

DATED GREEK MINUSCULE MANUSCRIPTS
TO THE YEAR 1200

EDITED BY

KIRSOPP LAKE AND SILVA LAKE

VII

MANUSCRIPTS IN ROME, PART I

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BIBLIOTHECAE APOSTOLICAE VATICANAE SCRIPTORI EX PREFECTO BIBLIOTHECARIO
E CUIUS DOCTRINA AUXILIO AMICITIA TANTAM MERCEDEM SEMPER FECERUNT TOT STUDIOSI

D.D.D.

EDITORES

INTRODUCTION

THE dated manuscripts in this fasciculus are only a part of those in the Biblioteca Apostolica Vaticana in Rome. The remainder will be published in Fasciculi VIII and IX. So far as possible, we have endeavoured to present them in chronological order but, in some cases, this has proved impossible. The manuscripts which are not given in their chronological order will be found at the end of the section on the manuscripts in the Vatican, in Fasciculus IX.

In a few cases, the date of a manuscript differs considerably from that given in the catalogue, but under these circumstances we usually give the manuscript the position in the chronological scheme indicated by the date in the catalogue, since it seemed to us that this would facilitate matters for other scholars who know it only from previous references.

We wish to express our thanks to the entire staff of the Biblioteca Apostolica Vaticana, whose patience and co-operation made our task so much easier than it might have been, and particularly to the Prefect and to Monsignor de Vreese. Our gratitude is also especially due to Their Eminences Giovanni Cardinal Mercati and Eugene Cardinal Tisserant who, at the time when these volumes were first in preparation, were Prefetto and Proprefetto of the library and were prodigal of their time and their learning for our benefit.

Moreover, the elder of the two editors desires to express his indebtedness to the late Cardinal Ehrle, who lives on in the minds of so many who were helped by him in their youth and remember him in their later years.

KIRSOPP LAKE
SILVA LAKE

Rome, Italy
July, 1937

NOTE

SINCE it is inevitable that different students should wish to arrange the manuscripts included in this series in different ways it has been decided to leave the plates unbound. For purposes of publication, however, the manuscripts from each library are given in chronological order and numbered serially throughout the separate fasciculi. This serial number is repeated in the upper left-hand corner of each plate illustrating the particular manuscript to which the number refers. The plates themselves are also numbered serially, and the number of the individual plate is given in the upper right-hand corner of each.

We have reduced the descriptive material to a minimum, omitting details of exact size and such other data as may be found in the catalogues of the individual libraries. After some hesitation we included certain details, such as the colour of the ink and the quality of the parchment in each manuscript, which might seem unduly subjective.¹

The Ruling Types include, of course, many which are not found in the manuscripts described in this fasciculus. In their preparation a rigidly schematic treatment was adhered to. They are diagrams, not pictures. In particular, it would have been impossible to indicate in the diagrams whether the ruled lines ended evenly or unevenly, and whether in any particular instance the ruling was done more or less carefully. The dots indicate lines of writing for which there are no ruled lines.

Unless otherwise indicated, the plates are facsimiles, and in the few cases where this is not so there is at least a sample facsimile of the hand, or hands.

In transcribing the colophons abbreviations are expanded. The spelling of these expansions is conventionalized, although elsewhere the peculiarities of the individual scribes have been retained.

The last fasciculus will contain complete indices and the descriptions and facsimiles of any manuscripts which could not be inserted in their proper positions. We shall be extremely grateful for any information as to additions or corrections which should then be made.

¹ It is to be noted that "vermilion" has been used for reds which shade toward orange, and "carmine" for those which have a bluish tinge, but in describing the mss. on Mt. Athos this distinction was often ignored.

ROME, BIBLIOTECA APOSTOLICA VATICANA

258 COD. BARB. GR. 528

A.D. 892 (?), [A.D. 1073]

PLATES 453-457 AND 463

1. John Chrysostom, St. Ephraim. 2. Ruling Type I, 26d. 3. Signatures in the upper right-hand corner of the first recto, and the center of the lower margin of the last verso of each gathering; a cross in the center of the upper margin of the first recto of each gathering. 4. Parchment medium thick, smooth, greyish-yellow. 5. Ink black and vermillion. 6. Some initials and geometrical division-lines in red and blue, a little very dull yellow wash. 7. Writing pendent from the ruled lines. 8. There are two colophons: the first is above a note on f. 192 recto, at the end of the part of the volume devoted to Chrysostom; it gives the name of the scribe and the year. The book continues for a few lines in the same hand, the gathering numbers are continuous throughout and probably original. On f. 193 recto

the change to the second hand occurs and, except for occasional short bits by the first hand, this continues to the end of the volume. On f. 314 verso is a second colophon which is legible but probably not original. Just above it is a long erasure in which we believe we can see traces of the original colophon. The colophon on 192 recto, of which that on 314 verso is a copy, reads: + ειληφε τελος συν θεω η βιβλος αυτη δια χειρος πετρου του ευτελουσ μοναχου και ελαχιστου πρεσβυτερου ευχεσθε οι αναγινωσκοντες· ως δια τον κυριον + ✕ ετους κοσμου 578 (man. sec. 57) ινδικτιωνος. ια + 9. On f. 192 recto and verso is a list of the title deeds and possessions της υπεραγιας θεοτοκου μονης των κρινων. The ms. belonged in succession to Nicolas de Nicolis, St. Mark's in Florence, and to Carolus Strozze Th. fil.

259 COD. PAL. GR. 44

A.D. 897

PLATES 458-460

1. Psalter. 2. Ruling Type probably I, 2e. 3. Signatures in the upper right-hand corner of the first recto of each gathering. 4. Parchment thin and medium-thick, very smooth, once chalk-white, but now much yellowed. 5. Ink medium reddish-brown, one trace of faded carmine. 6. Very little ornamentation: a few capitals and one or two geometrical designs in the ink of the text. 7. Writing on

the ruled lines. 8. The colophon is at the end of the text in the same ink and a variation of the same hand: + εγραφη ουν η παρουνσα δελτος του ερμηνευτου ψαλτηρος, δια χειρος λεωντος ταβουλαριου μονοβασιας μηνι αυγουστω κη· ημερα β, ινδικτιωνος [ιε] ετους 596 ~ 9. The original second and third gatherings are missing.

260 COD. VAT. GR. 1660

A.D. 916

PLATES 461-462 AND 463

1. Menology. 2. Ruling Types I, 1a and I, 2c. 3. Signatures in the upper right-hand corner of the first recto of each gathering; a cross in the upper right and upper left of the first recto of each gathering. 4. Parchment medium-thick, smooth, greyish-yellow. 5. Ink medium to dark reddish-brown. 6. Initials and geometrical head-piece in the ink of the text. The only other ornamentation is at the end of the manuscript in the part which is by a different hand. 7. Writing on the ruled lines. 8. The colophon is at the end of the manuscript in the same hand and ink:

τετελεσται η παρουνσα βιβλος, μηνι μαρτιω κα ινδικτιωνος δ ετους κοσμου 598· γραφεισα δια χειρος ιωαννου ταπεινου και ελαχιστου μοναχου, επι ανατολιου του οσιωτατου ηγουμενου των στουδίου. 9. Folia 315 recto-322 verso are by a different hand, but may be original. They are inserted into a gathering, not between two. The ruling is different from that of the remainder of the manuscript, being the second of the types mentioned above, and there is no signature, but it contains the only ornamentation found in the text. (For second hand see Pl. 462.) This ms. was once in Grottoferata.

261 COD. VAT. GR. 2022

A.D. 954

PLATE 464

1. Monastic treatises. 2. Ruling type I, 1e. 3. Signatures in the lower right-hand corner of the first recto of each gathering, in uncials. 4. Parchment medium-thick, smooth, yellowish. 5. Ink very pale brown. 6. Some capitals and geometrical designs in the ink of the text. 7. Writing pendent from the ruled lines. 8. The colophon is at the end of the original manuscript in the same ink and a variation of the same hand. The important part has been reinked: εν ετι 58 κοσμου και τετρακοστω· εξακισχιλαιοντω· εγραφει αυτη η παναριστος βιβλος: παλαμαισ χρανταισ του κλη-

ρος μαρκου: ηνικα ζυγον υπεισηλθεν τον θειον: τω κη της ηλικιας χρονω. της σωματικης περιαγοντι βιου (?) δοξα τω θεω παντων ενεκεν· αιτησας δε την βιβλον συννοντι μου προσωπου ταυτης ουδι (?) ημαρτον τω... λομενον δε την διανοιαν εν ολιγοις χρονοις... οικος εν ετεραισ εξεφραξε λεξεσι· της διανοιας μεν ουσης της αυτης εν τη βραχυτατη παραλαλει (?) των λεξεων· δοξα τω θεω παντων ενεκα. 9. The original manuscript begins on f. 20 recto, and ends on f. 205 verso. The remainder of the volume is in several hands and came originally from more than one book. Frequent use of yellow wash in this part.

262 COD. VAT. GR. 2027

A.D. 959

PLATE 465

1. Monastic Treatises. 2. Ruling Type II, 1b. 3. Signatures missing, the manuscript has been much trimmed. 4. Parchment medium-thick to thick, greyish-white, smooth, very chalky, much hair-marked. 5. Ink dark-brown to black. 6. Capitals in outline and some geometrical designs in the ink of the text or in blue. A brown wash is often used and a blue more rarely. 7. Writing pendent from the

ruled lines. 8. The colophon is near the end of the manuscript in the same ink and a variation of the same hand: + εγραφη δε δια χειρος θεογνωστου απο μηνος ιουνιου δεκατησ μεχρισ μηνος ιουλιου ιζ' ο πανδεκτος του θεου κελευοντος και των αγιων αποστολων ετους συξ' ινδικτιωνος β'. 9. A number of marginal notes in Latin.

263 COD. VAT. GR. 1591 (F)

A.D. 964

PLATES 466-467 AND 469

1. Bioi. 2. Ruling Type II, 1f. 3. Signatures in the upper right-hand corner of the first recto of each gathering, in uncials. 4. Parchment medium-thick, smooth, not slippery, yellow to white on the flesh side, yellow and rather coarse on the hair side. 5. Ink medium-brown. 6. Capitals and geometrical head-pieces in yellow, vermillion and green, all of very low chroma; some yellow wash. 7. Writing pendent from the ruled lines. 8. There are two colophons, both being in the ink of the text and a variation of the same hand: (i) ο θεος μνησθη μοι βασιλειωτω ξυσαντη + ✕: βασιλειου μοναχου δος χριστε παλα τοις πονοις .: ωσπερ τοις πεινοσι υδυσ ο αρτος ουτω και τοις γραφουσιν ο εσχατος στιχος .:

(ii) συν θεωτερμα πυκτιδος ✕: γραφεν δια χειρος βασιλειου μοναχου ταπεινου και αμαρτωλου μηνη δεκεμβριω κδ' ημερα σαββατω ωρα s' .: ινδικτιωνος η ετους συογ .: σεληνησ κυκλω ιγ' .: 9. Clearly this manuscript was originally two, and one of the colophons is at the end of each part; the first ends on f. 108 verso, there is then a blank folium and the manuscript begins again on 110 recto, from which point the gatherings are also numbered, beginning with α. All of both parts of the manuscript are by one hand with the exception of a part of ff. 65 verso and 66 recto (See plate 466) which are by a second scribe. Once at Grottaferrata.

264 COD. VAT. GR. 539

A.D. 975

PLATES 468 AND 469

1. Chrysostom. 2. Ruling Type II, 4a. 3. Signatures in the upper right-hand corner of the first recto of each gathering. 4. Parchment medium-thick, smooth, white on the flesh side. 5. Ink dark-brown and black, blue, vermillion. 6. Titles and lemmata in vermillion; capitals and geometrical division lines in vermillion and bright blue. 7. Writing pendent from the ruled lines. 8. The colophon, much obliterated, is at the end of the text in the same hand

and ink: + ετελιοθει συν θεω + μηνι οκτωβριω . ημερα γ ωρα . . ετους απο κτισεωσ κοσμου συπδ ινδικτιωνος δ(?) επι ιωαννου(?) ανακτος 9. ff. 1r-19v are not original. The ms. begins with gathering κη on f. 20 recto. This is the fifty-first Homily. The preceding folios, 1-19, are in a different and much later hand, and are not dated. A later note says that the manuscript belonged εν τη τησ παμμακαριου μονη.

