

A. C. GUSTAFSON.

PRINTER'S BORDER.

APPLICATION FILED SEPT. 9, 1908.

925,336.

Patented June 15, 1909.

Fig 1.

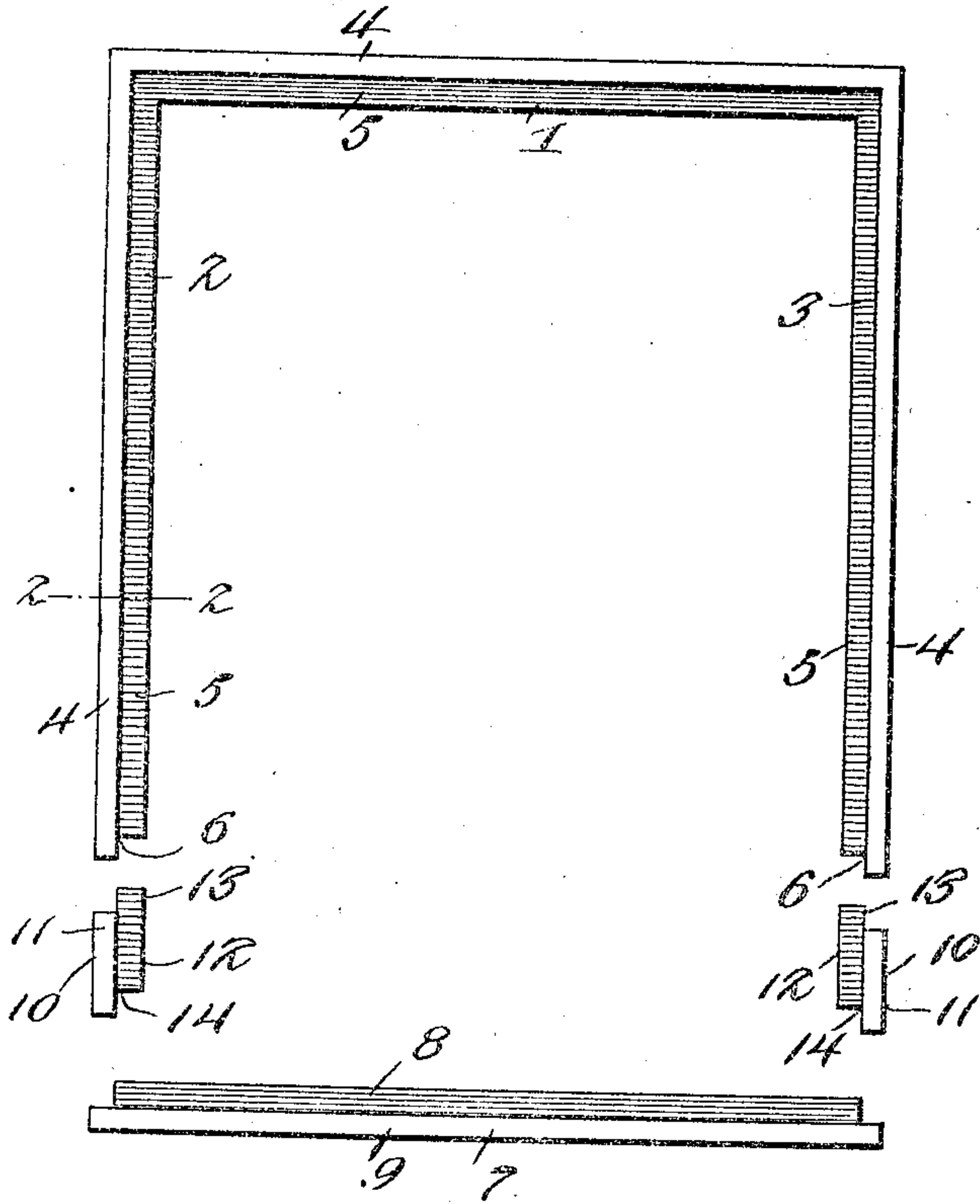
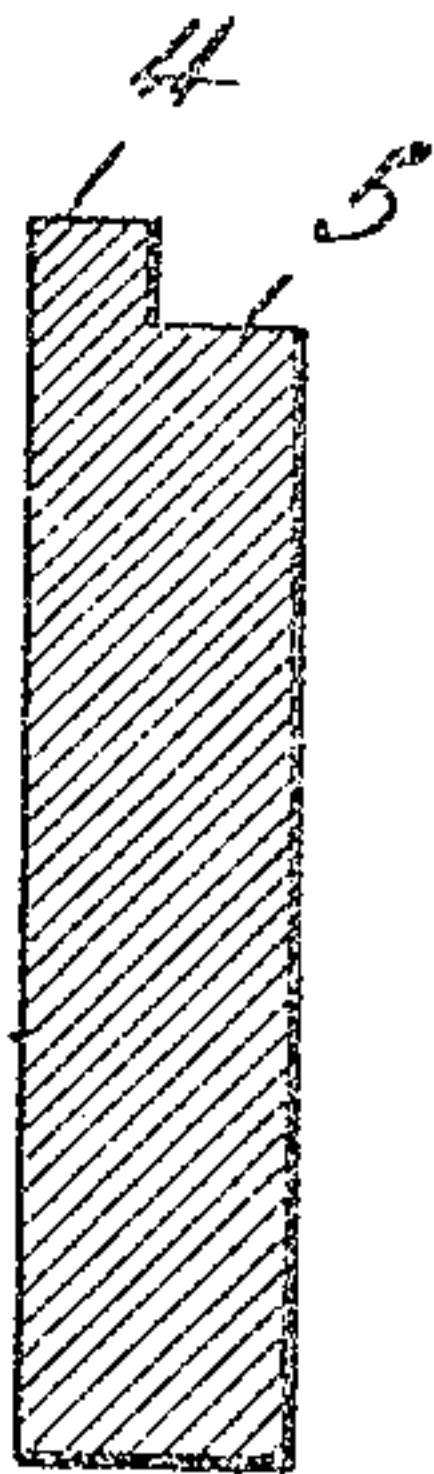


