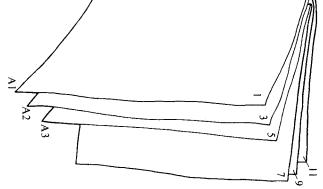


FIG. 45. A gathering, or section, of three sheets of folio, quired ( $z^{0}$  in 6s).

the extra sewing that this entailed. Quarto in 8s remained common in English printing until the seventeenth century, and was continued in Bible printing until 1800. Octavo gatherings were rarely quired after the fifteenth century.

side. Each printed sheet was then slit in half to yield two copies of the same over side in duodecimo) and printed from the same forme on the other method has been used in printing particular half sheets in quarto or octavo. sheets printed by half-sheet imposition. It is seldom possible to tell which each other, but which were sometimes indistinguishable from similar halt yielded copies of the two successive half sheets which were different from way; again the printed sheets were cut in half, but this time each one were imposed in two formes (see figs. 48, 52, 58) and printed in the normal half sheet. In the other method, the pages for two successive half sheets then the heap of paper was turned (end over end in quarto and octavo, side until the eighteenth century; they too required extra sewing. Two methods figs. 49, 53, 59); this forme was first printed on one side of the whole sheet, imposition,<sup>6</sup> all the pages for a half sheet were imposed in one forme (see were used which produced closely similar results. In one, called half-sheet used occasionally from early times, but did not become really common Impositions for gathering by half sheets in formats other than folio were

<sup>6</sup> Or 'work and turn'. See Povey, K., 'On the diagnosis of half-sheet imposition', *The Library*, xi, 1956, pp. 268–72.

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Turned chain-lines—that is, chain-lines in the paper that appear to run the wrong way for a particular format—are occasionally found, mostly in late-seventeenth-century and in eighteenth-century books. They resulted from the use either of double-sized sheets of paper cut in half before printing (when one of the long sides has a cut, not a deckle edge), or of sheets made in side-by-side two-sheet moulds (when there will be deckle edges all round); both varieties are likely to have tranchefiles along one of the long edges only.<sup>7</sup> Confusion may also be caused by paper in which the watermark is located elsewhere than in the normal position; such paper was rarely made, but may now and again be found with the watermark in the middle, or next to an edge, of the sheet.

## \* THE IDENTIFICATION OF FORMAT \*

The following procedure may be used to identify the format of a particular book.

#### 1. Make notes of:

- a. The dimensions of the uncut leaf (making allowance for cut edges by adding 1.0-2.0 cm. each way for large books, or 0.5-1.0 cm. each way for small books).
- b. The direction of the chain-lines
- c. The position of the watermark.
- d. The number of leaves per gathering.
- Refer to Key I to see if the book appears to be in one of the normal formats (2°, 4°, 8°, or 12°) or in long 12°; if it does, check the relevant diagram and note; finally, using Key III, multiply the dimensions of the leaf by the factors appropriate to the format to obtain the size of the uncut whole sheet, and find its name in the tables of paper sizes, pp. 73-5.
   If the book does not appear to be in one of the normal formats or in long 12° (remembering that it may have been heavily cut down, and that chain-lines and watermarks are not quite always reliable guides), and if
- with Key 111. If there is still no clear answer, either because the format appears to be abnormal or because there are several alternatives, consult one of the early printers' manuals (pp. 87, 393) and make reversed paper models of possible imposition schemes, paying attention as far as possible to deckle, cut and conjoint edges, tranchefiles, and point-holes.

it is not more than 15 cm. tall, refer to Key II, and check the possibilities

#### 7 See pp. 63-5.

### KEY I: Large and Medium Formate

ý	÷	ယ	2	_	5
5. uncut height chain-lines watermark leaves per gathering	4. uncut height chain-lines watermark leaves per gathering	3. uncut height chain-lines watermark leaves per gathering	2. uncut height chain-lines watermark leaves per gathering	1. uncut height chain-lines watermark leaves per gathering	<b>NEY I:</b> Large and Medium Formats
12:5 cm. or more horizontal at the fore-edge of the leaf 12, 6, or 8 and 4	15 cm. or more vertical at the head of the leaf 12	15 cm. or more vertical at the head of the spine fold 8 or 4	19 cm. or more horizontal in the middle of the spine fold 4 or 2	30 cm. or more vertical in the middle of the leaf 2, 4, 6, 8, or 10	Medium Formate
12° (see figs. 55-9 and note E)	long 12° (see fig. 54 and note D)	8° (see figs. 50-3 and note C)	4° (see figs. 47-9 and note B)	2° (see fig. 46 and note A)	