265 COD. VAT. GR. 2155 (F)

A.D. 981

PLATES 470-471

1. Chrysostom. 2. Ruling Type II, 34e. 3. Signatures in the lower left-hand corner of the first recto of each gathering. 4. Parchment thin and medium thick, very smooth, yellowish-white. 5. Ink medium-brown. 6. All capitals and geometrical division lines in the ink of the text. 7. Writing pendent from the ruled lines. 8. The colophon is at the end of the manuscript in the same ink and in a variation of the hand which is found throughout the volume: + ετελειωθη η παρουμεσ βιβλος. μηνι απριλιω ινδικτιωνος θ' ετους απο κτισεωσ κοσμου συπθ' επι επιφανιου μοναχου

του ευλαβεστατου ηγουμενου μονησ των αβραμιτων γραφεισα δια χειρος διονυσιου μοναχου + 9. An additional note in a later hand reads: ρυνασ ο κογχυλασ και αναξιουσ δουλους χριστου ευρον το παρον βιβλιον: και ηγορασα αυτο και εμαθον οτι απο [την μεγαλην μονην?] του λικοβουνου εστιν ηθελησα αυτω παλιν? ενεξαι εισ την τιαυτην αγιαν μονην υπερ ψυχικησ μου σωτηριασ. παρακαλω δε τον οσιωτατον καθηγουμενον του τιουτου ναου και τους συν αυτου αδελφους ινα με γραψουν εισ το αγιον και ιερον ευαγγελιον: οπου και οι γονοις μου και εμε: ρυνα και μαριασ: ευτελης ιερομοναχος ησαιας:

266 COD. VAT. GR. 2138 (r^o)

A.D. 991

PLATE 472

1. Gospel lectionary. 2. Ruling Type II, 2a. 3. Signatures in the upper right-hand corner of the first recto of each gathering. 4. Parchment thick, slippery-smooth, once quite white but now greyish-yellow. 5. Ink dark-brown and dark-carmine. 6. Elaborate initials in yellow, blue, green and carmine; yellow, green and blue wash, sometimes in alternating lines. 7. Writing pendent from the ruled lines. 8. The colophon is at the end of the text in the same ink and a variation of the same hand, ornamented with the green

and blue wash used elsewhere in the manuscript: τετελειωται συν θεω το εκλογαδην του ευαγγελιου τουτου. δια χειρος κυριακου πρεσβυτερου τλημωνος του καλογηρου: εν ετει συζθ: ινδικτιωνος δ: μηνι ιουνιω. εισ τας ιβ'····· απο δε της ενανθρωπησεως του κυριου ημων ιησου χριστου. ετη εννακοσια, εννηκοντα εν····· ςα. Second colophon on f. 52 recto: κυριακος μοναχος πρεσβυτερος. εν αστεω καπουησ εγραψεν. 9. This manuscript is not complete, the gatherings being numbered 9–19 inclusive. It was at one time in Grottaferrata.

267 COD. URB. GR. 20 (r^o)

A.D. 992

PLATES 473–474

1. Chrysostom. 2. Ruling Type II, 28b. 3. Signatures in the lower left-hand corner of the first recto, and the lower right-hand corner of the last verso of each gathering. 4. Parchment thin, very smooth, chalky-white on the flesh side, slippery and yellow on the hair side. 5. Ink medium reddish-brown. 6. Small, solid capitals and very small geo-

metrical division-lines in the ink of the text. 7. Writing pendent from the ruled lines. 8. The colophon is on f. 361 verso and is not the original, although quite probably an accurate copy: + εγραφη η παρουνσα βιβλος δια χειρος γρηγοριου μοναχου αμαρτωλου μηνι αυγουστω ιβ' ινδικτιωνος ε' ετους ςφ:—9. ff. 1–4 and 360–361 are replacements.

268 COD. VAT. GR. 2020

A.D. 993

PLATES 475–476

1. Maximus, etc. 2. Ruling Type II, 1f. 3. Signatures missing. 4. Parchment medium-thick, smooth, chalky, yellow, crackly. 5. Ink medium to dark-brown, dark-vermilion. 6. Fantastic capitals and geometrical head-pieces in vermilion, yellow, green, blue and lilac; much yellow and some green wash. 7. Writing pendent from the ruled lines. 8. The colophon is at the end of the text in the same hand

and ink: επληρωθη η βιβλος αυτη χειρι κυριακου μοναχου αμαρτωλου πρεσβυτερου μηνι ιουνιω. λ: ημερα ς: ωρα ς: ετους ςφα: εν το αγιω μοναστηριω λεγομενω φηλλινω της αστεως καπουησ(?) παρακαλω δε etc. 9. The manuscript is probably by one hand, but the type of writing varies considerably from page to page.

269 COD. OTT. GR. 422 (r^o)

A.D. 1004

PLATES 477–478

1. Monastic treatises. 2. Ruling Type II, 20a. 3. Signatures in the lower left-hand corner of the first recto and the lower right-hand corner of the last verso of each gathering. 4. Parchment thin to medium-thick, shiny-yellow, very dirty, hair-marked. 5. Ink medium to dark reddish-brown, black. 6. Some initials and geometrical head-pieces in carmine or carmine and dull-blue; titloi in carmine.

7. Writing pendent, on, across, or between the ruled lines. 8. The colophon is at the end of the text in the same hand and ink: + εγραφη η παρουνσα βιβλος χειρι θεοφανους ταπεινου μοναχου και επληρωθη μηνι αυγουστω ινδικτιωνος β: ετους ςφιβ····· 9. This codex is a unit, but the ink varies greatly and it is possible that there is more than one hand.

270 COD. OTT. GR. 414

A.D. 1005 (?)

PLATES 479–481 AND 492

1. Monastic treatises. 2. Ruling Type I, 38c. 3. Original signatures in the lower right-hand corner of the first recto of each gathering. 4. Parchment thin to medium-thick, smooth, very yellow, sometimes quite coarse. 5. Ink medium to dark reddish-brown. 6. Solid capitals in the ink of the text, a few geometrical division-lines and initials in red and yellow; yellow wash over capitals and lemmata. 7. Writing pendent from the ruled lines. 8. There is no colophon. The date is taken from the calculation for Easter, in which the first year given is 1004 and the last

1013. The ink and hand of the tables are the same as that part of the text which immediately precedes them: ετους ςφιγ ινδικτιωνος γ'····· σεληνησ κυκλος ιε. ηλιου κυκλος ιζ. νομικον πασχα μαρτιω κθ ημερα ε. χριστιανον πασχα απριλλιω α' η αποκρεα φευροναριω δ. 9. There are at least four hands in the original manuscript: ff. 230–237 are probably not a part of the original manuscript, although in one of the hands, or in a hand very similar to that of one of the scribes of this manuscript. The first gathering is defective, having only six instead of eight leaves.

271 COD. VAT. GR. 1873

A.D. 1011

PLATE 482

1. Psalter. 2. Ruling Type I, 2c. 3. Signatures missing, the manuscript has been trimmed. 4. Parchment medium-thick, chalky-smooth, much yellowed and very dirty. 5. Ink medium to dark reddish-brown, vermillion. 6. Titloi and some capitals in vermillion; initials in red, blue and yellow. 7. Writing pendent from the ruled lines. 8. The colophon is at the end of the Psalms, in the vermillion ink

of the capitals of the text and in the same hand as the text itself: ✕ τελος του δαυιδικου ψαλτηρος: εγραφη δε ο ψαλτηρ ουτος, ετους σφιβ ινδικτιωνος θ ✕ 9. Ff. 1-11, 180-201, 373-378, are paper replacements which may perhaps be dated by the note at the bottom of the colophon page: το αυτο βιβλιον εχει χρονους τριακοσιοστους ν δ εν σωογ και της ινδικτιωνος γ:

272 COD. PII II 21

A.D. 1013

PLATES 483-489

1. Gregory Nazianzenus, Basil etc. 2. Ruling Type II, 1f. 3. Signatures missing. 4. Parchment thin to medium-thick, smooth, very yellow, crackly. 5. Ink medium to dark-brown, dull-carmine. 6. Some geometrical division-lines and capitals in carmine and brown. 7. Writing pendent from the lines. 8. The colophons are on ff. 48 verso and 133 verso: i. ετελειωθη ο βιος και τα θαυματα του οσιου πατρος ημων και αρχιεπισκοπου βασιλειου καισαρειας καππαδοκias δια χειρος κωνσταντινου πρεσβυτερου ελαχιστου και αμαρτωλου· αλλ' ωσ δια τον κυριον πατερες και αδελφοι: ικετευσατε τον θεον οπως συγχωρει τας αμαρτιας μου ας εποιησα εν τω βιω τουτω τω ματαιω + ii. επληρωθη ο λογος αναστασιου του σινα ορους ο εν τω εκτω ψαλμω ετει σφκα ινδικτιωνος ια δια κωνσταντινου πρεσβυτερου:—Folium 133 verso has been re-

inked but not otherwise tampered with. A note on f. 76 recto reads: μνημησ χαριν εγραψα σοι ιω περ. την δε συγγραφην διδασκαλε φιλτατε ιν' οτ' εντυχης μηδ' ολωσ επιλησει βασιλειου του σε ποθουντος σου τιμουντος. 9. The hands alternate throughout the manuscript. Hand 1 (Pl. 486-487): ff. 1-48 verso, 81 recto-133 verso, and at scattered points after 137 verso. Hand 2 (Pl. 483): ff. 49 recto-64 verso. Hand 3 (Pl. 484): ff. 68 recto-76 recto, 78 recto-80 verso. Hand 4 (Pl. 485): ff. 76 verso-77 verso. Hand 5 (Pl. 488): ff. 134 recto-137 verso, and then alternating with Hand 1 to 253 verso. 253 verso ends incomplete, and 254 recto-256 verso are not included in the gathering, and are by still another hand (Pl. 489).

273 COD. VAT. GR. 619

A.D. 1014 (?)

PLATES 490-491 AND 492

1. Psalter with commentary. 2. Ruling Type I, 36a. 3. Signatures in the upper right-hand corner of the first recto of each gathering in vermillion ink. 4. Parchment medium-thick and thick, smooth, glossy, yellow. 5. Ink medium-brown and vermillion. 6. Initials and capitals in vermillion, blue, green and yellow; headings, reference marks, and parts of the text in vermillion; geometrical division lines in the same colours as the initials; some yellow wash. 7. Writing pendent from the ruled lines. 8. There is no

colophon; the date is calculated from the Paschal Tables. The first of these is fragmentary, but enough remains to show the same arrangement as that on the following page, and it can therefore be calculated that the first year given was 1015; the last is 1032. 9. The commentary is sometimes in minuscule, sometimes in semi-uncial, and is probably by several hands. The book contains considerable supplementary matter at the beginning and at the end; ff. 1-6 are not original.

274 COD. VAT. GR. 2030

A.D. 1015 (?)

PLATE 493

1. Ephraim, etc. 2. Ruling Type II, 4b. 3. Signatures missing; the manuscript has been trimmed. 4. Parchment thin to medium-thick, smooth, very chalky, greyish-white on the flesh side, yellow on the hair side. 5. Ink dark-brown. 6. Capitals and geometrical head-pieces in yellow, vermillion and lilac, all of low chroma; yellow wash. 7. Writing pendent from the ruled lines. 8. The colophon is on f. 105 verso, at the end of the text and in the same hand and ink. The date of the manuscript is almost obliterated, but we read it as 1015. Moreover, Sept. 24, 1015 was a Saturday in the 14th indiction. The date 994, which has sometimes been given, is a mistake: + οταν παντα πληρων τη δοξα τετε-

λεσθαι η βιβλος αυτη δια χειρος μαρκου αναξιου κληρικου παναμαρτωλου μονησ του αγιου μεγαλομαρτυρος σωζοντος μηνι σεπτεμβριω κδ ημερα σαββατω ωρα 5 ετει σφκδ ινδικτιωνος ιδ εν ημεραισ βασιλειου και κωνσταντινου. αλλ ο προσεδρευων και εντυχανων. μνησθη του ποθω πολλω γραψαντος βιβλων ταυτην: σοι χριστε δια ταυτην την εμοισ πονοισ καταπαυσιν:—συγχωρησατε μου πατερες και αδελφοι ωσ δια τον κυριον εαν επτεσα εισ τον εργον τουτο κατα αγνοιαν· οτι και η γραφοντες παραγραφουν αλλα μαλλον ευχεσθε μου οπως λαβω απο των αμαρτιων μου την συγχωρησιν αμην. πληρωμα παντων των καλων. ωσπερ ξενοι etc. 9. The original manuscript ends with 105 verso, the rest is from another volume.

