

No. 631,060.

Patented Aug. 15, 1899.

I. W. ALLSPAUGH.
PRINTER'S RULE, CIRCLE, &c.

(Application filed Feb. 6, 1899.)

No Model.)

Fig. 3.

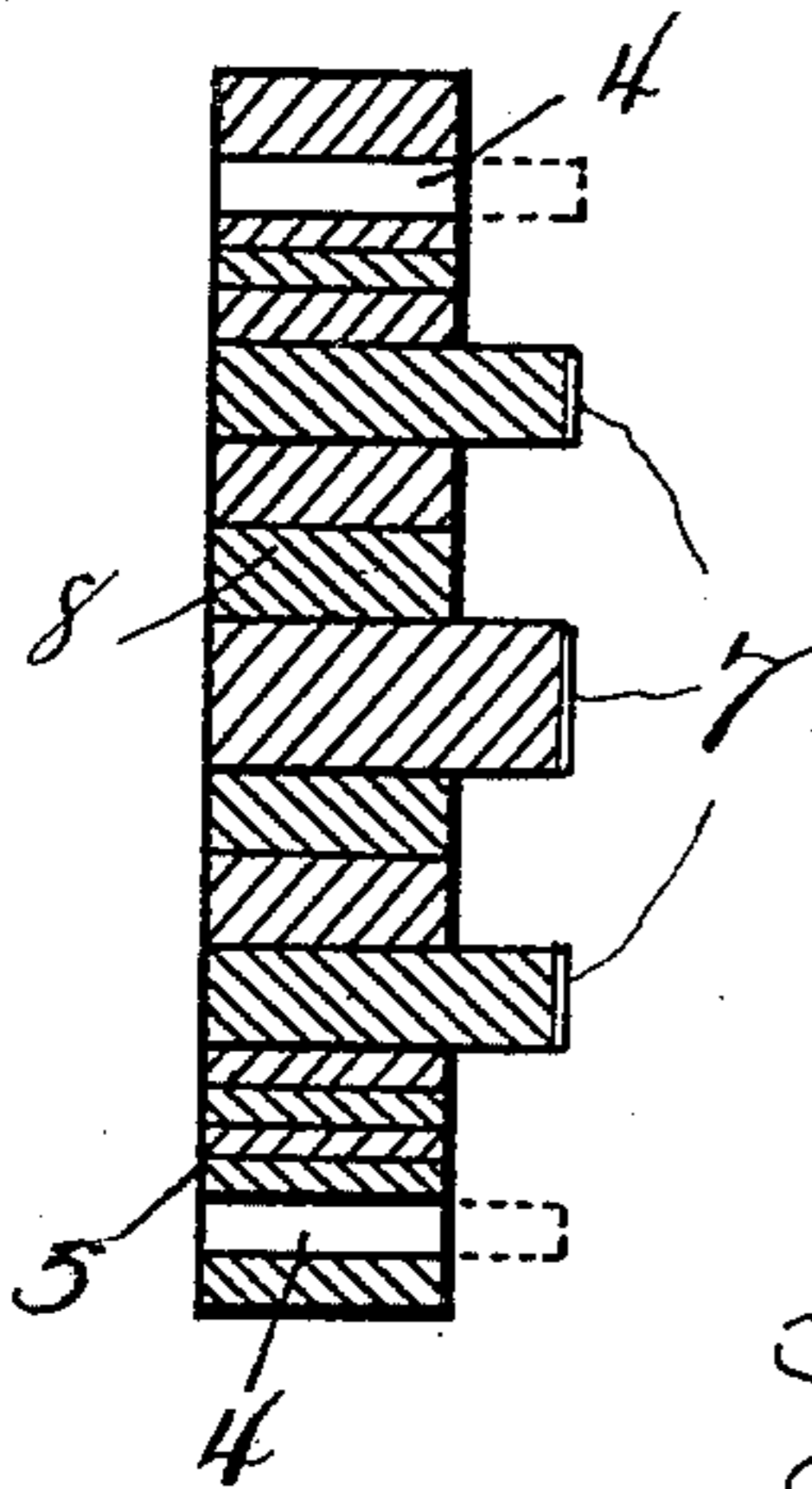


Fig. 2.

