

No. 690,853.

Patented Jan. 7, 1902.

P. GRABLER.
PAPER MARKER.

(Application filed Oct. 22, 1901.)

(No Model.)

Frö. 1.

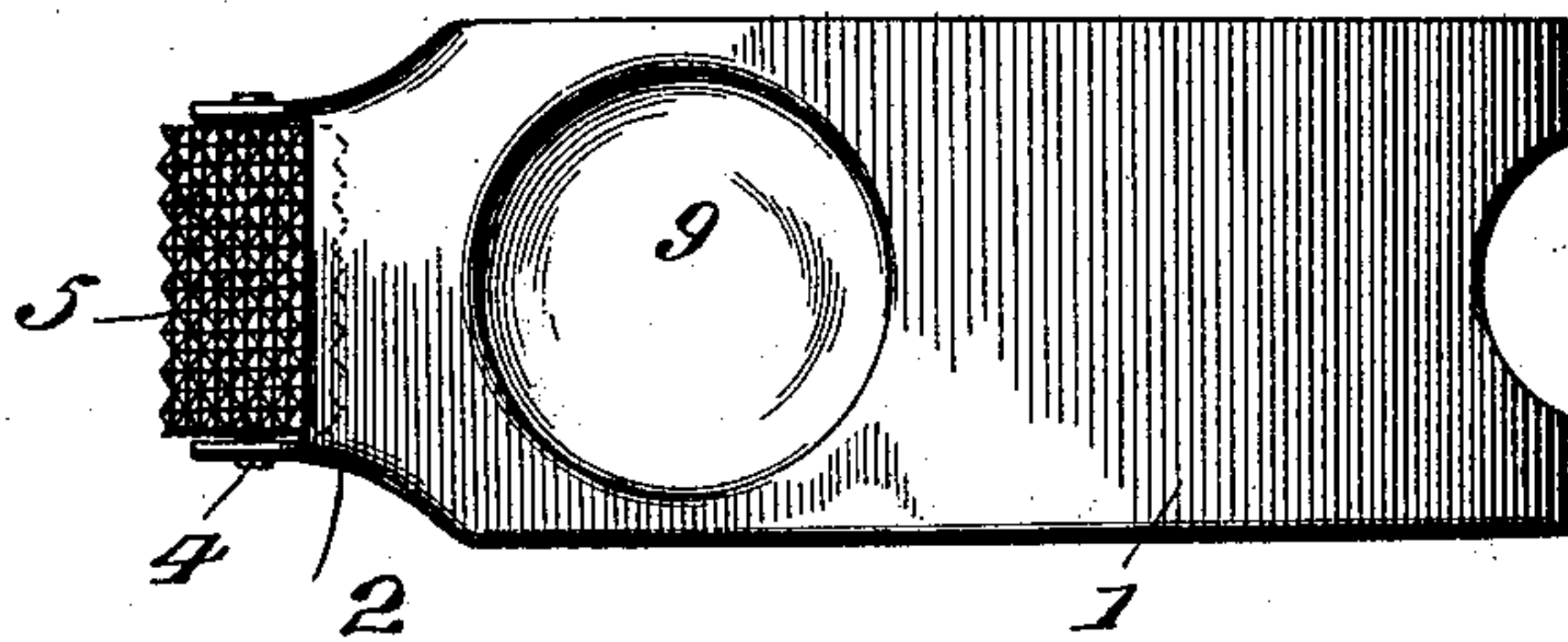


Fig. 2.