275 COD. VAT. GR. 1675

A.D. 1018

PLATES 494-496

1. Gregory the Theologian etc. 2. Ruling Type II, 41a. 3. No signatures; the manuscript has been very little trimmed, if at all. 4. Parchment medium-thick and thick, smooth, chalky, very white. 5. Ink medium-brown and carmine. 6. Some geometrical head-pieces and initials in gold, red and blue; all capitals, titloi etc. in carmine. 7. Writing on the ruled lines. 8. The colophon is at the end of the original manuscript in the ink of the manuscript and a variation of the same hand. If there are two scribes (see below) it is probably by the first: *εδωρηθη η βιβλος αυτη τη ευαγγελστατη μονη του αγιου ιωαννου του προφητου προδρομου και βαπτιστου, των στουδιου παρα νικολαου πριμικηριου και αρχοντος του χρυσοχειου επι νικολαου του ευλαβεστατου μοναχου πρεσβυτερου και ηγουμενου της αυτης αγιωτατης μονης μηνι*

μαρτιωι ινδικτιωνος πρωτης ετους απο κτισεως κοσμου εξακισχιλιοστου πεντακοσιοστου εικοστου εκτου. The words *παρα . . . νικολαου* are discoloured by acid but undoubtedly original. 9. Ff. 334-341 were probably not originally a part of this manuscript. A note on the fly-leaf indicates that it once belonged to the library of the Badia of Grottaferrata; this fly-leaf apparently belongs to the present binding and is paper. The note below the colophon seems to read in part: *βιβλος πρεσβυτερου και βιβλιοθεκαριου της αυτης αγιας μονης των στουδιου.*

The considerable variation in appearance would indicate that there were two scribes in this manuscript (see plates 494 and 495), but we were unable to find the point at which one stopped and the other began.

276 COD. VAT. GR. 414

A.D. 1021 (?)

PLATES 497 AND 505

1. Basil. 2. Ruling Type II, 19c. 3. Original signatures probably in the lower right-hand corner of the first recto of each gathering, but the manuscript has been trimmed and few traces are left. 4. Parchment thin, medium and thick, smooth, oily-looking, coarse, yellow, very pliable. 5. Ink medium-brown and carmine. 6. Titloi, initials and very

small geometrical division-lines in carmine. 7. Writing pendent from the ruled lines. 8. The colophon is at the end of the text in the same ink and a variation of the same hand: + *εγραφη δια χειρος εμου ηλιου ευτελους και χθαμαλου πρεσβυτερου επληρωθη δε. μηνι απριλλιω ι ινδικτιωνος γ' ετους σφκθ*: 9. The indiction is one year wrong for the date.

277 COD. VAT. GR. 1815

A.D. 1023

PLATE 498

1. Monastic treatises. 2. Ruling Type II, 1c. 3. Signatures upper right-hand corner of the first recto of each gathering. 4. Parchment medium-thick and thick, fairly smooth, greyish-white, much yellowed, pliable. 5. Ink black. 6. Initials in dull red, blue, orange and yellow; some yellow wash. 7. Writing pendent from the ruled lines. 8. The colophon is at the end of the text in the same hand

and ink: + *εγραφη ο οσιωτατος και μακαριος εφραιμ δια χειρος ιωνα του αμαρτωλου ετους σφλα κατ επιταγην του οσιωτατου και πνευματικου ημων πατρος νικονος ου ταις ικεσιας και παντων των θεοφορων και αγιων πατερων δωη ημιν ο κυριος μεριδα και κληρον μετα παντων των αγιων αυτου αμην*: 9. A note on f. 9 recto says that this ms. belonged to the monastery of Grottaferrata.

278 COD. VAT. GR. 1506

A.D. 1024

PLATES 499-500

1. Apostolic Constitutions. 2. Ruling Type II, 28a. 3. Signatures in the upper right-hand corner of the first recto of each gathering. 4. Parchment medium-thick, glossy, smooth, yellowed-white. 5. Ink medium-brown of low chroma, and dull-vermilion. 6. Capitals, titloi etc. in vermilion; initials and geometrical division-lines in blue, rose, yellow and green, all dull and ugly. 7. Writing pendent from the ruled lines. 8. The colophon is at the end

in the same hand and in the carmine ink used elsewhere; the page is very dirty and almost illegible, but the date itself is clear: + *τερμα ειληφεν η βιβλος των διαταξεων των αγιων αποστολων δια χειρος αθανασιου του ευτελους αββα πρεσβυτερου μηνι μαρτιω κε ημερα δ ωρα γ ινδικτιωνος ζ' ετους σφλβ* + 9. According to a note in the front, the manuscript was once the property of the library of the Badia of Santa Maria di Grottaferrata.

279 COD. VAT. GR. 1613

ANTE A.D. 1025

PLATES 501-503

1. Menology. 2. Ruling Type I, 38a. 3. Signatures missing. 4. Parchment medium-thick, very smooth, once very white. 5. Ink medium-brown, gold. 6. Initials gold; an elaborate miniature on each page. 7. Writing pendent from the ruled lines. 8. A colophon at the beginning, which will be reproduced in Fasc. ix, states that this menology was written for Basil. The language proves that this must have been an emperor:

ενταυθα νυν σκοπησον ορθως ο βλεπων.
αριστον εργον εξ αριστων πραγματων
εργον θεου καλλιστον εκπληττον φρενας
εργον το τερπον πασαν εικοτως κτισιν
ανω γαρ αυτοσ ως θεος και δεσποτης
αστρων χορειαισ ζωγραφησας τον πολον
ον οια δερριν εξετεινε τω λογωι,
κοσμον δαδουχει πανσοφω προμηθια
κατω δ' ο τουτον εικονιζων τοις τροποις
αναξ ολησ γησ ηλιος της πορφυρας
βασιλειος το θρεμμα της αλουργιδος
κρατιστος αμφοιν και τροπαιοις και λογοις

ως αλλον οντως ουρανον τευξας βιβλον
εκ δερρεων ταθεισαν ως εχει φυσισ
φερουσαν ως φωστηρας ωραιουσ τυπους
πρωτον μεν αυτου του θεανθρωπου λογου
επειτα μητροσ της τεκουσης ασπορωσ
σοφων προφητων μαρτυρων αποστολων
παντων δικαιων αγγελων αρχαγγελων
των ορθοδοξων πασαν ευφραίνει φρενα
τερπει δε πασαν τερπνοτητι και θεαν
αλλ' ουσπερ εικονισεν εκ των χρωματων
ευροι βοηθουσ παντας εκ των πραγματων
κρατους συνεργουσ συμμαχουσ εν ταισ μαχαισ
παθων λυτρωτας φαρμακευτας των νοσων
εν τη κρισει πλεον δε προσ τον δεσποτην
θερμους μεσιτας προξενουσ και της ανω
δοξης αφραστου και θεου σκηπτουχιασ

There were only two emperors named Basil and this colophon must refer to the second. The ms. must therefore have been finished before 1025, when Basil II died.

280 COD. VAT. GR. 341

A.D. 1025 (?)

PLATES 504 AND 505

1. Psalter. 2. Ruling Type I, 26c. 3. Original signatures missing. 4. Parchment medium-thick and thick, glossy-smooth, soft, very yellow. 5. Ink dark-brown and carmine, sometimes rather faded, vermillion. 6. Head-pieces, titloi and capitals in carmine or vermillion. 7. Writing pendent from the ruled lines. 8. The supposed date is at the beginning of the manuscript, in the calculations of the time from creation: + ψηφοι διαφοροι ηλιου σεληνη και ινδικτιονος. ετη απο κτισεωσ κοσμου εως του κατακλισμου:

βσμβ. και απο του κατακλισμου, εως αβρααμ, ετη [α 2^o hand]
ρπηγ. και απο αβρααμ εως ιησου χριστου. ετη βος (s by second
hand) και απο ιησου χριστου εως σημερον ακθ. ομου απο κτι-
σεωσ κοσμου ετη σφκθ. It is not confirmed by the calculations
on f. 13 verso; which read: + ινδικτιωνος η εν τω ετει τω
σφλγ. θρηνοσ μεγα ινδικτιωνος η: κυκλος ηλιου θ κυκλος σε-
ληνησ ις: η αποκρεα φευρουαριω κα νομικον πασχα απριλλιω ις
ημερα ζ: χριστιανον πασχα απριλλιω ιη ινδικτιωνος ιγ
These notes may have no bearing on the date of the ms.

281 COD. VAT. GR. 1981

A.D. 1027 (?)

PLATES 506-507

1. Monastic treatises. 2. Ruling Type I, 2e. 3. Signatures missing. 4. Parchment medium-thick and thick, smooth, somewhat chalky, much hair-marked. 5. Ink medium greyish-brown. 6. Capitals in the ink of the text; small geometrical division lines in green and lilac; yellow wash over titloi etc. 7. Writing pendent from the ruled lines. 8. There is no colophon. The date, which we have

taken from the catalogue, is presumably based on the lists of bishops, consuls and emperors. The previous catalogue recorded this as a tenth century manuscript, probably because the emperor who seems to be ruling is Romanus. From the context this must be Romanus I, whose reign ended in 943. 9. The manuscript is probably by a single hand.

282 COD. CHIG. GR. 18

A.D. 1030

PLATES 508-509

1. John Elachistes. 2. Ruling Type I, 13a. 3. Signatures missing. 4. Parchment medium-thick, smooth, chalky, yellowed. 5. Ink medium-brown, bright-vermillion. 6. Titloi, etc. vermillion; head-pieces and initials in vermillion, green, gold and the ink of the text. 7. Writing pendent from the top line and on the bottom line; no guide lines between these. 8. The original colophon is at the end of the manuscript and in the ink and a variation of the hand

of the text. The first line, however, is the only part of the original still completely legible, the second line being later and over an erasure: ετελειωθησαν συν θεω τα ρ κεφαλαια ινδικτιωνος ιγ 9. We believe that there are only three hands in the manuscript, but there may be more.

283 COD. VAT. GR. 1650

A.D. 1037

PLATES 510-516

1. Acts and Epistles. 2. Ruling Type II, 1f. 3. Signatures in the upper right-hand corner of the first recto of each gathering. 4. Parchment medium-thick, sometimes glossy-smooth, sometimes chalky, very white on the flesh side, crackly. 5. Ink medium and dark-brown. 6. Capitals usually in the ink of the text, but sometimes with a little vermilion. 7. Writing pendent from the ruled lines. 8. The colophon is at the end of the text in the same ink and a variation of the same hand: + ειλῆφε τέρμα βιβλος ἡγλαιομένη· χριστου φερουσα τους θεοφθογγους λογους· εγραψε ταυτην νικολαος εν ποθω· εν επισκοποις αρχιερευσ υπαρχων· γαιας καλαβριτιδος ριγιου πολισ· και σικελιας θρηνακριτιδος χωρας· θησαυρον αυτην ωσπερ αφθαρτον μεγα· εχειν θελησας παντος ευκλεεστεραν. χρυσου σμαραγδου τ' αργυρου τε πορφυρας και μαργαρων τε των σελασφορων λιαν· υλησ τε πασης φιλτατης ψευδολογω· τα φθαρτα γαρ πεφυκε τερπειν αφρονων. κτηνων δικην αισθησιν οι χριστου λογοι· τερπουσιν φωτιζουσιν εμφρονων νοας· και προξενουσι των μελλοντων το κλεος· (13 unimportant lines) νικολαον θαυμαζε τησ ευβουλιασ τον αυτον επισκοπον τον προρη-

θεντα σπουδασμα πολλοισ ουτος πριν εσπουδασμενον· και σπουδασαντα συντονως προθυμιας· και καλλιεργησαντα κοσμοισ ποικιλοισ· τους μεν ξενιζει τους ορωντας ως εχει· τοις του θεου δε ρημασιν ψυχοτροφοισ· ευεργετει απαντας ακρωμενους· ενταυθα την θελγουσαν εικοτως λυραν· κινων τελων συνκινει και τους λιθους· οθεν πλανε σιγησον ορφαιος λυρα· πονοις γαρ νικολαος ηρμοσε ξενην· καθ'ημερουσαν την λιθοτροπον φυσιν (5 unimportant lines) εγραφη αυτη η δελτος δια χειρος θεοδωρου κληρικου σικελιωτου κατ επιτροπην νικολαου επισκοπου κτητορος ταυτης· εν ετει απο κτισεως κοσμου ετει σφμε ινδικτιωνος ε κυκλοσ σεληνης θ κυκλοσ ηλιου κα και επληρωθη μηνι ιαννουαριω εισ τον αυτον χρονον ημερα σαββατω ωρα γ· 9. It is possible that the part of the volume before f. 161 recto was not originally the same manuscript; at this point the ruling type changes and also the character of the parchment. Moreover the gatherings are not numbered beyond f. 160 verso. The same hand, however, occurs in both parts. We are convinced that there are several hands in this ms., but cannot find the exact points at which each begins.

284 COD. VAT. GR. 1215

A.D. 1038

PLATE 517

1. Anastasios of Sinai. 2. Ruling Type I, 2c. 3. Signatures missing, the manuscript has been trimmed. 4. Parchment thin to medium-thick, glossy, very yellow, was white. 5. Ink dark-brown. 6. Small capitals in the ink of the text. 7. Writing pendent from the ruled lines. 8. The colophon is at the bottom of f. 164 recto, and again, with slight

changes, at the end of the manuscript; the first of these is in what appears to be the ink of the text, and possibly in a variation of the same hand: ετελειωθη χαριτι χριστου βυβλος του αγιου πατροσ αναστασιου· δια χειρος λεοντος αμαρτωλου πρεσβυτερου. ετη σφμς μαιω ινδικτιωνος δ.