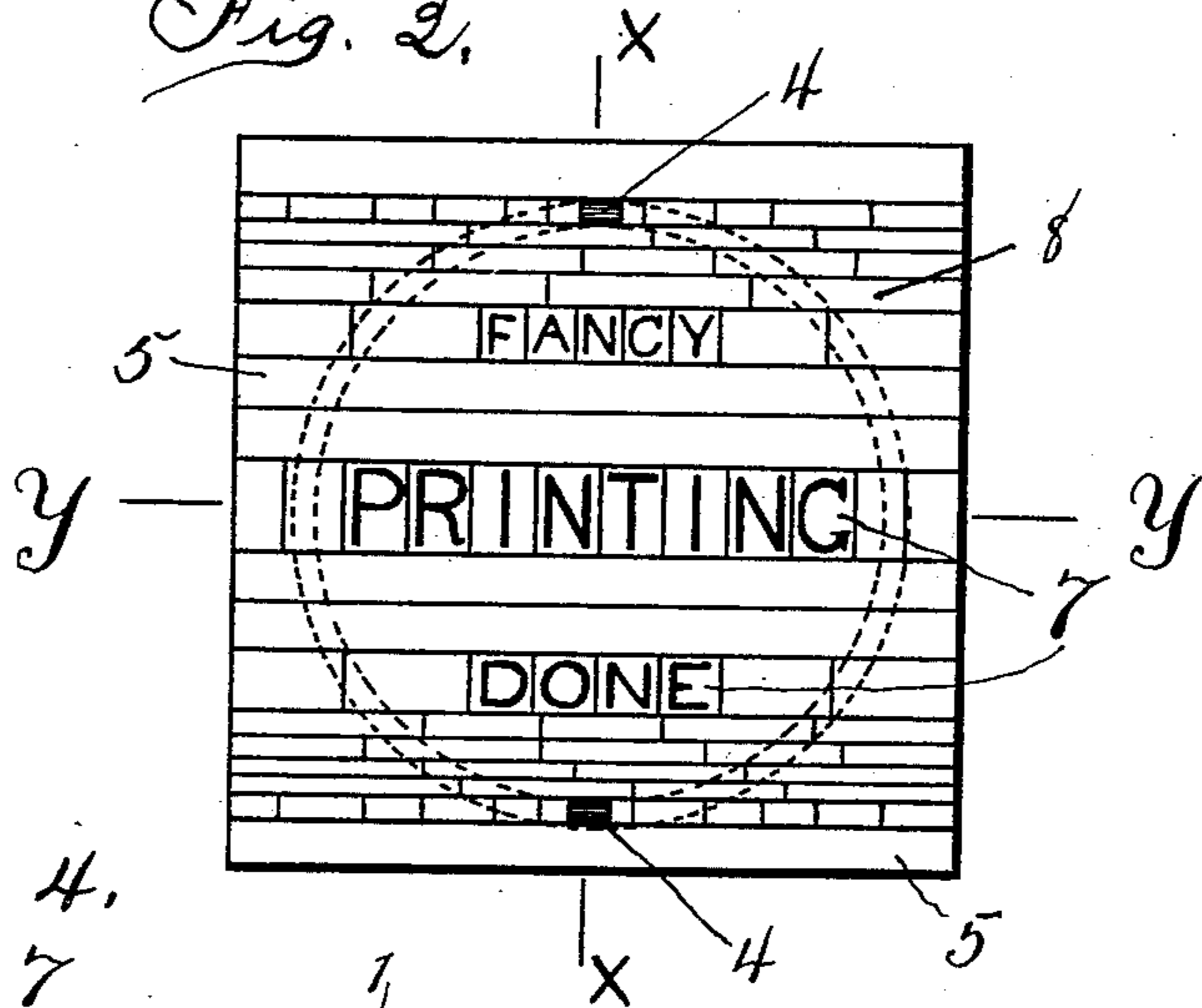


Fig. 4.