#### KEY II: Small Formats

#### (see figs. 60-3 and note F)

NOTE: Books in formats from 16° down to 128° were usually printed on the smaller sizes of paper, especially pot and foolscap, so that their cut heights are seldom much more than the minimum uncut heights given in this key. See also the table of typical leaf sizes in Key III.

			munumum uncut height	leaves per gathering	6. chain-lines
375 cm.	5.0 cm.	7·5 cm.	10.0 cm.	8 or 16	vertical
128º	$96^{\circ}$	320	long 24°		

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<ul> <li>9. chain-lines horizontal leaves per gathering 6 or 12 minimum uncut height 9.5 cm.</li> <li>6.3 cm.</li> </ul>	8. chain-lines vertical leaves per gathering 6 or 12 minimum uncut height 10.0 cm. 5.0 cm.	KEY II: Small Formats (cont.) 7. chain-lines leaves per gathering minimum uncut height 6.3 cm. 4.75 cm.
24° (the 16 way) 36°; 48°	18°; long 24° 72°	16°; 24° (the 16 way) 48° 64°

#### **KEY III:** Sheet Sizes

format	to find sheet size, multiply	et size,	dimensions of sentative sizes	dimensions of uncut leaves from three representative sizes of paper in cm. (height $\times$ width)	n three repre- height $ imes$ width)
	height of leaf by	width of leaf by	pot	demy	royal
0	-	I	39.0×31.0	51.0×38.0	60·0×46·0
20	I	2	31.0×19.2	380×25.5	46·0×30·0
4 <sup>0</sup>	2	2	19·5×15·5	25.5  imes 19.0	30.0×23.0
<del>8</del> 6.	2	4	15·5×9·75	19°0 × 12°75	23·0×15·0
long 12º	2	6	15·5×6·5	19·0×8·5	23.0×10.0
120	ယ	4	13.0×7.75	17·0×9·5	20.0×11.2
16º	4	4	9·75×7·75	12.75×9.5	15.0×11.2
<sup>081</sup>	ట	6	10.3×6.2	12.6×8.5	15·3×10·0
long 24°	3	œ	10·3×4·9	12·6×6·4	15·3×7·5
16 way	4	6	9·75×5·2	12·75×6·3	1.2.0×1.1
320	4	8	7.75  imes 4.9	9·5×6·4	11·5×7·5
360	6	6	6·5×5·2	$8.5 \times 6.3$	10 <sup>.0</sup> × 7 <sup>.7</sup>
48°	6	8	$6.5 \times 3.0$	$8.5 \times 4.75$	10 <sup>.0</sup> × 5 <sup>.75</sup>
64°	8	œ	4·9×3·9	$6.4 \times 4.75$	7.5  imes 5.75
720	6	12	5.2  imes 3.25	6·3×4·25	7.7 imes 5.0
96°	6	16	5·2×2·4	6·3×3·2	7·7×3·75
1,280	×	16	3.9  imes 2.4	4.75  imes 3.2	5.75  imes 3.75