285 COD. BARB GR. 319

A.D. 1039

PLATE 518

1. Four Gospels. 2. Ruling Type I, 31a. 3. The signatures, which have usually been cut off, were in the lower right-hand corner of the last verso of each gathering. 4. Parchment thin, very glossy, supple, yellow. 5. Ink dark-brown, faded-carmine. 6. Titloi, initials, geometrical head-pieces and canon tables in faded carmine; yellow wash in canon tables. 7. Writing usually pendent, but sometimes across the ruled lines. 8. The colophon is at the end of the manuscript in the same hand and ink: + εγραφη χειρι λεοντος? πρεσβυτερου και ηγουμενου(?) καλληγραφου του φογλα(?) αυταδελφου μηνι οκτωβριω ινδικτιωνος η ετους σφμη· οι αναγινωσκοντες ευχεσθε αυτω αμα τω κεκτημενω + 9. Three notes are concerned with the later history of the ms., two of them serving to date ff. 175-214 as written in the year 1168. F. 174 verso. First note: + ταυτην την ιεραν βιβλον. των προσταγματων του θεου· και νομον τον υπαρχοντα πρω των αιωνων. ζιλω θειω φερωμενος λεων ο ευκλεστατος και θεοφιλεστατος και θεω ευαρεστος επισκοπος ανδιδων εξονισατο

υπερ κα δυναριων· ην εν χειριζωμενος φερει τη γλωττη και την δυναμην του οι καθηργνοιει· εαν την πραξιν ευαργος εκβιβασει, σελασφορος ωφθησει εν τη μελλουσι δικει· ει δε εν παγι εισ ιμα των γηνων· ασβεστον αυτον το πυρ πρωετυμασι· οι αναγινωσκοντες κ.τ.λ. F. 174 verso. Second note: + καγω δε ο ευτελης μοναχος βαρθολομαιος ο του πολυχρονι· ωνισαμενος ταυτην την ιεραν βιβλον των δ'αγιων του χριστου ευαγγελιων. εισ ιεροσολυμα εισ νομισματα τρεια εν τω σχος ετι μηνι μαρτιω και δια το μη εχειν μηνολογιον ηγουν πινακα. εγραψα αυτο ηδιοχειρι, συν και αποστολικων αναγκαιων, οι αναγινωσκοντες κ.τ.λ. F. 214 recto: οι αναγινωσκοντες ευχεσθε καμοι τω ταπεινω βαρθολομαιω τω απο του βριτζιανου, ινα επιτυχω της ανωκληρουχας των δικαιων αμην· θεου δε ευδωκουντος. δευτερ(ον)α. . . . αν εισ ιεροσολυμα εισ προσκυνησιν το πρωτον εν τω σχλς ετη. το και δευτερον εν τω σχος. οταν και την παρουσαν βιβλον ηγορασα: αναξιου οντος μου· οίδα και το αγιον φως τω μεγιστω σαββατω ηλθεν ωρα θ εκεισε εισ τον αγιον ταφον του χριστου.

286 COD. OTT. GR. 457

A.D. 1039

PLATES 519-520

1. Simeon Metaphrast, Ephraim Syrus, etc. 2. Ruling Type II, 8a. 3. The signatures are in the lower left-hand corner of the first recto, and the lower right-hand corner of the last verso of each gathering. 4. Parchment medium-thick, chalky, smooth, very yellow with a greyish tinge. 5. Ink medium and dark-brown, faded-carmine, vermillion. 6. Titloi and capitals in vermillion or carmine. 7. Writing pendent from the ruled lines. 8. The colophon is at the end of the text in the same ink and a variation of the same hand:

·: τέλος της πρωτης βιβλου εφραιμ του συρου:—
χειρι γραφησα βαρναβα πρεσβυτερου:—
αναξιου τε και ελαχιστου παντων:—

οταν εν ταυτη παρακαλω ω φιλοι:—
εντυγχανεται μεμνησθε μου του ταλα:—
ινα την λυσιν αμαρτιων κομισω:—
και ευρω χαριν ενωπιον κυριου:—
εν τη ημερα τη φοβερα εκεινη:—
θεω τω δοξα αμην εισ τους αιωνας:—
ετελειωθη τον νοεμβριον μηνα:—
η βιβλος αυτη μονησ της του σωτηρος:—
ευχαισ αγιων πατερων βοηθουντων:—
επι ανακτος μιχαηλ φιλοχριστου:—
και ζωης πορφυρογεννητου αυγουστης:—
ινδικτιονος ογδοησ τοτε ουσης:—
ετους δε παλιν χιλιοστου εξακισ:—
πεντακοσιοστου σαρακοστου ογδου:—

287 COD. VAT. GR. 2002

A.D. 1052

PLATE 521

1. Tetraevangelion. 2. Ruling Type II, 3a. 3. Signatures missing. 4. Parchment medium-thick, smooth, chalky, yellow. 5. Ink dark-brown and vermillion. 6. Initials and head-pieces in vermillion and yellow wash. 7. Writing pendent from the ruled lines. 8. The colophons are at the end of the Gospels of Mark and of John, in the same ink and a variation of the same hand. At end of Mark:

ετελειωθη το ευαγγελιον το κατα μαρκον θεου βοηθουντος μηνι
ιουνιω εν ημερα ε του αγιου βαρθολομαιου του αποστολου ωρα γ
της θειας λειτουργιας + At the end of John: γραφεν δια
χειρος κωνσταντινου αμαρτωλου και ταπεινου πρωτοπαπα οικων
εν πολει ταβερνων μηνι σεπτεμβριω τελειωθη εισ τας ζ ημερας β
ωρα δ ετους σφξα ινδικτιωνος s ηλιου κυκλω η σεληνησ κυκλω ε
·:·:·: + παρων της ηγεμονιας γεωργιλα στρατηγου καλαβριασ ·:

288 COD. VAT. GR. 2082

A.D. 1052 (?), 1055 (?)

PLATE 522

1. Monastic treatises. 2. Ruling Type I, 25a. 3. Signatures missing. 4. Parchment medium-thick, chalky, yellow, not crackly. 5. Ink dark-brown and silver. 6. Titloi in silver; initials in silver, green, yellow and brown. 7. Writing pendent from the ruled lines. 8. The colophon is at the end of the text in the same ink and probably the same hand: *μνησθητι κυριε, του ποθω κτισαντος την τιαυτην δελτον. κε ινδικτιωνος(?) ετους σφξγ οσπερ ξενοι χαιρουσιν ιδιν πατριδα ουτως καμοι το γραψαντι ηδν τέλος ετελειωθη συν θεω η δελτος αυτη δια χειρος θεοδωρου ταπεινου πρεσβυτερου*

μονησ(?) των αγιων αποστολων μηνι μαρτιω(?) εισ τας κ ημερας
σαββατω ωρα θ βασιλ [ευντος . . .] πορφυρογεννητου ηγεμονευων-
τος της καλαβριασ πατρικου. The remaining three
lines are exasperating. Few complete words can be deciphered, and among them only *τας χωρας* and *φραγκων* seem important. The end is the common formula: *χειρ μεν η γραψασα σιπεται ταφω*. 9. The date has usually been read *σφξ* (= 1052), but we think the *γ* is part of it, separated by a flaw in the parchment.

289 COD. PAL. GR. 259

A.D. 1054

PLATES 523-524

1. Chrysostom. 2. Ruling Type II, 24b. 3. Signatures in the lower right-hand corner of the first recto and the lower left-hand corner of the last verso of each gathering; a cross in the center of the upper margin of the first recto of the gathering, in the first part of the manuscript. 4. Parchment thin and medium-thick, chalky, smooth, greyish-yellow. 5. Ink medium and dark-brown, carmine. 6. Small capitals in carmine; initials and geometrical head-pieces in miniature style. 7. Writing pendent from the ruled lines. 8. The colophon is at the end of the text in the same ink and a variation of the same hand: *ετελειωθη συν θεω η θεια δελτος αυτη δια χειρος νικηφορου πρεσβυτερου του*

χρυσου(?) εκ προσταξεως και μισθαποδοσιας του δουλου του θεου
θεοφανους πρωτοπατρικου. και κωνσταντινου πρεσβυτερου και
σκευοφυλακος και των λοιπων ιερεων και προσιτεθη εν τη υπ' αυτους
αγιωτατη καθολικη και υψιλη εκκλησια του χωριου γορδ. . . : ει
τισ επ ονοματι μεν του αρχαγγελου μιχαηλ ιδρυται τιμαται και
προσκυνειται και εισ το της υπερειδοξου δεσποινης ημων θεοτοκου
ονομα. και του εν βασιλευσι πρωτου και μεγαλου κωνσταντινου οι
ουν εντυχωντες και φοβουμενοι τον θεον. ευχεσθε αυτους αμα τω
γραψαντι οπως ιλιος αυτοις γεννη κυριος εν τη ημερα της κρι-
σεως ·: + ειληφε τερμα μηνι σεπτεμβριω α ινδικτιωνος η ετους
σφξγ +

290 COD. VAT. GR. 526

A.D. 1058

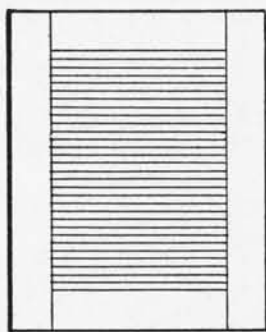
PLATE 525

1. Chrysostom. 2. Ruling Type II, 34e. 3. Signatures in the lower right-hand corner of the first recto and last verso of each gathering. 4. Parchment medium-thick, smooth, chalky, much yellowed. 5. Ink dark-brown and medium-carmine. 6. Initials in gold; capitals and lemmata

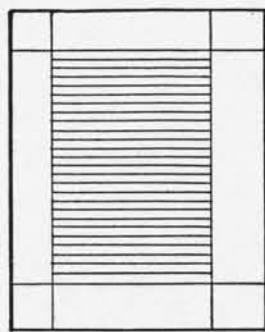
in carmine; geometrical head-pieces in miniature style. 7. Writing pendent from the ruled lines. 8. The colophon is at the end of the text in the same hand and ink: *ετους
σφξς' ινδικτιωνος ενδεκατης*:— 9. This manuscript is in three volumes.

Vat. Gr. 1666 dated A.D. 800 and Vat. Gr. 354 dated A.D. 949 are uncial mss. and are therefore not included in this series.