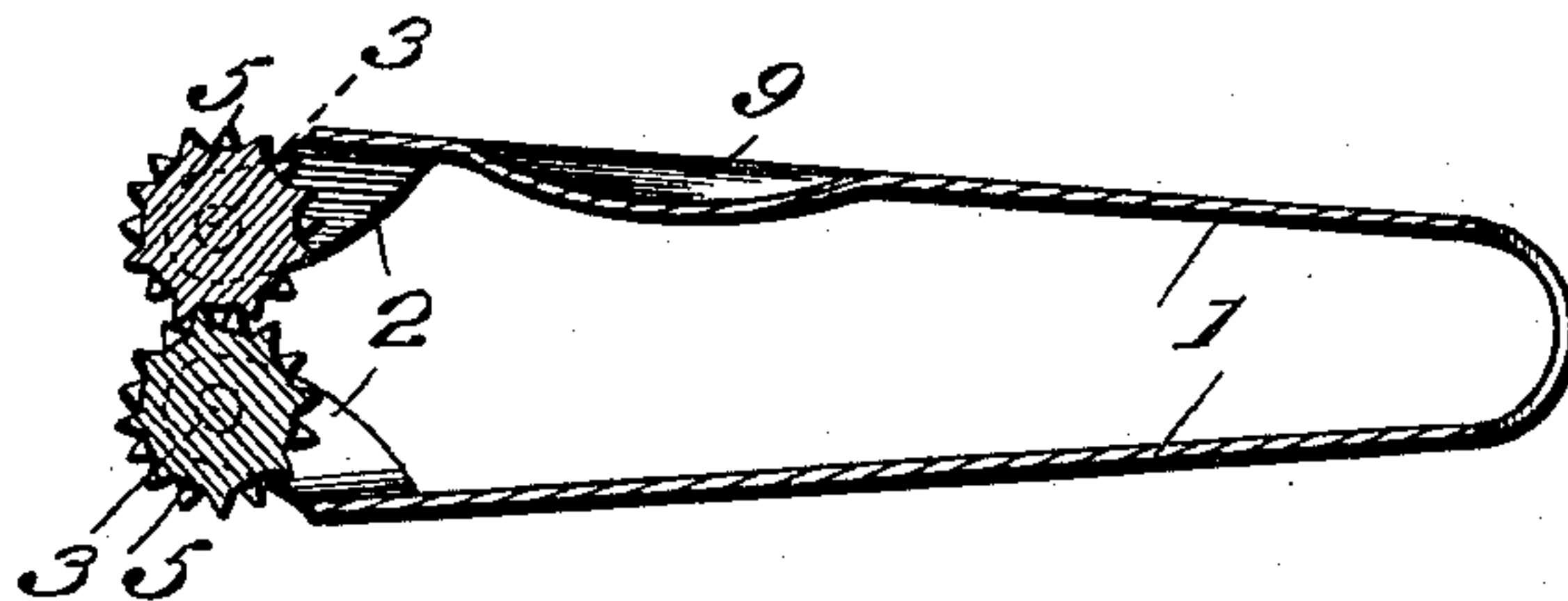


Fig. 3.