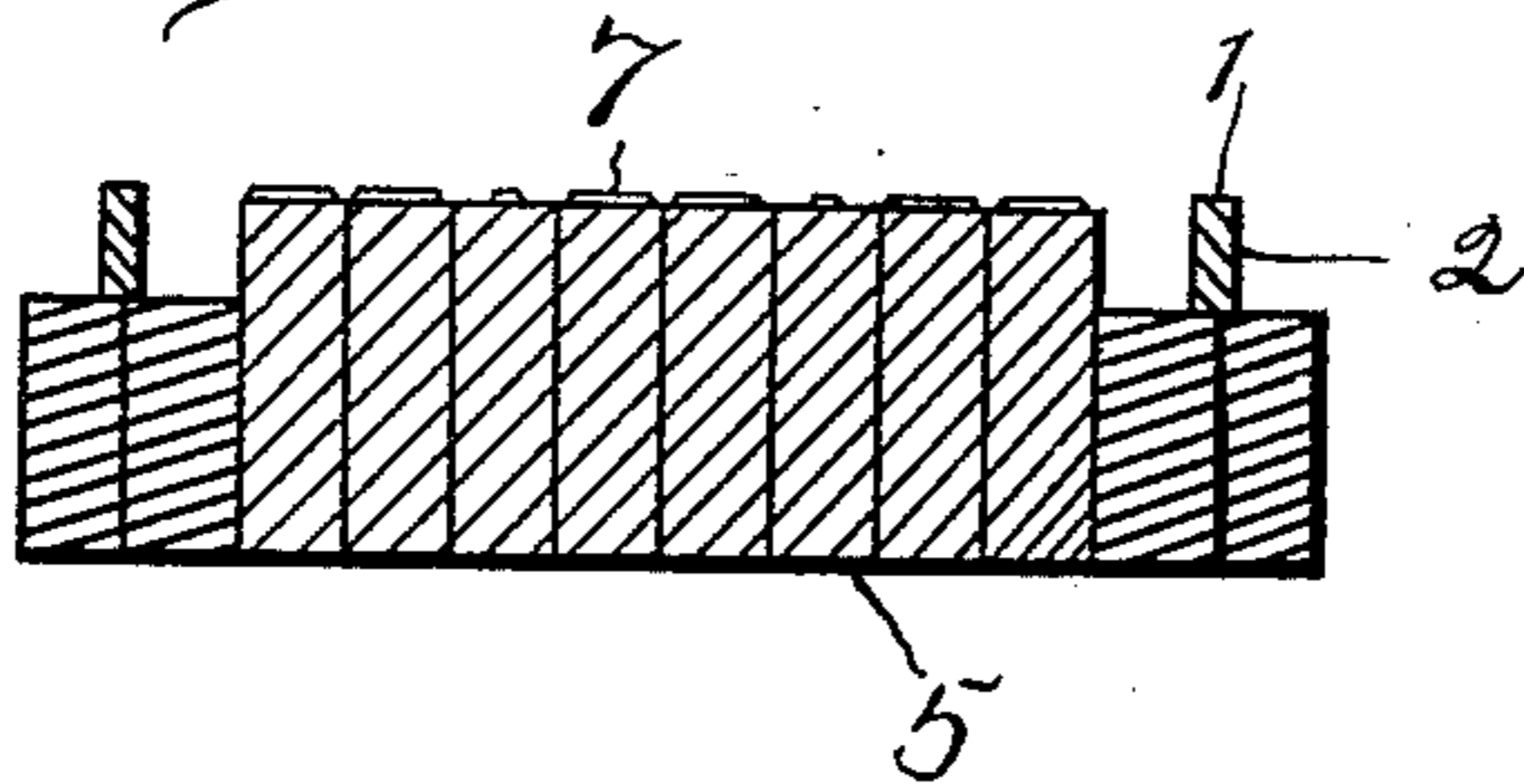


Fig. 5.