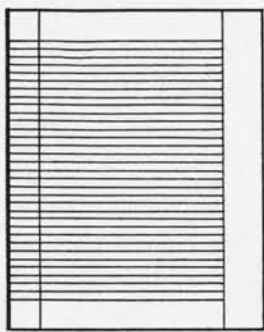




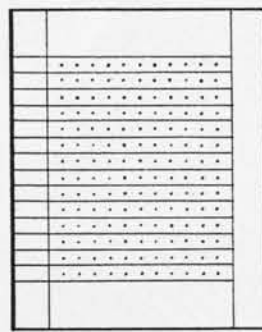
I,1a



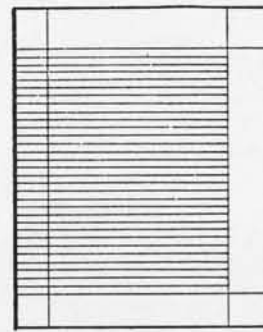
I,1b



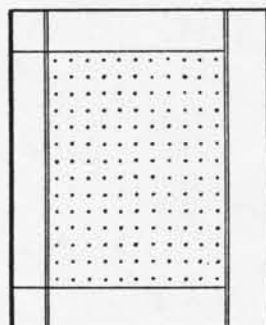
I,1c



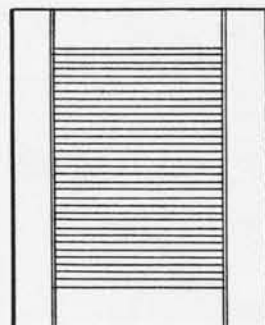
I,1d



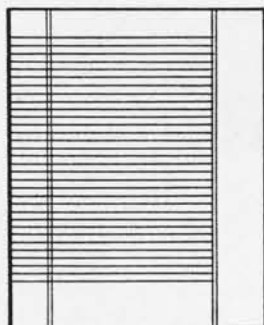
I,1e



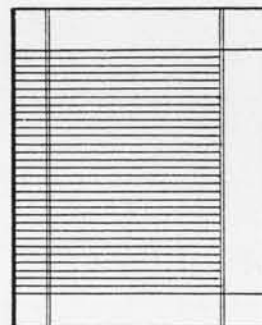
I,2a



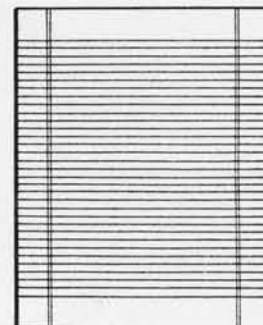
I,2b



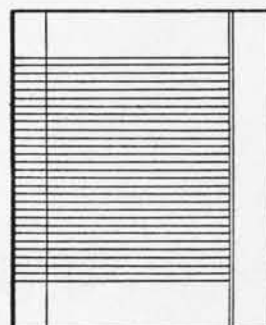
I,2c



I,2d



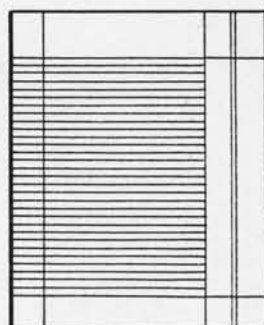
I,2e



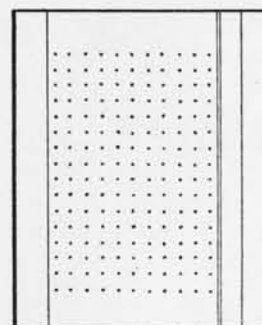
I,3a



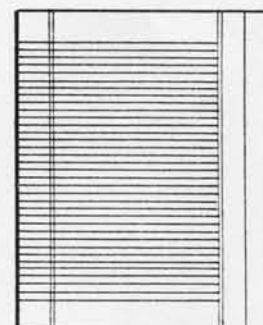
I,4a



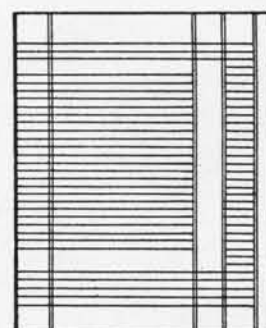
I,5a



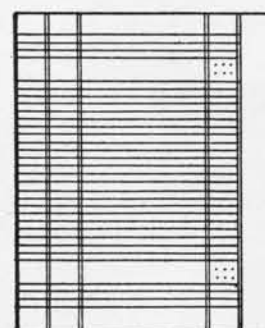
I,6a



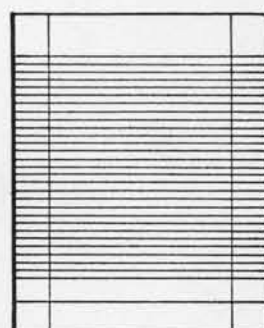
I,7a



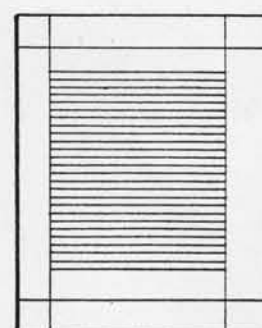
I,8a



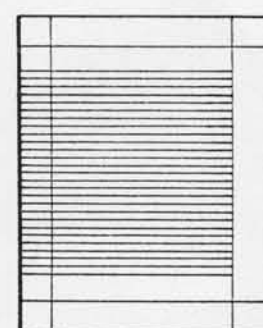
I,8b



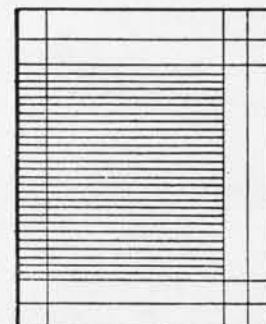
I,9a



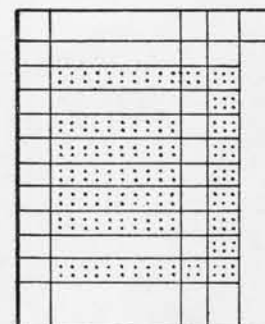
I,10a



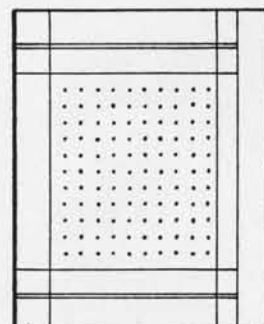
I,10b



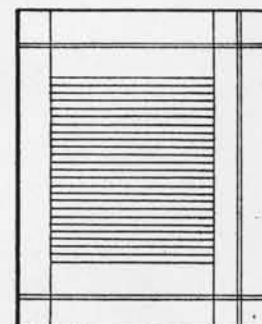
I,11a



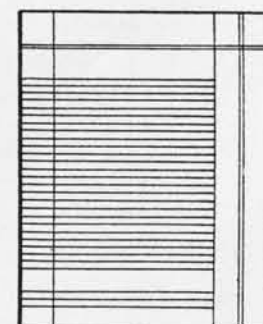
I,12a



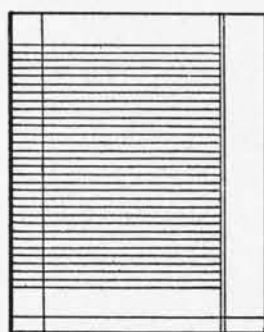
I,13a



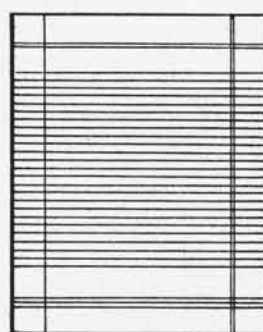
I,14a



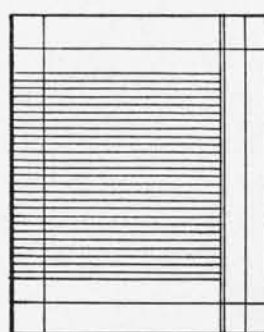
I,15a



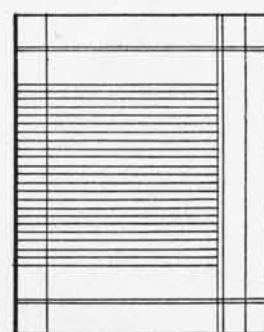
I,16a



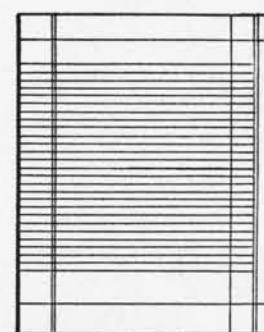
I,17a



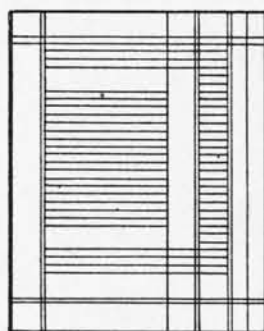
I,18a



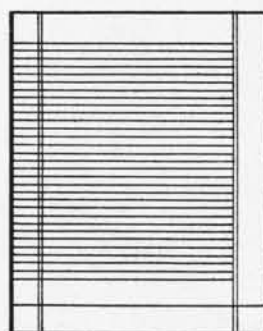
I,19a



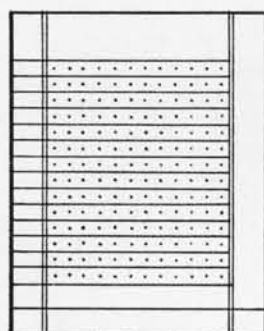
I,20a



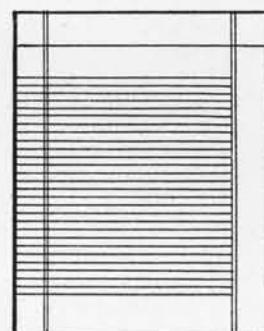
I,21a



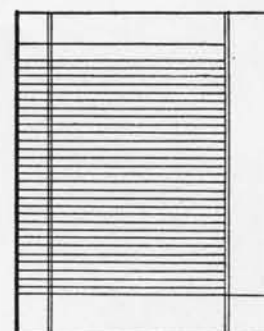
I,22a



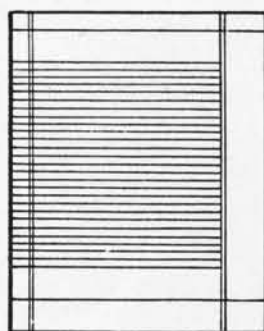
I,22b



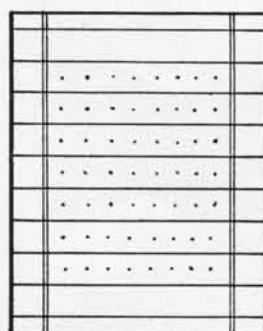
I,23a



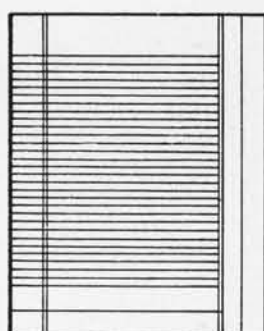
I,23b



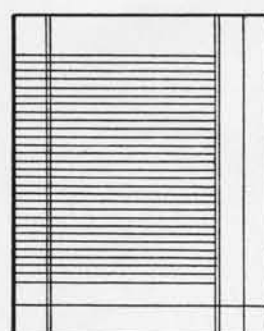
I,24a



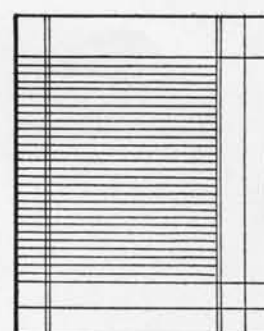
I,24b



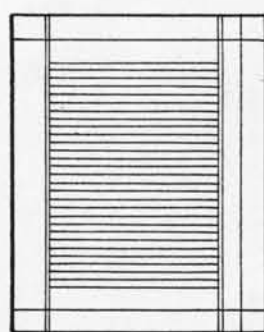
I,25a



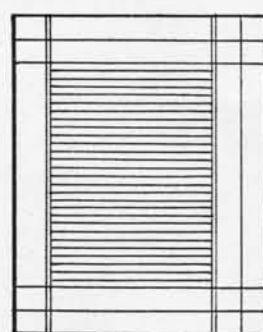
I,25b



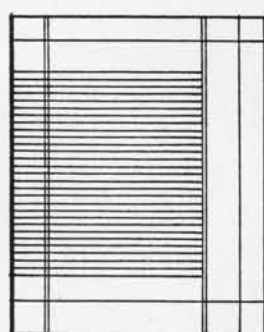
I,25c



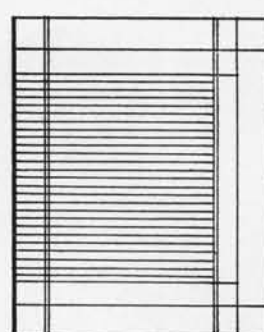
I,26a



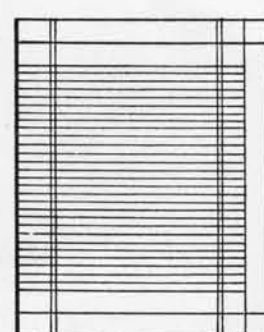
I,26b



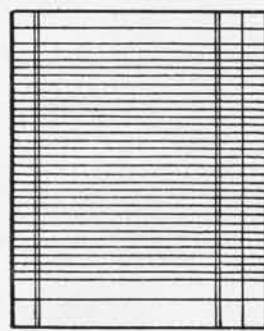
I,26c



