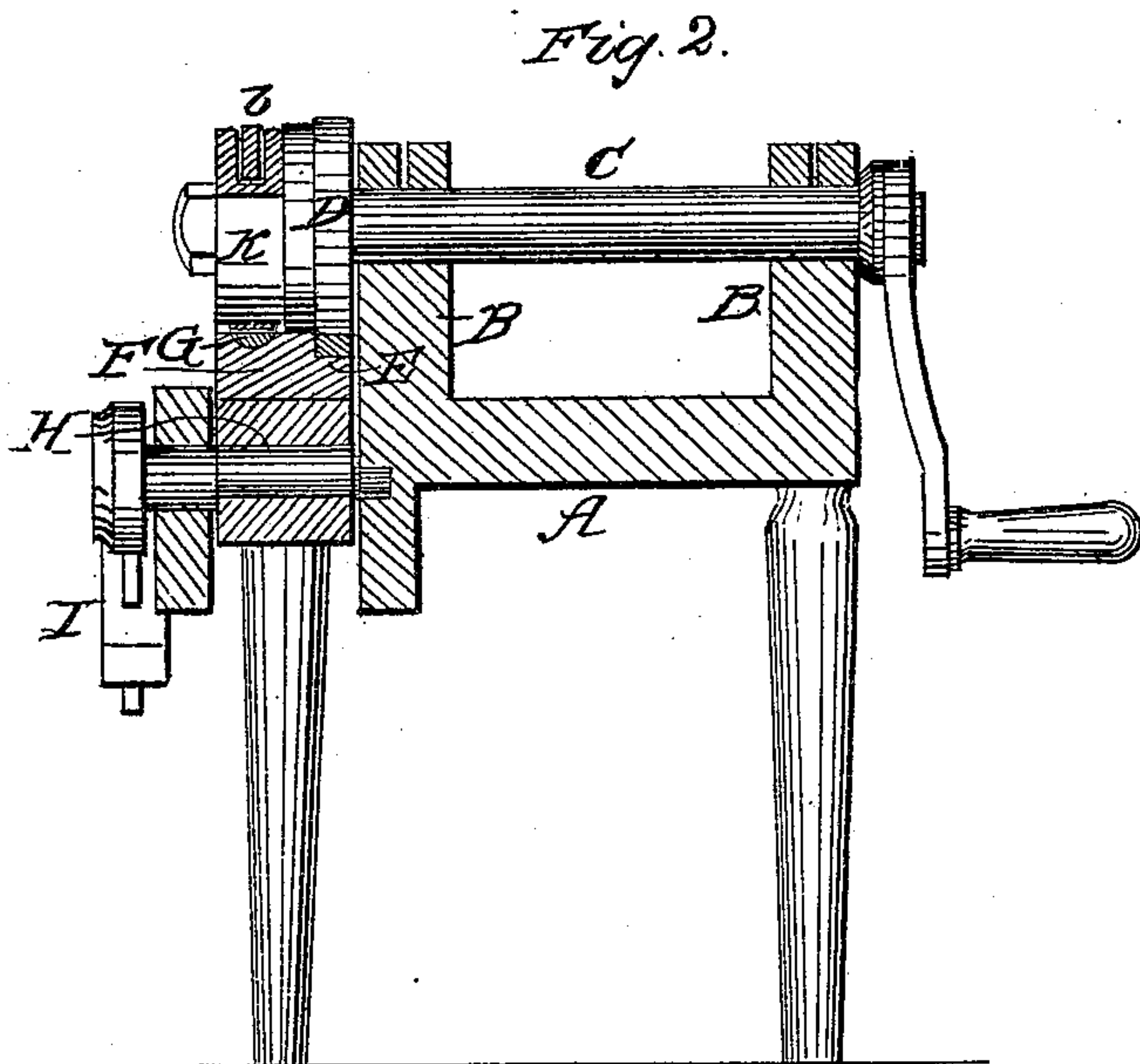