Fig 2.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## PRINTER'S BORDER.

No. 925,336.

Specification of Letters Patent.

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*To all whom it may concern:*

Be it known that I, ALVIN C. GUSTAFSON, a citizen of the United States, residing at Red Oak, in the county of Montgomery and State of Iowa, have invented new and useful Improvements in Printers' Borders, of which the following is a specification.

The invention relates to an improvement in printers' borders and is designed particularly to provide a border which will eliminate the difficult work of hand assembling of the short pieces of rule and slug usually necessary in making up a border.

In making up a border, as usually practiced the type setter will first select and assemble the short lengths of rule having the miter ends to form the corners of the border, and will then select suitable lengths of rule to be arranged between the end pieces to form the border of the proper length and width. It is, therefore, apparent that in every instance each line of the border is made up of several lengths of rule, and, of course, it is equally true of the slug or lead arranged within the rule by which the type is spaced from the rule. Owing to the comparatively large number of pieces required in making a border and the practical impossibility of so connecting these pieces as to maintain absolute alinement and uniformity, particularly at the corners, the setting of a border is a comparatively difficult operation.

The present invention is designed to obviate the difficulties of border setting, and to this end I form the border with side pieces and one end cast integral, the casting including both the rule and slug. With the casting thus formed I provide additional pieces to cooperate with the sides and an end section which will cooperate with either the additional inserts or the end of the sides of the casting, so that by the use of pieces of appropriate length the longitudinal dimension of the border may be exactly that desired, the connection between the insert pieces and the sides of the casting, or between the detachable end and the sides being so arranged as to insure an absolutely accurate fit of the parts.

The invention will be described in the following specification, reference being had particularly to the accompanying drawings, in which:—

Figure 1 is a view in plan of my improved

border. Fig. 2 is an enlarged vertical section on the line 2—2 of Fig. 1.