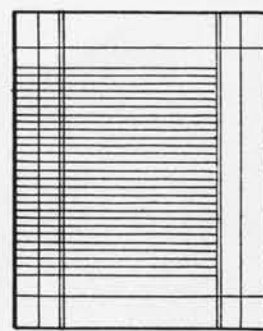
I,26d



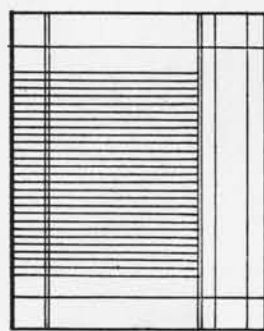
I,26e



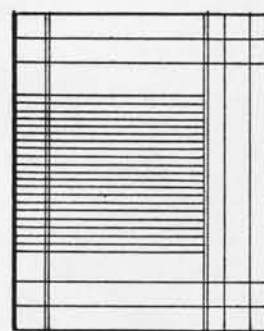
I,26f



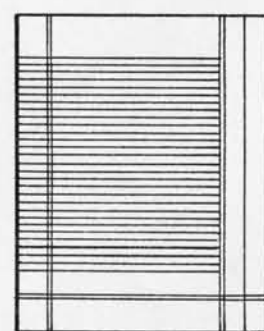
I,27a



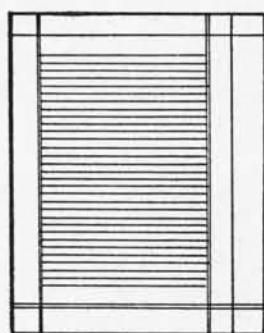
I,28a



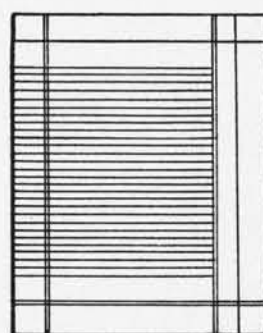
I,29a



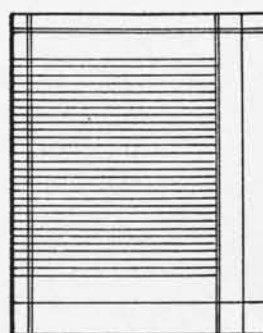
I,30a



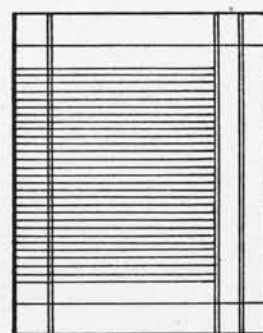
I,31a



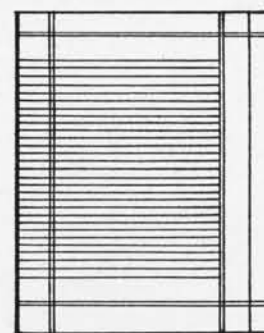
I,31b



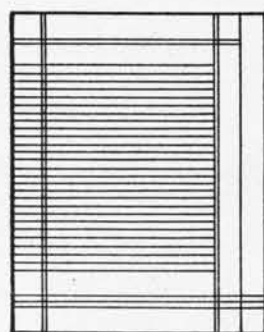
I,32a



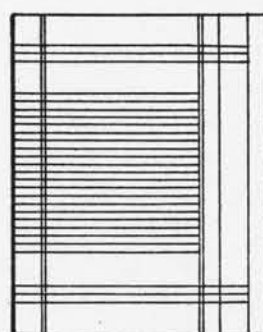
I,33a



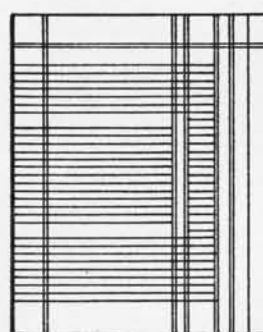
I,34a



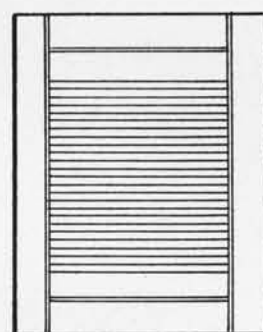
I,35a



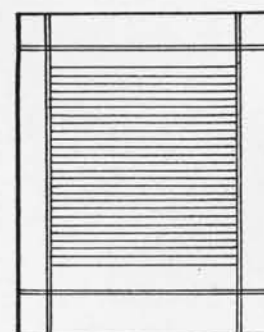
I,36a



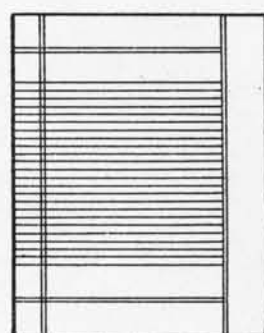
I,37a



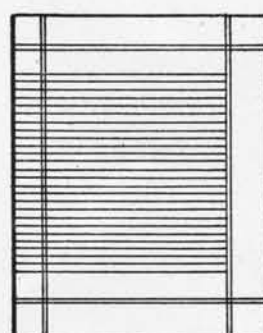
I,38a



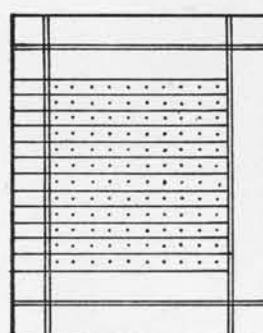
I,38b



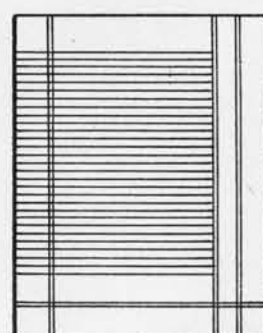
I,38c



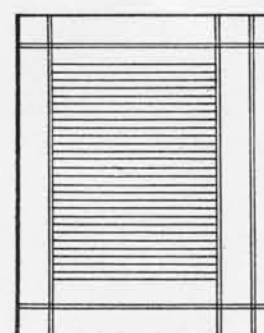
I,38d



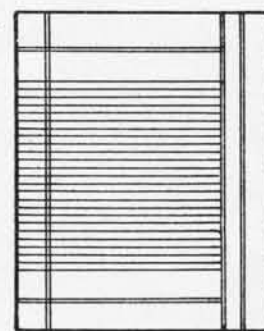
I,38e



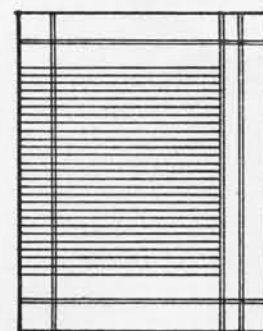
I,39a



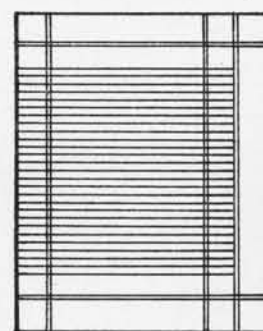
I,40a



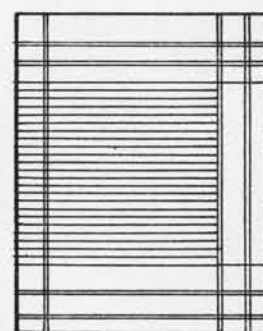
I,40b



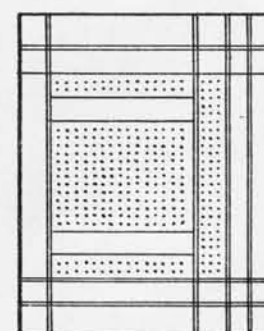
I,40c



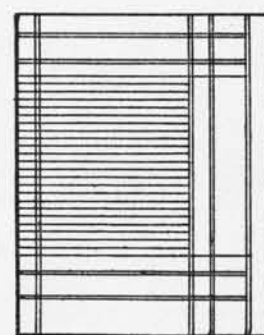
I,40d



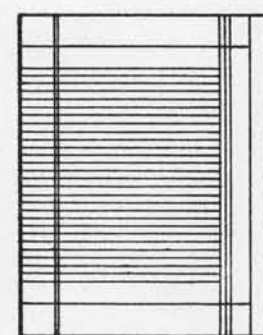
I,41a



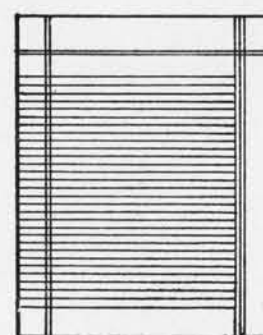
I,42a



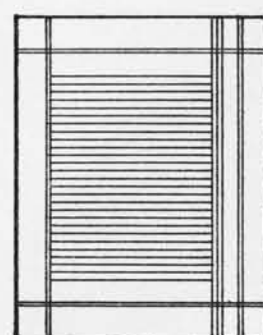
I,43a



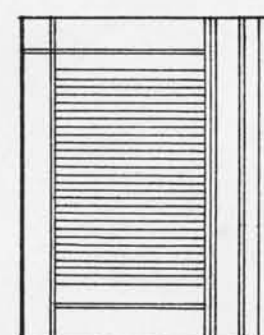
I,44a



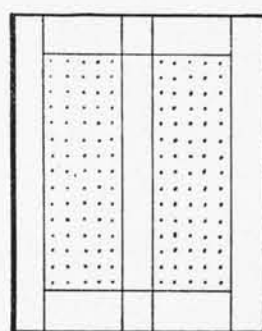
I,45a



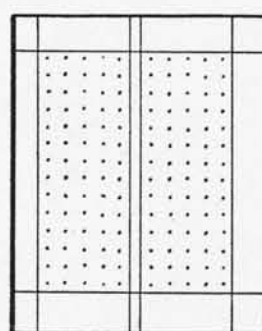
I,46a



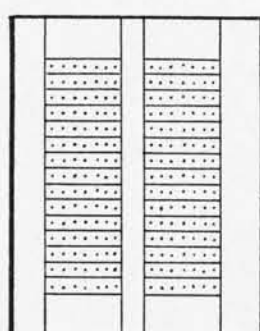
I,47a



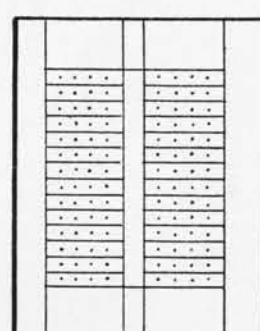
II,1a



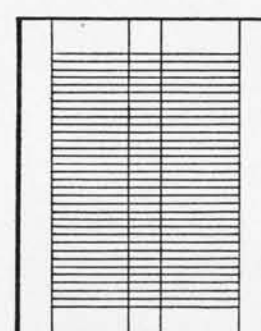
II,1b



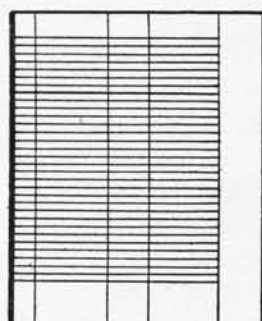
II,1c



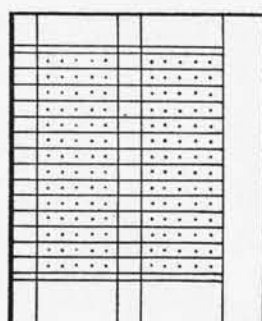
II,1d



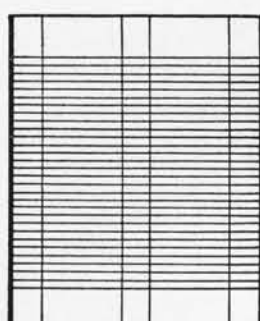
II,1e



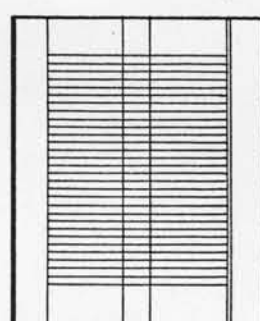
II,1f



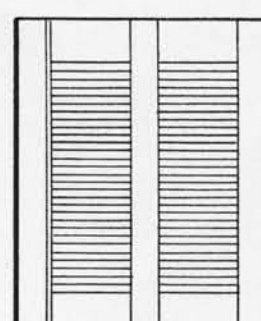
II,1g



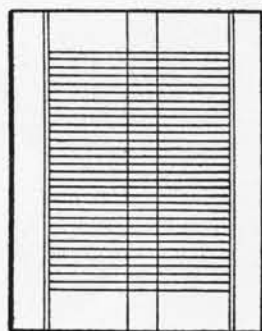
II,1h



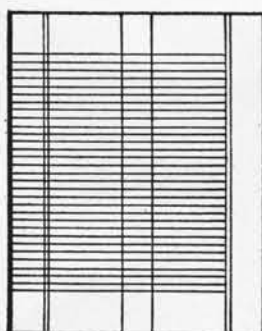
II,2a



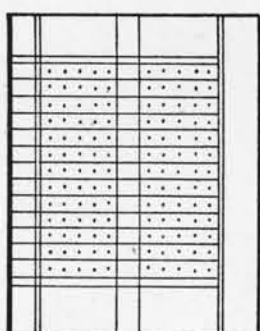
II,3a



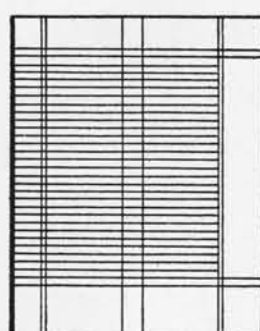
II,4a