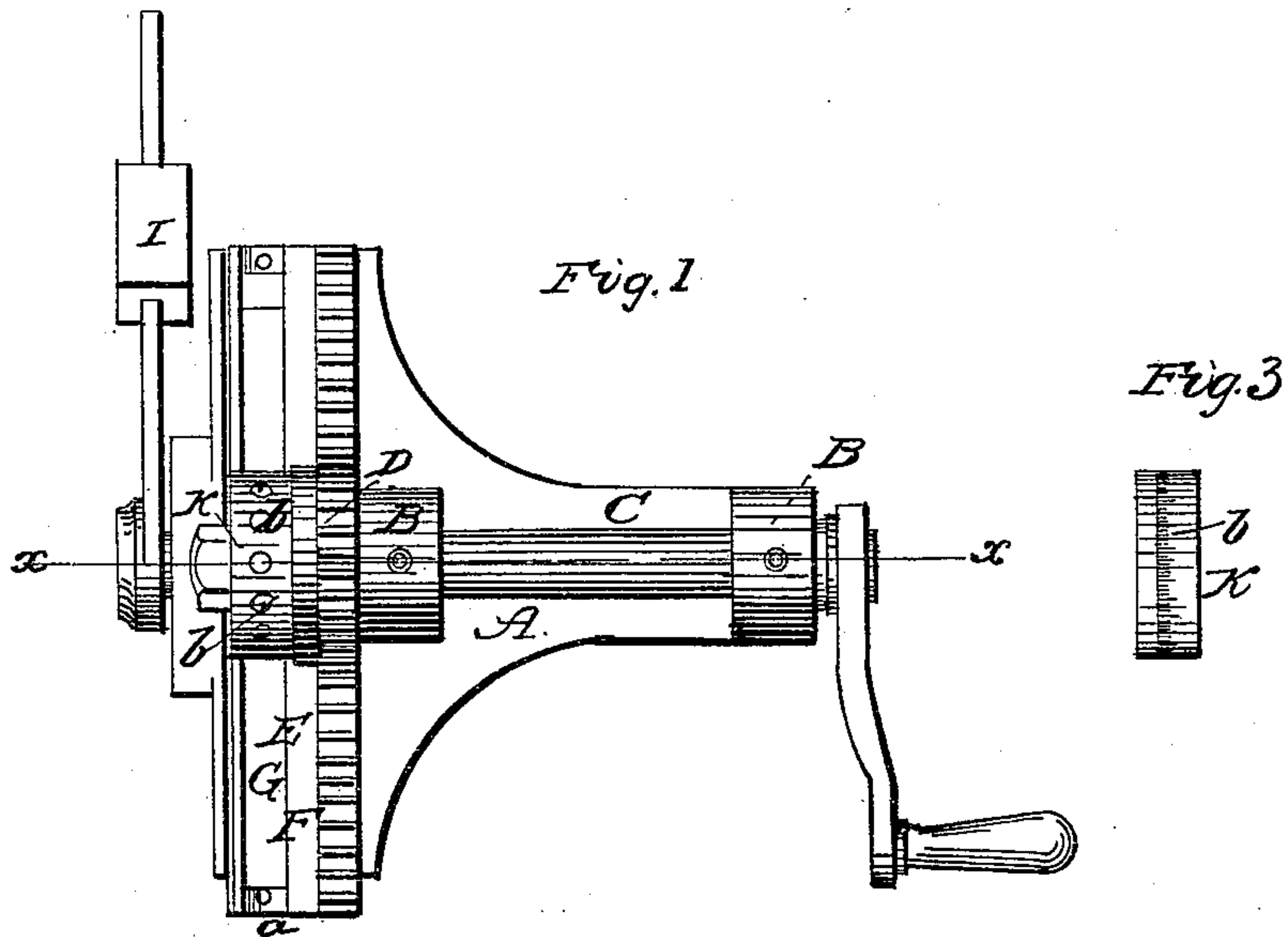