### Notes on the format diagrams

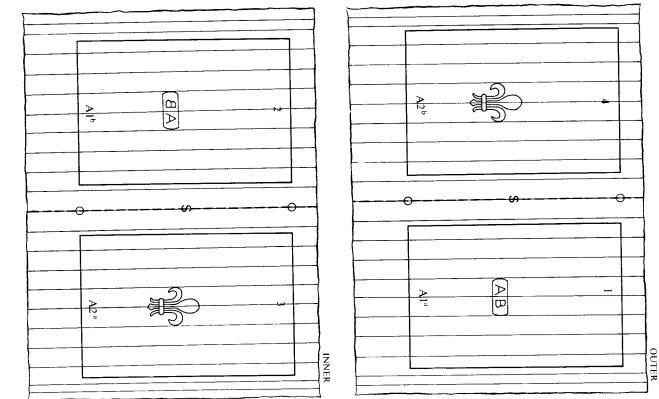
The diagrams are based primarily on impositions shown in the following four manuals: Wolffger, G., *Neu-auffgesetztes Format-Büchlein*, Graz 1673; Moxon, J., *Mechanick exercises*, London 1683; Fertel, M. D., *La science pratique de l'imprimerie*, Saint-Omer 1723; and Smith, J., *The printer's grammar*, London 1755.

The wavy sheet margins indicate deckle edges, and the grids of vertical lines represent the chain-lines and the tranchefiles (though not all paper had tranchefiles). Watermarks are shown in particular halves of the sheets, but they could as easily be in the opposite halves. (It will be remembered that not all paper was watermarked; and that countermarks, which are also shown, were rare before the mid seventeenth century.)

The layouts of the pages are shown in the orientation they had as a printed sheet lying on the open tympan of the press as seen by the pressman (these details are explained in the section on presswork).<sup>8</sup> The figure at the top of each page is the page number; and the signature letter and leaf number is given at the foot of every page in order to make the features of each leaf readily apparent (although in fact no more than the first few recto pages of each sheet were so signed). Point-hole positions are shown at o o (with alternative positions at x x in figs. 51, 56).

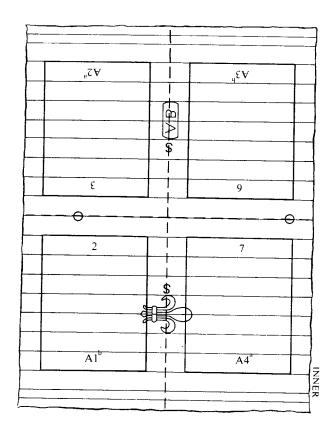
The cuts whereby sections of the printed sheet were removed before folding are indicated by plain lines with pairs of shears drawn at the ends. Folds are shown by dashed lines. Spine folds (marked S) connected conjugate pairs of leaves; but the other folds, although they made some of the edges conjoint when the sheet was first folded, were normally opened later by the binder's plough, or with a paper knife.

<sup>8</sup> In France and Germany quarto sheets were oriented the other way round; see p. 127.



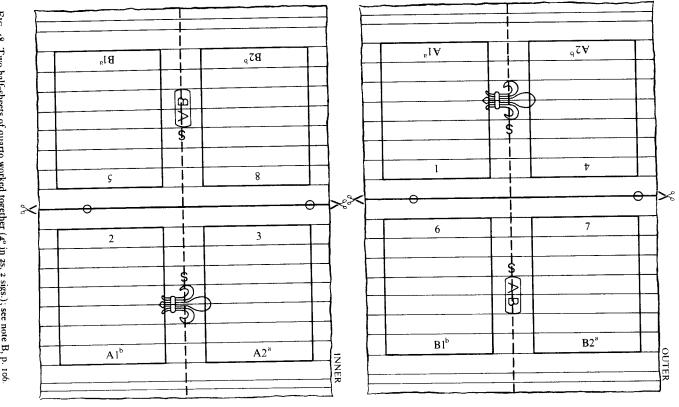
F16. 47. Sheet of quarto (4º); see note B, p. 106.

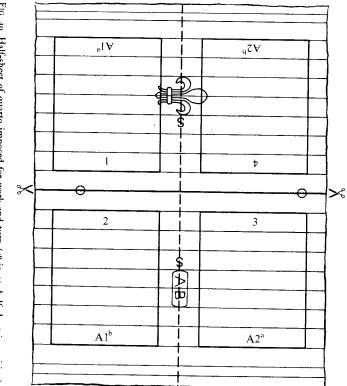
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1 1 2		A3	

F1G. 46. Sheet of folio (2°); see note A, p. 106.





 $F\rm IG$  .49. Half-sheet of quarto imposed for work and turn (4° in 2s, half-sheet imposition); see note B, p. 106.