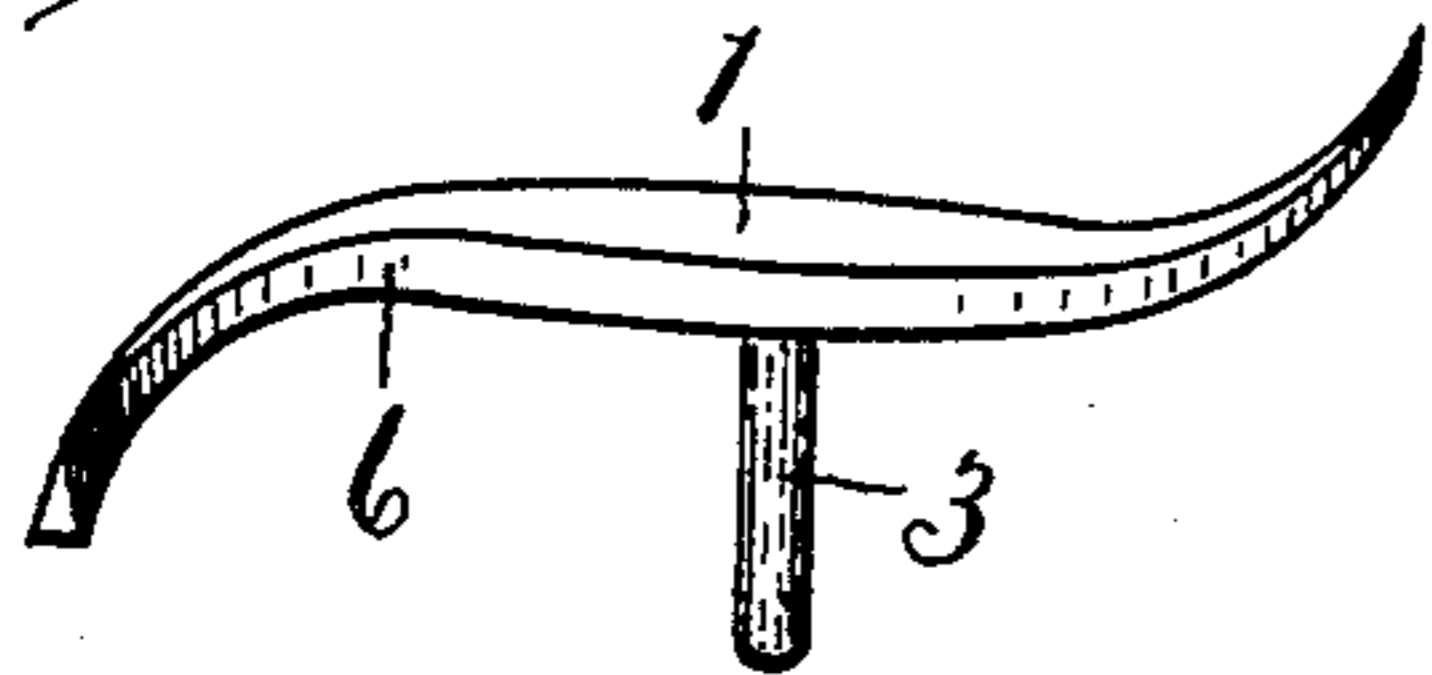


Fig. 6.