H. K. JONES.

Machine for Stamping Carpenters' Squares.

No. 41,742.

Patented Feb. 23, 1864.



Witnesses
J. W. Coombs
G. W. Reed

Inventor
H. K. Jones
per M. M. H. G.
Attor

UNITED STATES PATENT OFFICE.

HORACE K. JONES, OF KENSINGTON, CONNECTICUT, ASSIGNOR TO HART MANUFACTURING COMPANY.

IMPROVEMENT IN MACHINES FOR STAMPING CARPENTERS' SQUARES.

Specification forming part of Letters Patent No. 41,742, dated February 23, 1864.

To all whom it may concern:

Be it known that I, H. K. JONES, of Kensington, in the county of Hartford and State of Connecticut, have invented a new and Improved Machine for Stamping Carpenters' Squares, &c.; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a plan or top view of the invention. Fig. 2 is a longitudinal vertical section of the same, the line *x x*, Fig. 1, indicating the plane of section. Fig. 3 is a detached elevation of one of the stamping-rollers.

Similar letters in the several views indicate corresponding parts.

This invention consists in the employment of one or more rollers, each provided with a series of dies representing the figures and the graduation of the squares, and other articles to be stamped, in combination with a small reciprocating bed in such a manner that by the action of the dies the article to be stamped is pressed down flat upon the bed, and is prevented from springing or bending.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A represents a frame, made of cast-iron or any other suitable material, and provided with two standards, B, which form the bearings for the driving-shaft C. This shaft is rotated by means of steam or any other competent power, and it carries a cog-wheel, D, which gears into a toothed rack, E, on the side of the reciprocating carriage F. This carriage is made of cast-iron or other suitable material, and it moves between suitable ways in the frame A. The face or surface of this carriage is provided with a semicircular cavity, *a*, to receive the bed G. This bed is made in the form of a semi-cylinder, its convex side being placed into the cavity *a*, and it projects slightly above the surface of the carriage, so that a square or other article placed on it can readily adjust itself in a lateral or transverse direction.

Instead of placing the bed G in a cavity it might be hung on centers, so as to enable it to assume a rocking motion, and to adjust itself according to the shape of the article to be stamped.

This arrangement is of peculiar value for carpenters' squares, which are usually made thinner on one edge than on the other.

The carriage F is acted upon by the cam H, which is subjected to the action of an adjustable weight, I, or instead of this weight a spring may be applied. By this weight the cam is pressed up against the under surface of the carriage, and the bed is forced up against the stamping-roller K, thus keeping the article to be stamped in close contact with the surface of the roller-frame from one end to the other. Any inequalities in the surface of the square or other articles to be stamped are thus compensated, and the action of the stamping-roller is rendered uniform throughout.

The stamping-roller K is secured to the end of the shaft C, and it is provided with dies *b*, representing the figures or the graduation to be produced on the squares or other articles to be stamped. The figures and the graduation may, however, be inserted in or produced on the surface of one and the same roller, and the dies may either be made movable or solid with the rollers.

By having the dies on the cylindrical surface of the rollers each die presses the square or other article to be stamped flat down upon the bed, and said article after having been stamped remains perfectly flat, and requires no straightening.

When the dies are placed on the bed, the squares or other articles to be stamped are bent, and they have to be straightened out again after the stamping by a tedious operation.

By my machine the operation of stamping and graduating carpenters' squares or other similar articles can be accomplished with very little labor in a short time, and perfectly reliable.

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

1. The combination of the loose and removable roller K, self-adjusting bed G, and carriage F, constructed, arranged, and operating substantially as and for the purposes set forth.

2. The combination of a roller which carries the dies with a self-adjusting bed and a weighted lever, substantially as and for the purpose herein shown and described.

HORACE K. JONES.

Witnesses:

JNO. W. CLARK,
JOHN UPSON.