FIG.  $_48$ . Two half-sheets of quarto worked together ( $_4^o$  in 2s, 2 sigs.); see note B, p. 106.



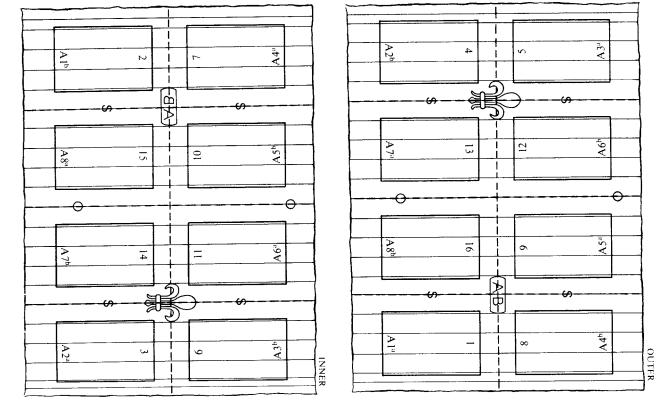
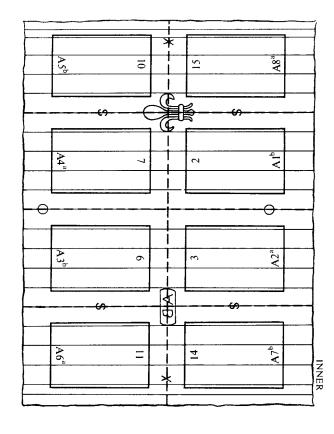
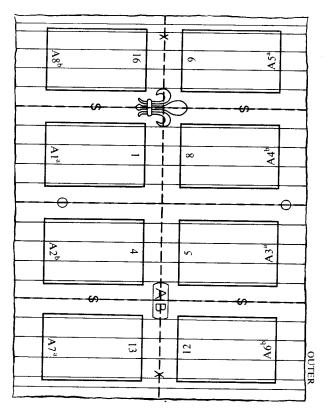
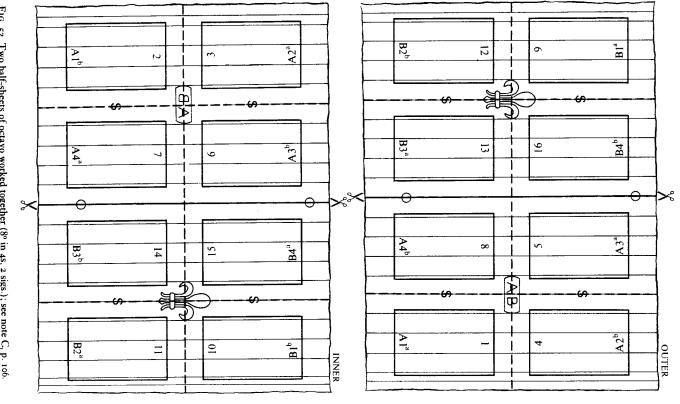
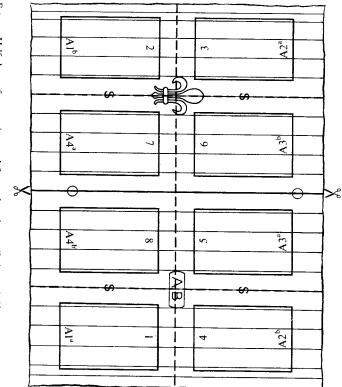


FIG. 51. Sheet of 'inverted' octavo (inverted 8º); see note C, p. 106.