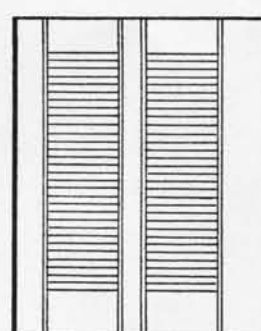
II,4b



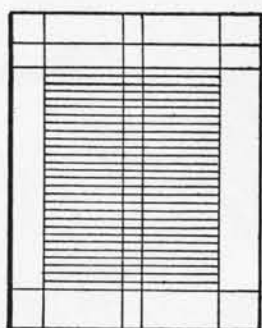
II,4c



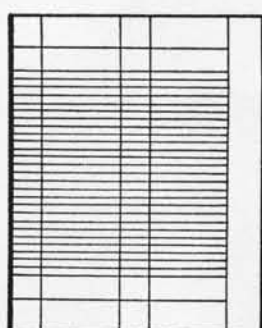
II,4d



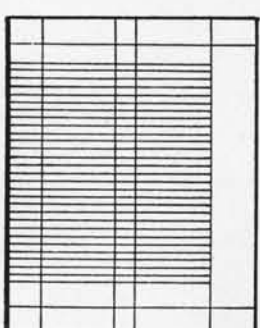
II,5a



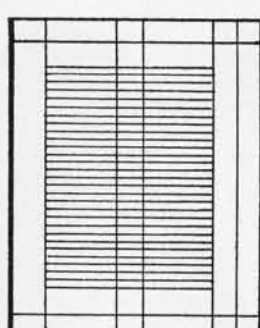
II,6a



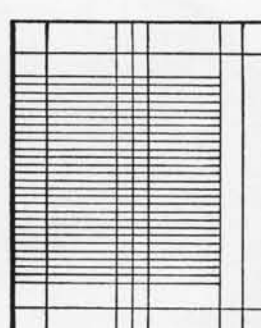
II,7a



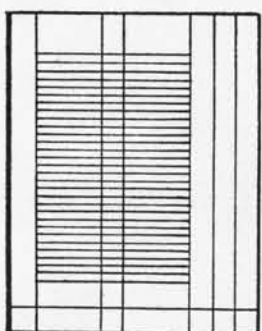
II,7b



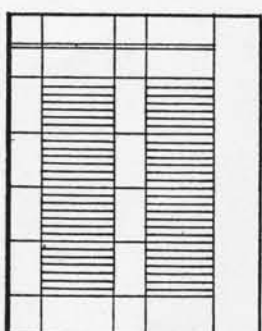
II,8a



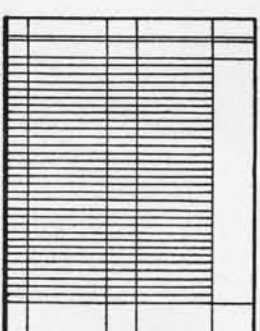
II,8b



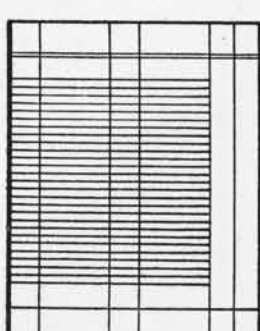
II,9a



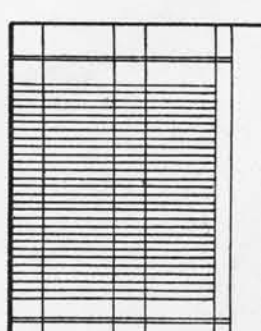
II,10a



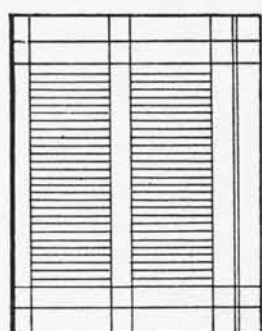
II,10b



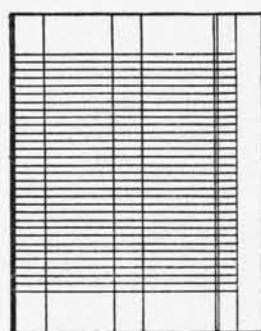
II,11a



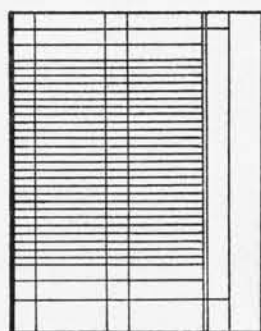
II,12a



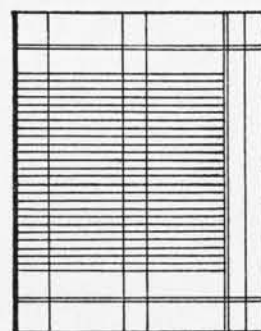
II,13a



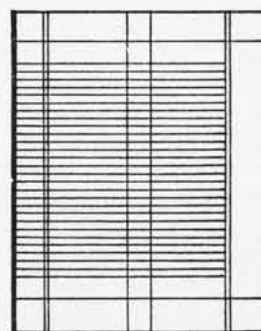
II,14a



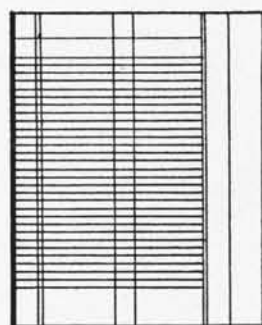
II,15a



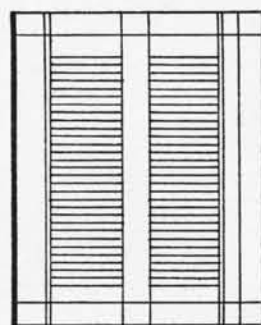
II,16a



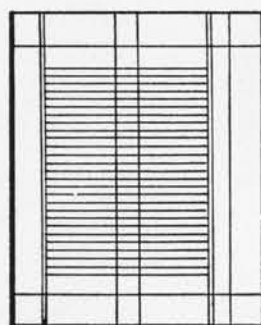
II,17a



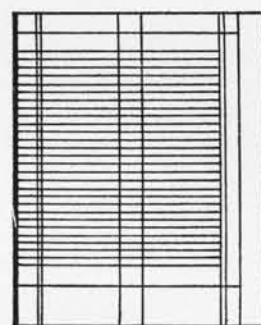
II,18a



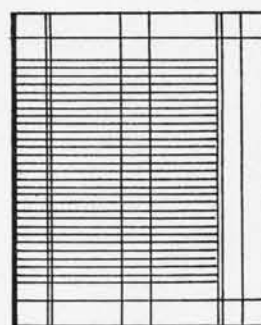
II,19a



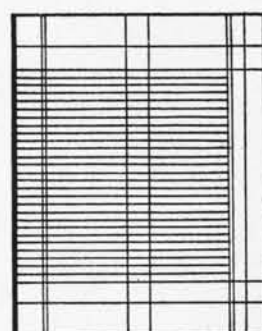
II,19b



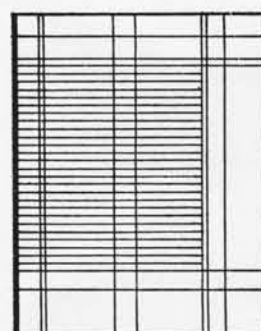
II,19c



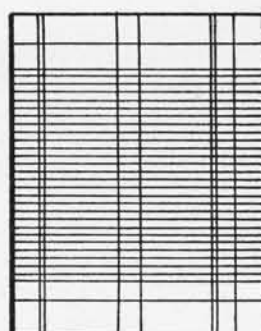
II,19d



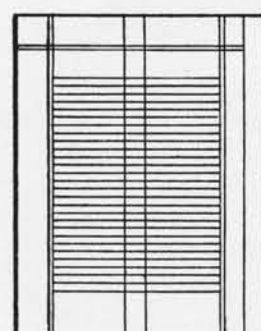
II,19e



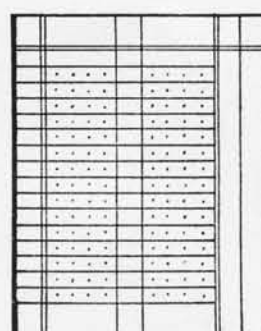
II,19f



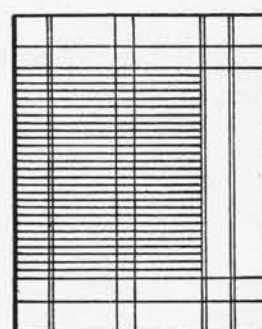
II,19g



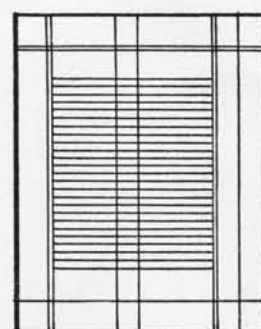
II,20a



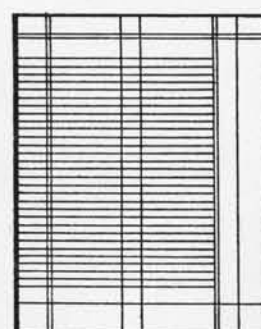
II,20b



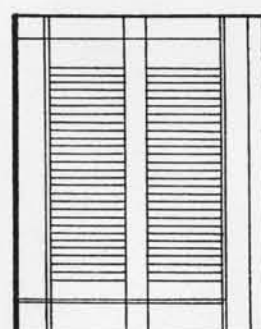
II,21a



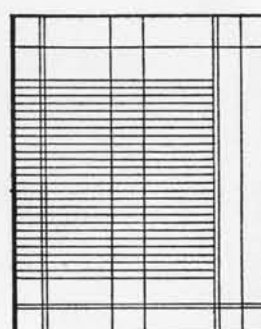
II,22a



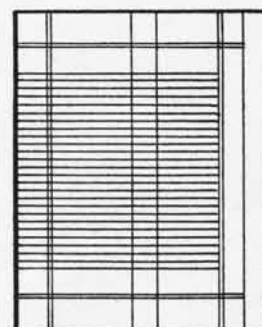
II,22b



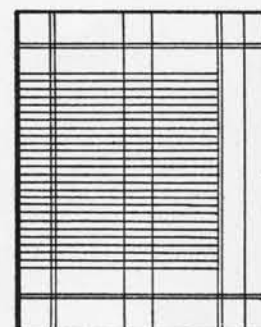
II,23a



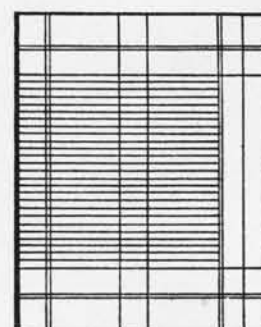
II,23b



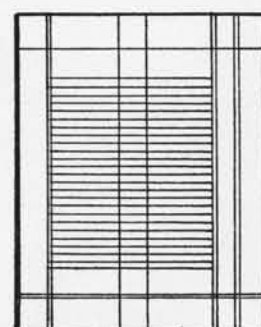
II,24a



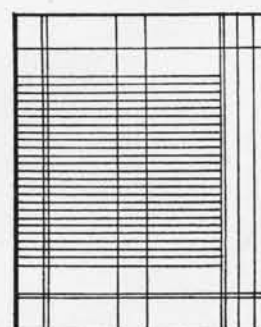
II,24b



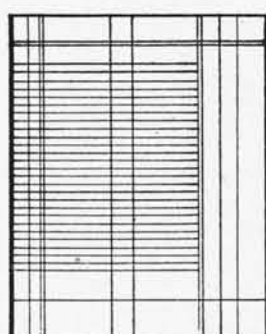
II,24c



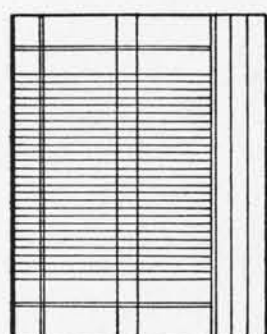
II,25a



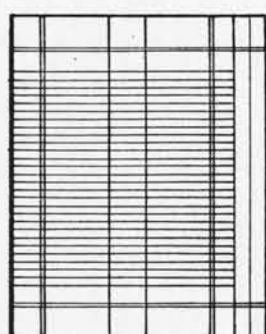
II,26a



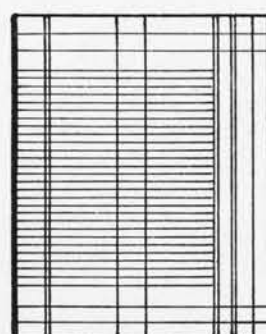
II,27a



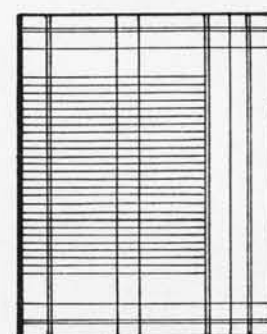
II,28a



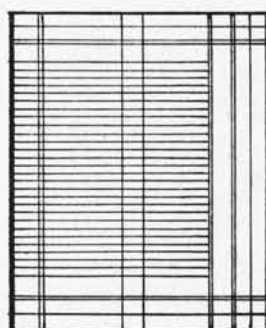
II,28b



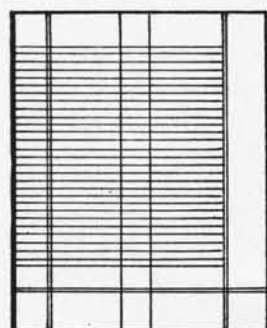