Referring particularly to the accompanying drawings, my improved border is integrally constructed to provide an end 1 and sides 2 and 3, the sides being extended from the end in parallel relation, as shown. The frame thus provided is cast integral of a transverse shape shown more particularly in Fig. 2, in which the relatively inner portion of the material throughout the sides and end of the frame is of less height than the outer portion, said outer portion, as 4, thus corresponding to the ordinary rule of the border and being, of course, type high, while the inner portion, as 5, corresponds to the ordinary slug of the border and is, of course, lead high. At the free ends of the sides 2 and 3 the vertical or end edge of the portion 5 terminates inwardly beyond the similar edge of the portion 5, or in other words the slug portion of the border on the sides of the integral frame provided is of less length than the rule portion, whereby to provide shoulders 6, as shown. With the frame thus formed I provide an end piece 7 adapted to fit the free ends of the sides 2 and 3, said end piece being of exactly the same sectional contour as that of the frame and therefore including an inner lead high section 8 and an outer type high section or rule 9. In the end thus provided the rule portion is of a length corresponding exactly to the maximum distance between the relatively outer surfaces of the sides 2 and 3, while the slug portion 8 is of a length corresponding exactly to the distance between the relatively inner surfaces of the rule portions of the sides 2 and 3. As thus constructed in assembling the frame and end to provide the complete border the ends of the slug portion 8 of the separate ends 7 of the border will fit snugly in the shoulders 6 with the inner surfaces of the rule portion 9 of the end 7 bearing squarely against the end edges of the rule portions 4 of the sides 2 and 3. The border is thus complete and by the fitting of the end in the frame as described there is no possibility of irregular assembling and hence when printed from the rule will show practically an unbroken border line.

To provide for increasing the longitudinal dimension or length of the border if desired I construct inserts 10, which are pref-



erably provided in different lengths and in suitable number to arrange the frame of practically any length desired. These inserts are also of a sectional formation corresponding to that of the frame and detachable end, thereby including an outer rule portion 11 and an inner slug portion 12. In each of the inserts, however, the slug portion, at one end of the insert, as the inner end, projects beyond the proximate edge of the rule portion, as at 13, whereby to provide a projection to fit within the shoulder 6 of the main frame. At the opposite end of the insert the rule portion 11 projects outwardly beyond the slug portion to provide a shoulder 14 to receive the detachable end 7 of the border. The inserts are, therefore, constructed at one end to fit in the shoulder 6 and at the opposite end to duplicate said shoulder 6, so that with the insert in place there is still provided at the end of each side of the border a shoulder to receive the detachable end.

It is, of course, to be understood that all parts of the present border are to be cast and that as many end pieces as may be necessary for the particular class of work to be handled will be included as an essential part of the border in order that said border may be given any length desired. The width of the border will depend upon the class of work for which it is used; and in this connection it is to be understood that I contemplate making the border any desired width, for example single, double, or triple newspaper column width, or any of the accepted or unusual widths which may be found desirable for the particular work in hand. The salient feature of the present invention is the provision of a border which in its fixed dimension is cast integral, with which integral section there is combined inserts and a detachable end, with the inserts

and end so constructed as to interlock with the casting to insure an absolutely accurate fit of the parts without possibility of slipping in locking up or during printing. 45

It will, of course, be understood that the printing edge of the rule may be ornamented to any desired degree in order to provide an ornamental border and that the width of the slug is not material and is to be, of course, of that best adapted for the particular work for which the border is designed. 50

Having thus described the invention what is claimed as new, is:— 55

1. A printer's border having the sides and one end cast integral, a detachable end, and inserts to interlock with said detachable end and sides. 60

2. A printer's border having the sides and one end cast integral to include the rule and slug, the slug on the sides being of less length than the rule, and a detachable end including the rule and slug and having the slug of less length than the rule to interlock with the ends of the sides. 65

3. A printer's border having the sides and one end cast integral to include the rule and slug, the slug on the sides being of less length than the rule, inserts integrally including the rule and slug, the slug at one end of the insert extending beyond the rule to interlock with the ends, the slug at the opposite end of the insert terminating inwardly beyond the rule, and a detachable end integrally including the slug and rule and having the slug of less length than the rule to interlock with the ends of the insert. 70 75

In testimony whereof I affix my signature in presence of two witnesses. 80

ALVIN C. GUSTAFSON.

Witnesses:

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EMMA BARTON.