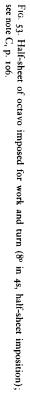
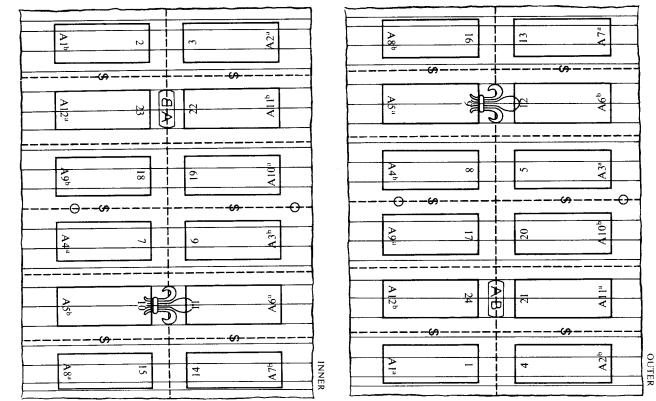


FIG. 52. Two half-sheets of octavo worked together (8° in 4s, 2 sigs.); see note C, p. 106.





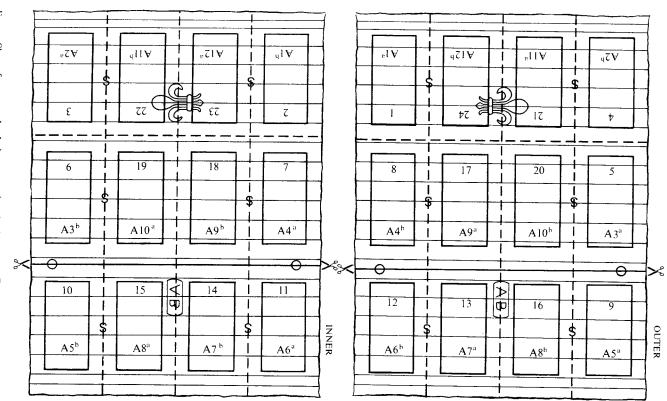
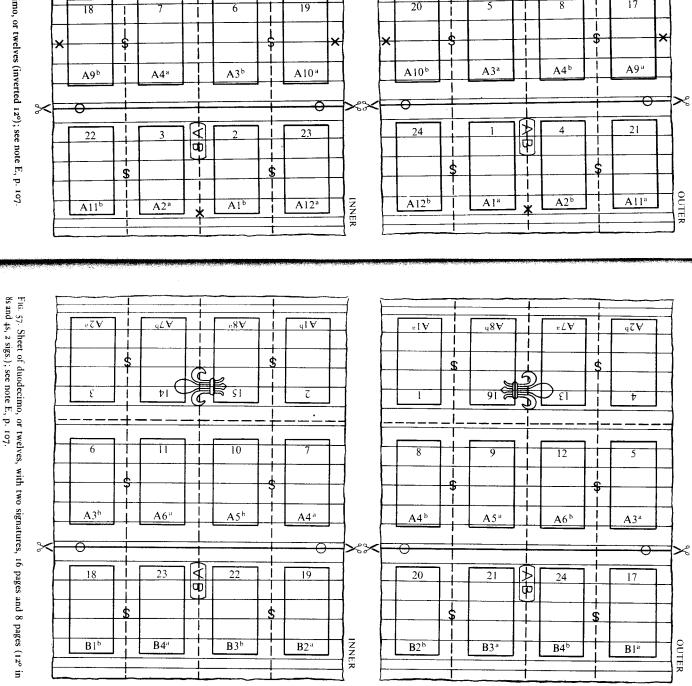


Fig. 55. Sheet of common duodecimo, or twelves (12°); see note E, p. 107.



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FIG. 56. Sheet of 'inverted' duodecimo, or twelves (inverted 12°); see note E, p. 107.