II,29a



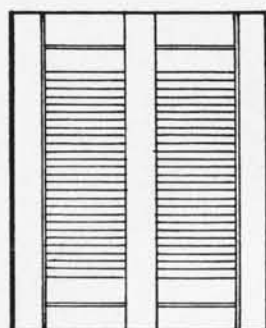
II,30a



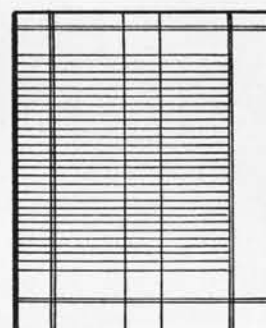
II,31a



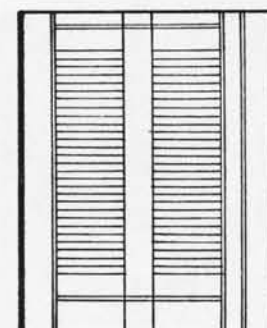
II,32a



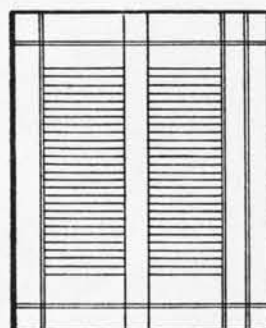
II,33a



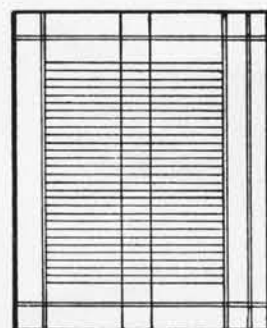
II,33b



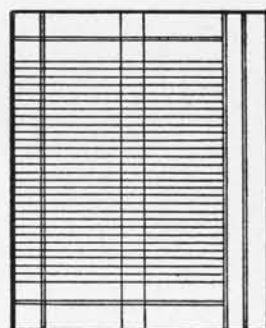
II,34a



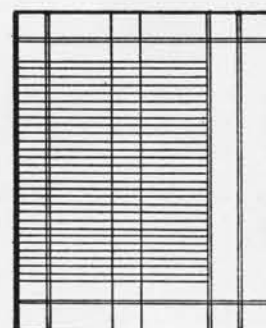
II,34b



II,34c



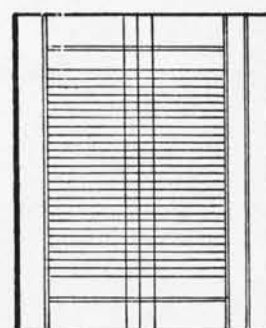
II,34d



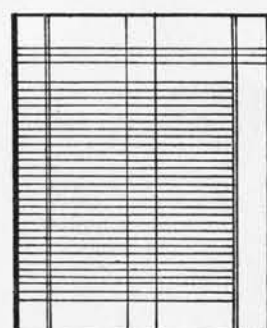
II,34e



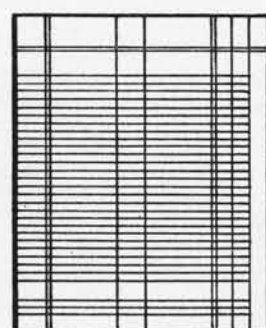
II,34f



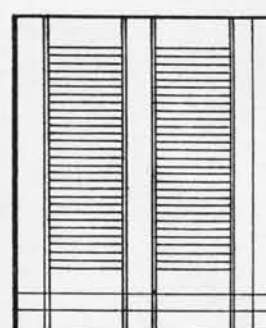
II,34g



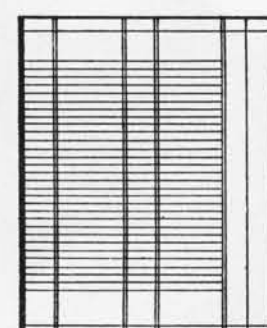
II,35a



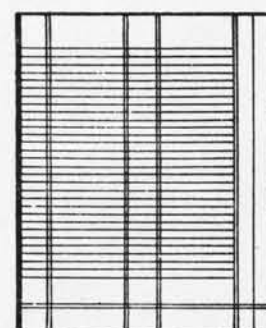
II,36a



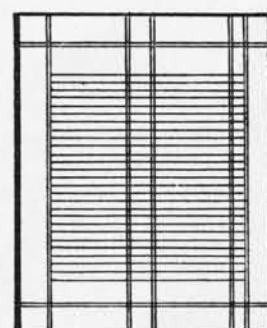
II,37a



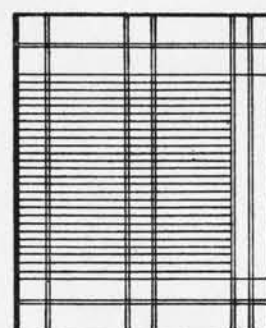
II,38a



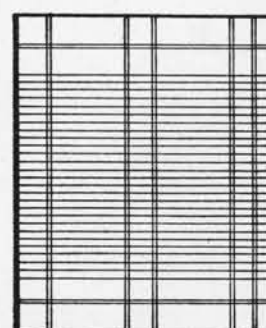
II,39a



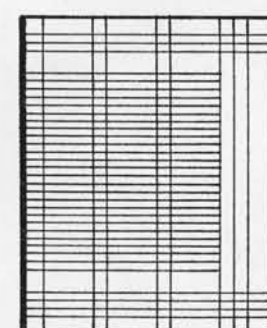
II,40a



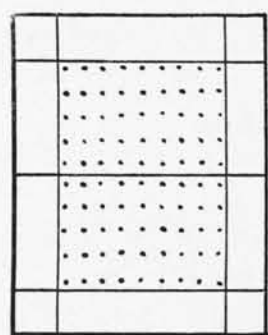
II,40b



II,40c



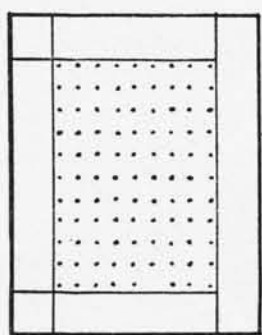
III,1a



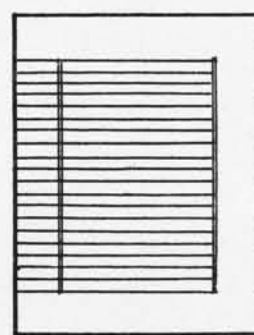
I,1f



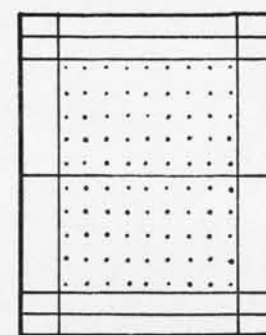
I,1g



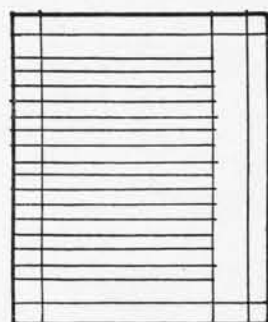
I,1h



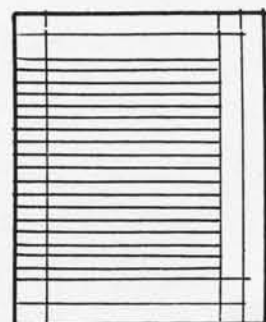
I,2f



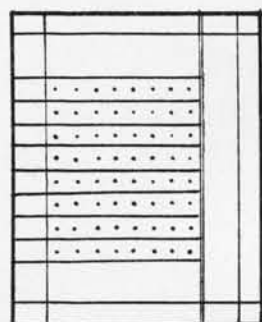
I,10c



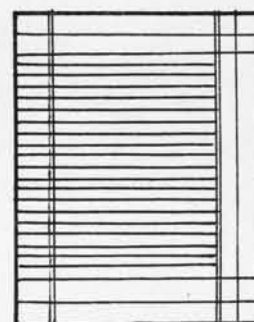
I,11b



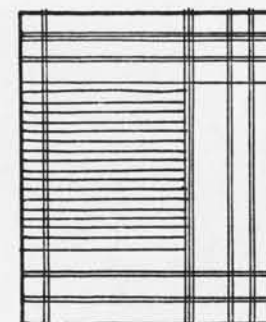
I,11c



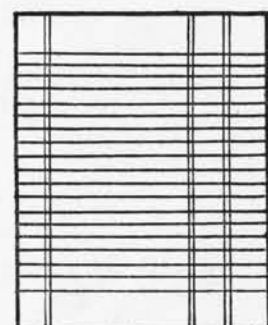
I,18b



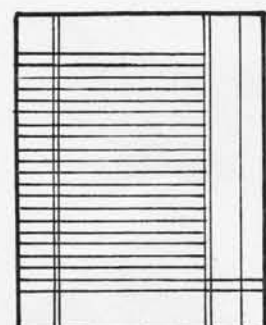
I,26g



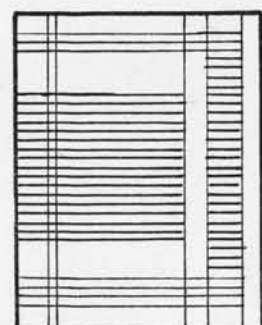
I,48a



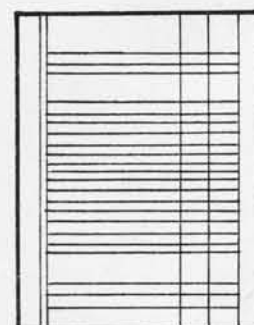
I,49



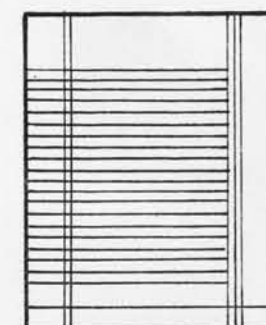
I,50a



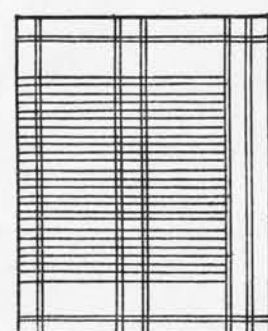
I,51a



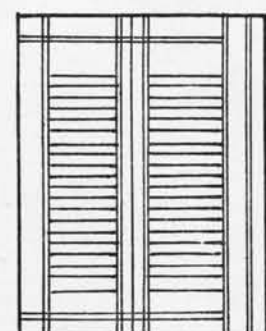
I,51b



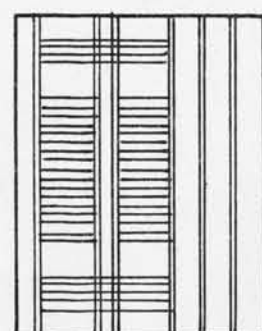
I,52a



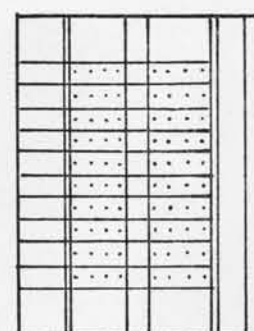
II,40d



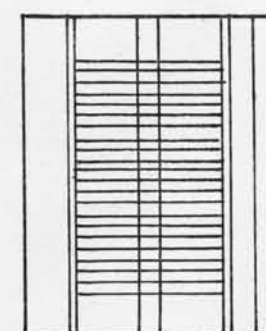
II,40e



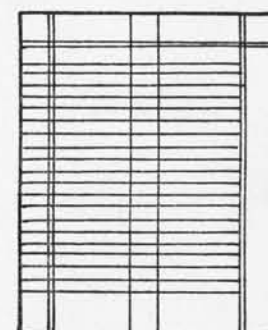
II,41a



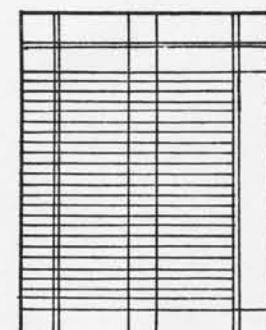
II,42a



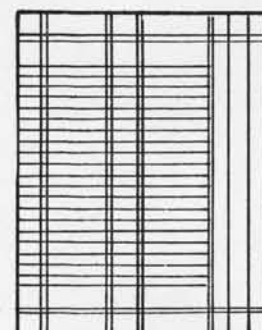
II,42b



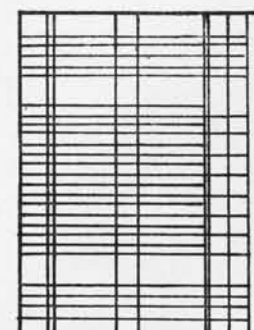
II,43a



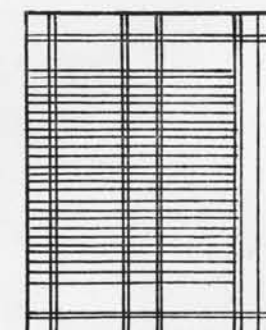
II,43b



II,44a



II,45a



II,46a