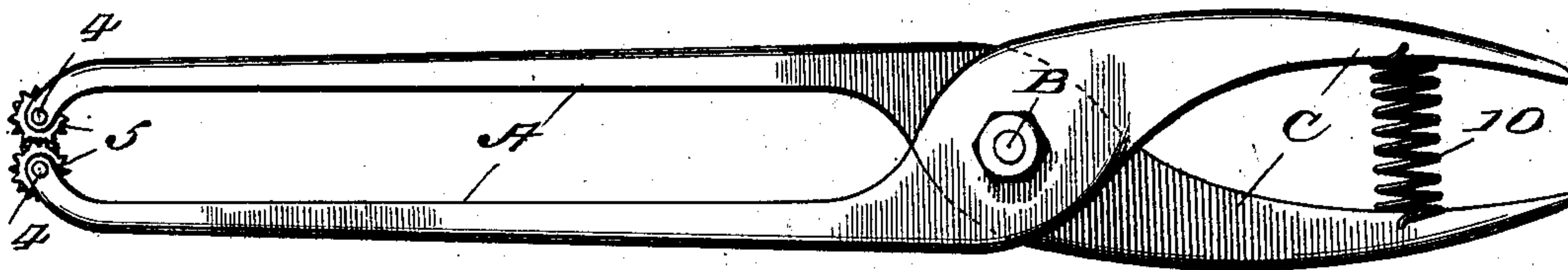
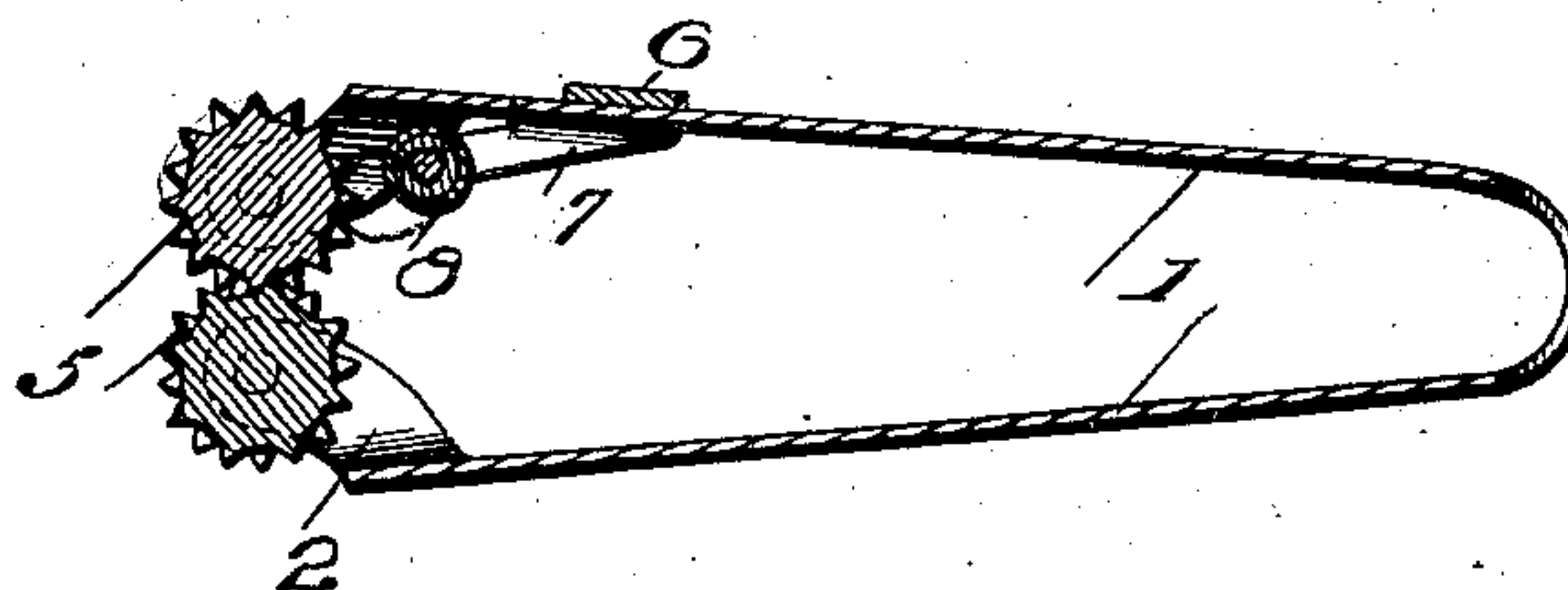


Fig. 4.

Inventor

Inventor

Peter Grabler

ଝିଅ

By *Freightman*
Attorney

Attorney

Witnesses

John B. Torkan

UNITED STATES PATENT OFFICE.

PETER GRABLER, OF CLEVELAND, OHIO, ASSIGNOR, BY MESNE ASSIGNMENTS, TO COLUMBIA SPECIALTY MANUFACTURING COMPANY, OF WASHINGTON, DISTRICT OF COLUMBIA, A CORPORATION OF WEST VIRGINIA.

PAPER-MARKER.

SPECIFICATION forming part of Letters Patent No. 690,853, dated January 7, 1902.

Application filed October 22, 1901. Serial No. 79,570. (No model.)

To all whom it may concern:

Be it known that I, PETER GRABLER, a resident of Cleveland, Ohio, have invented a new and useful Improvement in Paper-Markers, which invention is fully set forth in the following specification.

This invention relates to devices designed for marking certain parts of checks, drafts, or other instruments in order to prevent alteration of the important words and figures thereon.

The object of the invention is to produce a device for this purpose having the characteristics of simplicity, cheapness, compactness, efficiency, and convenience in use.

The invention comprises, essentially, a pair of coacting serrating devices, preferable in the form of rollers, having serrated surfaces, the rollers being pivoted in a suitable frame or support capable of being manipulated in such manner as to compress the paper between the rollers and by a movement of the latter relative to the former to produce on the paper a band of indentations of any desired length coextensive with the words or figures which it is desired to protect from alteration.

To accomplish effectually the purposes of the invention, it is desirable that the serrations should be such as to produce a permanent distortion, abrasion, bruising, or straining of the fibers of the paper which could not be obliterated by smoothing or other treatment of the indented parts.