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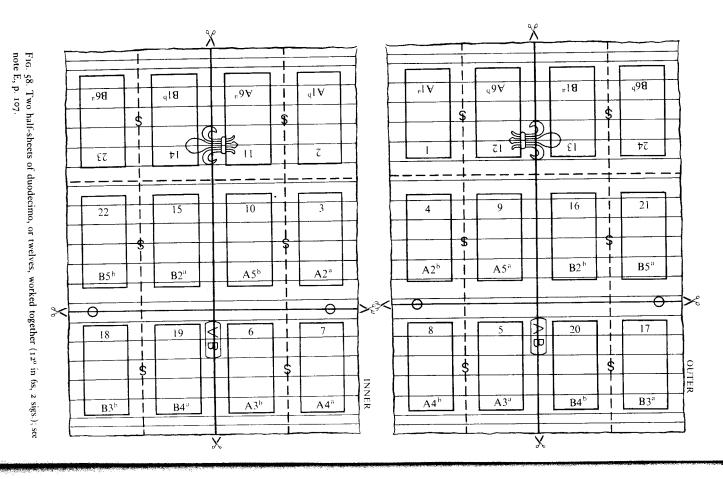
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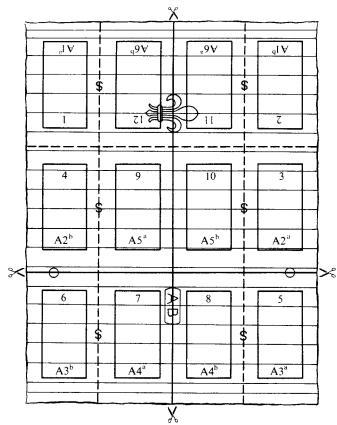
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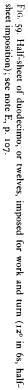
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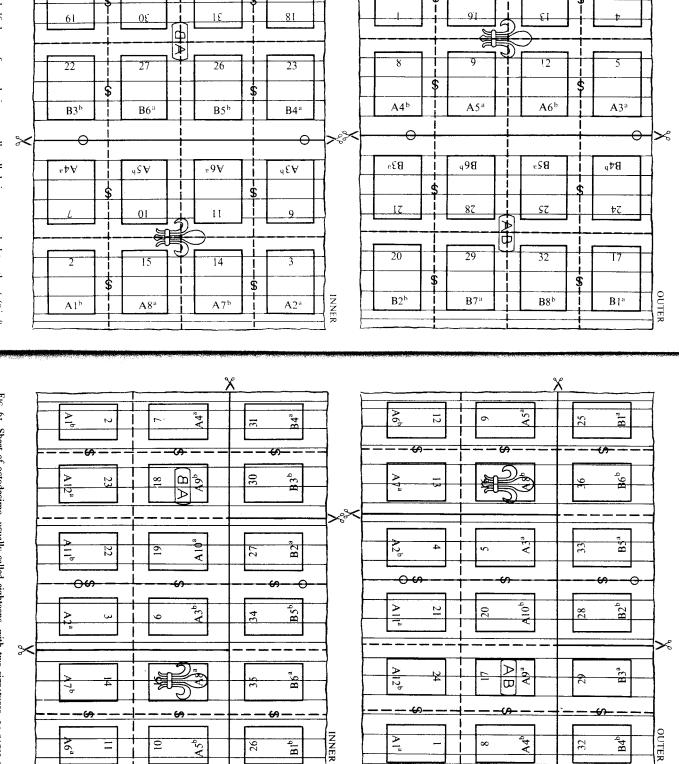
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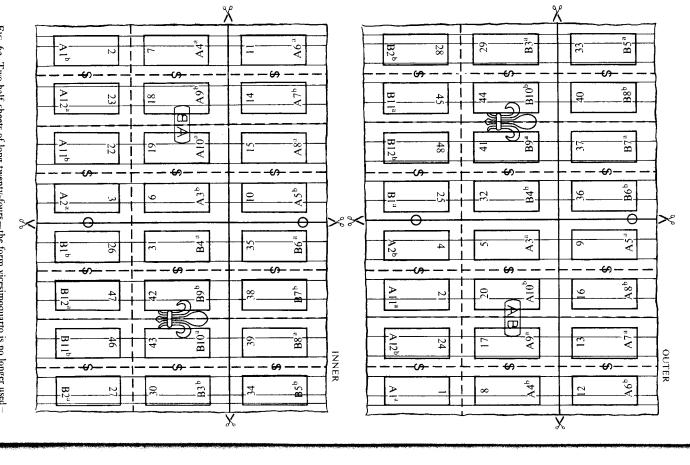
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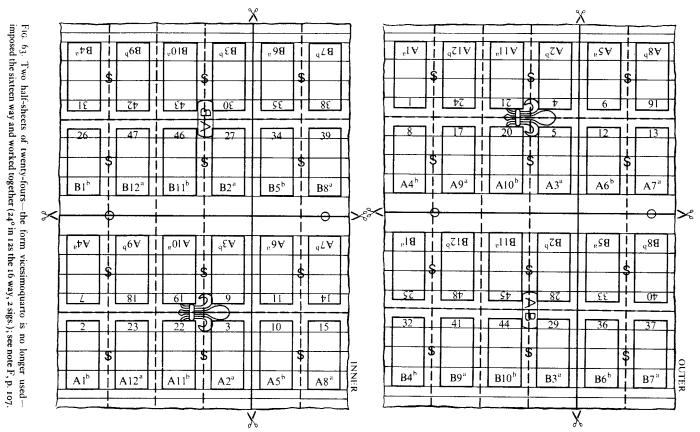
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FIG. 61. Sheet of octodecimo, usually called eighteens, with two signatures, 24 pages and 12 pages (18° in 12s and 6s, 2 sigs.); see note F, p. 107.