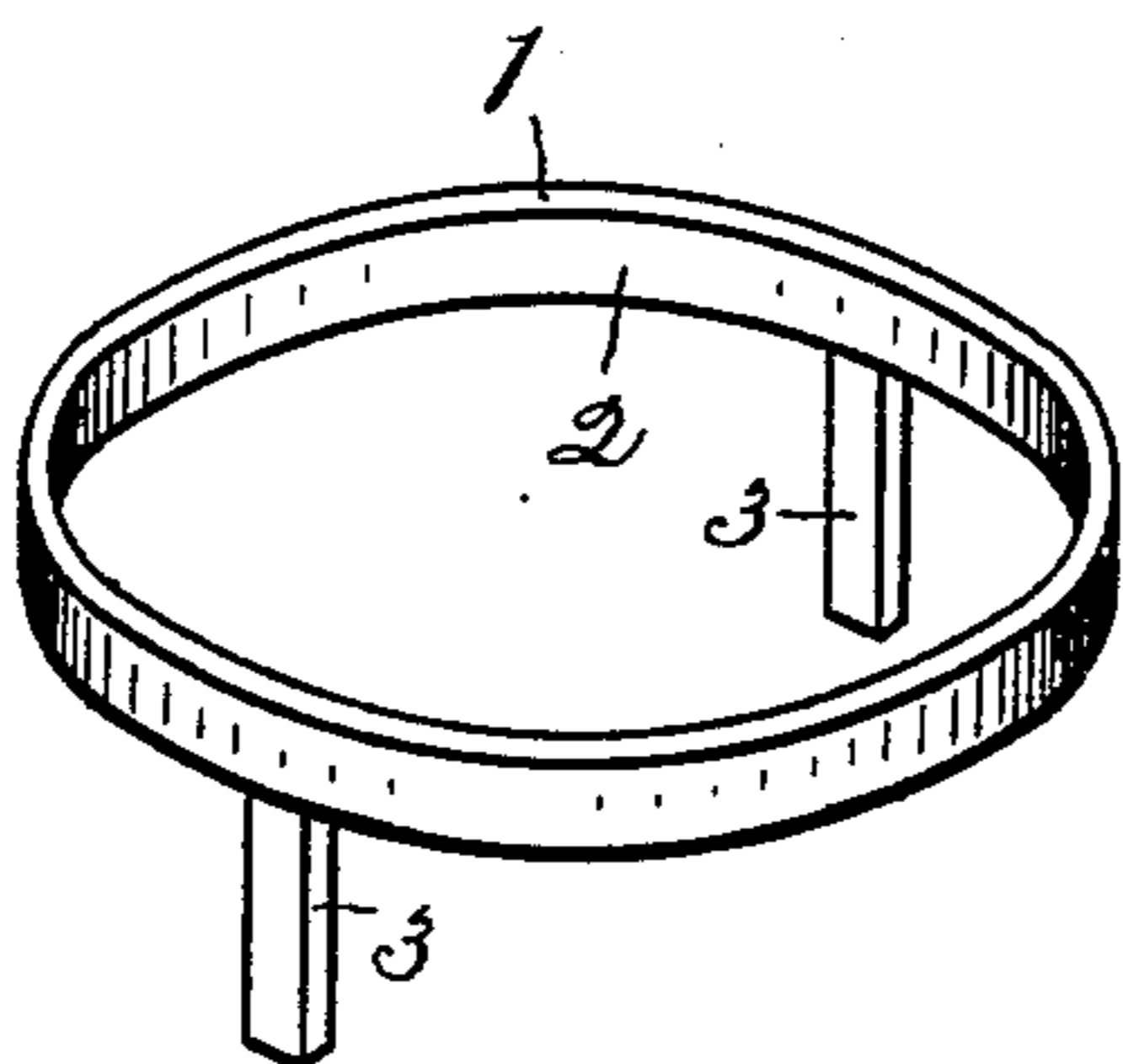
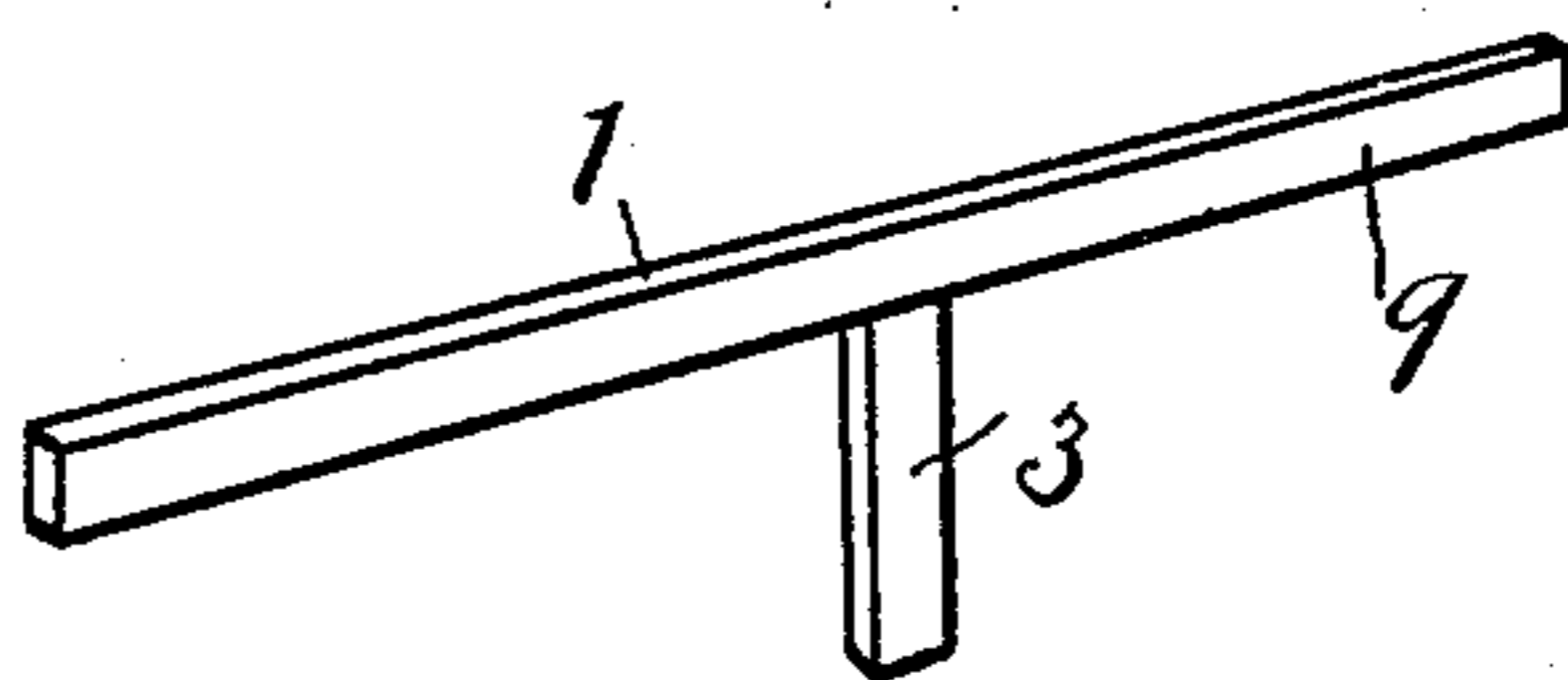