The invention may be embodied in many different forms. In the simplest form contemplated the marker-frame consists of a single piece of spring metal bent upon itself and having the rollers journaled in the respective ends thereof, the axes of the rollers being either parallel with the frame or transverse thereof. In this form the rollers stand normally a slight distance apart, so that the paper can be introduced between them. The user then presses the rollers firmly together and by moving them relative to the paper indents or serrates the portion thereof which it is desired to protect. The bifurcated frame may consist of rigid arms pivoted after the manner of a pair of shears and may

be combined with a spring acting either to bring the rollers together or to separate them. Other modifications of form will suggest themselves to skilled mechanics.

It is obvious that in order to perform properly the desired operation the serrations of one roller must intermesh with those of the other. Ordinarily the members of the frame would yield sufficiently to furnish the slight lateral displacement necessary for this purpose; but it is preferred to give the rollers a slight freedom of movement axially in their bearings. The points of the serrations of one or both rollers may, if desired, be sufficiently sharp to puncture the paper; but this is not regarded as essential to the end in view.

The invention includes an inking attachment adjustable with relation to and acting in conjunction with one of the serrating-rollers in order to tint the surfaces which are raised above the plane of the sheet of paper by the process of serrating. This attachment may of course be dispensed with.

In the accompanying drawings are illustrated by way of example several forms in which the invention is or may be embodied.

Figure 1 is a top plan view of a device embodying the invention. Fig. 2 is a longitudinal sectional view. Fig. 3 is a similar view with the inking attachment applied. Fig. 4 is a side view of a construction differing in detail from that of the other figures.

In Figs. 1, 2, and 3 the frame 1 is formed of a strip of resilient metal bent on itself and having ears 2 integral therewith. The ears have holes 3 and act as bearings for the trunnions 4 of the rollers 5, said rollers having serrated or otherwise roughened surfaces which indent the paper in contact with which they are pressed. The rollers have slight axial movement in the bearings in order to permit the meshing of the milled surfaces when pressed into contact or against paper interposed between said rollers. On one arm of the frame is a depression 9 for engagement of the thumb of the user. The inking attachment comprises a plate 6, having its ends turned under to embrace the edges of the frame. The plate is slidable on the frame

and can be moved by means of the thumb of the operator. Arms 7, formed with the under-turned ends of the plate 6, act as bearings for the inking-roll 8, said inking-roll being of any suitable construction to carry ink and having trunnions journaled in the bearings of the arms. The serrating-roller acts on the paper on a plane considerably below that of the inking-roll in order that the paper operated upon may not be discolored through contact with said inking-roll.

In the modification shown in Fig. 4 the rollers are mounted on the ends of two arms A, having a pivotal connection B, the extensions beyond the pivot serving as handles. A spring 10 between the extensions tends to press them apart. In using this device the rollers are separated for introduction of the paper by grasping the handles and are brought together to act on the paper by the pressure of spring 10. The instrument would obviously be operative without the spring.

Having thus fully described the invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A paper-marker comprising a frame, and two serrating-rollers mounted thereon adapted to be moved into coöperative rotation by the hand of the user and having pointed teeth adapted to permanently distort the surface of the paper acted on.

2. A paper-marker comprising two arms

movable by the hand of the user, and two co-acting serrating-rollers placed opposite each other on the arms and having pointed teeth adapted to permanently distort the surface of the paper acted on.

3. A paper-marker comprising a bifurcated frame, the two arms of which are movable by the hand of the user, and two coacting serrating-rollers journaled one on each arm and having pointed teeth adapted to permanently distort the surface of the paper acted on.

4. In a paper-marker, a frame comprising a strip of metal bent on itself and having ears integral therewith, and paper-roughening rollers journaled in the ears.

5. In a paper-marker, a frame comprising a strip of metal bent on itself and having ears integral therewith, rollers journaled in the ears, a plate movable on the frame and an inking-roller carried by the plate.

6. In a paper-marker, a bifurcated spring-frame, bearings on each end of the frame, and rollers having serrated surfaces, journaled in the bearings.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

PETER GRABLER.

Witnesses:

PHILIP MAURO,
REEVE LEWIS.