F1G. 62. Two half-sheets of long twenty-fours—the form vicesimoquarto is no longer used-worked together (long 24° in 12s, 2 sigs.); see note F, p. 107.





NOTE A: Impositions in 2° (figs. 44-6)

Watermark: in the middle of leaf 1 or of leaf 2.

Each sheet of quired folio  $(2^{\circ} \text{ in } 4\text{s}, 6\text{s}, 8\text{s}, \text{ or } 1\text{ os})$  was signed A<sub>1</sub>, B<sub>1</sub> (etc.) on the first page of the first sheet of the quire, A<sub>2</sub>, B<sub>2</sub> (etc.) on the first page of the second sheet, and so on.

Very large books with horizontal chain-lines may have been printed on half double-sized sheets (common in English newspapers of the eighteenth century), or they may be collections of broadsheets ( $1^{\circ}$ ). Broadsheets, if they were very wide, might alternatively be imposed sideways; a collection of such  $1^{\circ}$  sheets would have vertical chain-lines, but the watermark would be offset from the middle of the leaf.

### NOTE B: Impositions in 4° (figs. 47-9)

Watermark: (1) whole sheets: in the middle of the spine fold of leaves 1 and 4, or of leaves 2 and 3; (2)  $4^{\circ}$  in 2s: in the middle of the spine fold, or no mark.  $4^{\circ}$  was often quired in 8s until the seventeenth century; and in the fifteenth

century it was occasionally quired in 6s, 10s, or 12s.<sup>8a</sup> In France and Germany it was usual to lay 4° formes on the press the other

way round (so that page 1 printed at the frisket end of the tympan). It is normally impossible to tell whether 4° in 2s was printed by whole sheets

with two signatures, or by half-sheet imposition.

NOTE C: Impositions in  $8^{\circ}$  (figs. 50-3) Watermark: (1) whole sheets: at the head of the spine fold of leaves 1, 4, 5, and 8, or of leaves 2, 3, 6, and 7; (2)  $8^{\circ}$  in 4s: at the head of the spine fold of the

four leaves, or no mark. As with  $4^{\circ}$  in 2s, it is normally impossible to tell whether  $8^{\circ}$  in 4s was printed

by whole sheets with two signatures or by half-sheet imposition. Inverted 8° (fig. 51) can be told from common octavo by the different arrange-

Inverted of (118, 54) can be been to use room common our of the specially characteristic of sixteenthand seventeenth-century Italian books, where it was used in association with the alternative point-holes x x; but inverted 8° was also illustrated as a common German imposition by Hornschuch of Leipzig in 1608; its purpose may have been to get the first page of the sheet away from the edge of the paper.<sup>9</sup> There were half-sheet versions of inverted 8°.

### NOTE D: Impositions in long 12° (fig. 54)

Watermark: at the head of leaves 5 and 6, or of leaves 11 and 12.

Long 12° was commonly used for small devotional books in France, Germany, the Low Countries, Spain, and England during the first half of the sixteenth century, and it continued to be used in Spain for the rest of the sixteenth century and in Germany until the eighteenth century; elsewhere it disappeared, and the folding was not shown in any manual until 1770.<sup>10</sup>

<sup>8a</sup> GW 4645, 4217, 4245.