Fig. 1.

Witnesses
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UNITED STATES PATENT OFFICE.

IVAN W. ALLSPAUGH, OF STOCKTON, CALIFORNIA.

PRINTER'S RULE, CIRCLE, &c.

SPECIFICATION forming part of Letters Patent No. 631,060, dated August 15, 1899.

Application filed February 6, 1899. Serial No. 704,609. (No model.)

To all whom it may concern:

Be it known that I, IVAN W. ALLSPAUGH, a citizen of the United States, residing at Stockton, in the county of San Joaquin and State of California, have invented a new and useful Improvement in Printers' Rules, Circles, and Flourishes; and I declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to certain improvements in printers' rules, circles, and flourishes, such as are used by printers in forms adapted for various kinds of printing.

My object is to furnish a rule, circle, or flourish for printing which may be readily adapted to fit on and be easily attached to the printing-forms ordinarily used without requiring the trouble of making and fitting the type, quads, leads, and slugs to the body of such rules, circles, and flourishes, thereby greatly facilitating the work of setting up forms of this character. This I accomplish by the use of the peculiar construction, novel combination, and adaptation of parts herein-after described, and particularly pointed out in the claims hereunto annexed, reference being had to the accompanying drawings for a better comprehension thereof, in which—

Figure 1 is a perspective view of my improved circle, showing the same removed from position on a form. Fig. 2 is a face view of a form set up in the usual manner with two quads removed. Fig. 3 is a sectional view of the same through line X X, Fig. 2. Fig. 4 is a sectional view of the same, through line Y Y, Fig. 2, showing the circle in position on the top of the quads, spaces, leads, and slugs. Fig. 5 is a perspective view of a flourish or irregular curve having my improvement attached thereto. Fig. 6 is a perspective view of a rule with my improved attachment thereon.