9 Cook, D. F., 'Inverted imposition', The Library, xii, 1957, pp. 193-6; Hornschuch, H., op. cit. p. 12.

<sup>-</sup> 10 Foxon, D. F., 'Some notes on agenda format', *The Library*, viii, 1953, pp. 168–70; Luckombe, P., *A concise history of . . . printing*, London 1770, p. 414.

An alternative Spanish version has the watermark at the head of leaves 1 and 2, or of leaves 7 and 8.11 The layouts shown in the late-eighteenth-century manuals were different again, but they are not known to have been used.

### NOTE E: Impositions in 12° (figs. 55-9)

Watermark: (1) common  $12^{\circ}$  whole sheets: at the upper fore-edge of leaves 7 and 8, or of leaves 11 and 12; (2) common  $12^{\circ}$  in 6s (two signatures): half the mark in the upper fore-edge of leaf 1, or 3, or 4, or 6; (3) common  $12^{\circ}$  in 6s (half-sheet imposition) half the mark in the upper fore-edge of leaf 4, or 6; (4) inverted  $12^{\circ}$  whole sheets: in the upper fore-edge of leaves 1 and 2, or of leaves 5 and 6; (5)  $12^{\circ}$  in 8s and 4s: in the upper fore-edge of leaves 7 and 8 of the 8-leaf section, or of leaves 3 and 4 of the 4-leaf section.

Duodecimos were folded by removing the offcut along the line indicated which was then folded up separately and quired inside (in 8s and 4s, alongside) the remainder of the folded sheet. Although it seldom happened in practice, it was possible to shuffle copies of the main sections and offcuts of  $12^{\circ}$  sheets or half-sheets and thus produce aberrant watermark patterns. Rules were occasionally printed as guidelines for making the offcuts.

Various alternative layouts were less commonly used. Inverted  $12^{\circ}$  (fig. 56) was, like inverted 8° (q.v.), especially characteristic of sixteenth- and seventeenthcentury Italian printing, where it was similarly used with the alternative pointholes x x in the *middle* of either the long or the short edges of the sheet (common  $12^{\circ}$  always had offset point-holes);<sup>12</sup> but inverted  $12^{\circ}$  does not appear to have been used in Germany. Two alternative English layouts are known: one (STC 23633, c. 1586) has the watermark on the upper fore-edges of leaves 9 and 10, or of leaves 11 and 12;<sup>13</sup> the other (Moxon, 1683) has the watermark in the upper fore-edges of leaves 7 and 8, or of leaves 9 and 12;<sup>14</sup> neither appears to have been common. There seems to be no clear evidence that the nineteenth-century imposition of  $12^{\circ}$  without cutting (see pp. 196–7) was ever used in the hand-press period.

## NOTE F: Impositions for small formats (figs. 60-3)

Only a few common impositions are shown here; and for each folding there were numerous alternative layouts. A variety of unusual impositions, with a commentary, is given in Savage, W., A dictionary of the art of printing, London 1841, repr. 1968.

The commonest of the small formats were 18° in 12s and 6s (or in 6s), and the two varieties of 24°, gathered in 8s or 12s; English printers normally imposed 24° for gathering in 12s, but many continental printers imposed 24° for gathering in 8s. Miniature books of the eighteenth century were sometimes in 32°; and Plantin in the sixteenth century employed what is perhaps the ultimate small folding: 128° in 8s.<sup>15</sup>

<sup>11</sup> e.g. Mares's Floreta española, Alcalá 1598 (Trin. Coll., Camb., G. 26, 28, uncut).

<sup>12</sup> Cook, D. F., op. cit., but the 12<sup>o</sup> imposition on p. 194 is wrongly illustrated, the four leaves in the middle being reversed.
<sup>13</sup> T., W., A godlie & comfortable letter [c. 1586], fragments as endpapers in U.L.C. D\*. 16. 32E.

<sup>14</sup> Moxon, J., op. cit., p. 225. <sup>15</sup> Kalendarium [etc.], Plantin, Antwerp 1570.