Similar figures of reference indicate corresponding parts in the several views.

My improvement consists, essentially, of a circle, rule, or flourish, such as 2, 9, and 6,

respectively, having suitable configurations on the faces 1 thereof and having their height equal to the difference between the height of the quadrats, (commonly called "quads,") spaces, leads, or slugs and the face of the type, so as to render the faces 1 of the circles, rules, and flourishes flush with the face of the type 7 when said circles, rules and flourishes are placed in position on the quads, spaces, leads, or slugs, as hereinafter set forth. One or more standing posts or depending lugs 3, which may be either round, square, oblong, octagonal, or other similar form, are rigidly attached to the under side of the said circles, rules, or flourishes and adapted to depend therefrom for the purpose of maintaining said circles, rules, and flourishes rigidly in position when the same have been placed on the form and said standing posts or depending lugs have been inserted in holes in the form provided by the removal of quads, spaces, leads, or slugs.

The form 5, as shown in Fig. 2, is set up without reference to the circle, with the exception that the lines of type are made to conform to or graduate with the curve of the circle. Then two quads are removed, leaving the holes 4 a distance apart corresponding to the diameter of the circle desired. The standing posts or depending lugs 3 of the circle 2 are then inserted in the said holes 4, whereupon the body 2 of the circle is adapted to rest on the top of the quads, spaces, leads, or slugs 8. It will be seen that the body of the form, Fig. 2, is square. Hence it is more readily, easily, and firmly locked in the chase than a form set up within the ordinary circle.

When it is desired to introduce a rule, flourish, or other ornament running diagonally or otherwise in a suitable form, a quad is removed and the post 3 inserted therein, whereupon the said form may be put in the chase and locked up.

In my drawings I have shown how my improvement is applied to circles, rules, and flourishes; but the same is made and designed and may be used for printers' flourishes and similar ornaments used in printing.

The advantages of my improvement are the facility with which my circle, rule, flourish, or other ornament may be adapted to

any form, thus obviating the necessity of justifying the quads, spaces, leads, and slugs to the body of the rule, circle, flourish, or other ornament, greatly facilitating the setting up of forms of this character. The angle of the rule, flourish, or other ornament may be changed without resetting the form. The position of the standing post or depending lug may also be changed without resetting the form.

I am well aware that circles, rules, flourishes, or other ornaments have been used in printing within which and to which the type, quads, spaces, leads, and slugs must be accurately set up and justified; but these are inconvenient and defective.

What I claim as new, and desire to secure by Letters Patent, is—

1. A printer's rule, circle or flourish provided with one or more standing posts, or depending lugs, rigidly attached thereto and projecting vertically downward and adapted to penetrate openings in printers' forms, made by the removal of quads, spaces, leads or slugs, all substantially as set forth.

2. A printer's circle, rule or flourish, the height of which is the difference between the height of the quadrats, spaces, leads or slugs and the face of the type, provided with one or more standing posts, or depending lugs, rigidly attached thereto and projecting vertically downward and adapted to penetrate openings in the form, made by the removal

of quads, spaces, leads or slugs, all substantially as set forth.

3. In a printer's circle, rule or flourish, the combination with a form composed of type, quads, spaces, slugs and leads, having one or more openings 4 left therein, of the circle 2, flourish 6, rule 9, the height of each of which being the difference between the height of the quads, spaces, slugs and leads and the face of the type, adapted to rest on said quads, spaces, slugs and leads, the standing posts, or depending lugs, 3 attached at a suitable location on the under side of said circle, rule or flourish, and adapted to penetrate the holes 4 in the said form, all arranged and operating substantially as shown and described and for the purposes set forth.

4. In a printer's rule, circle, flourish or other like ornament, the post 3 rigidly attached to the under side of said rule, circle, flourish or other ornament and adapted to depend therefrom into an opening in a suitable form in combination with a suitable rule, circle, flourish or other like ornament, all arranged and operating substantially as shown and described, and for the purposes set forth herein.

In witness thereof I affix my signature in presence of two witnesses.

IVAN W. ALLSPAUGH.

Witnesses:

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W. J. HAMMAN.