

(No Model.)

2 Sheets—Sheet 1.

A. C. ADLER.
ROTARY HAND STAMP.

No. 587,253.

Patented July 27, 1897.

FIG. 1.

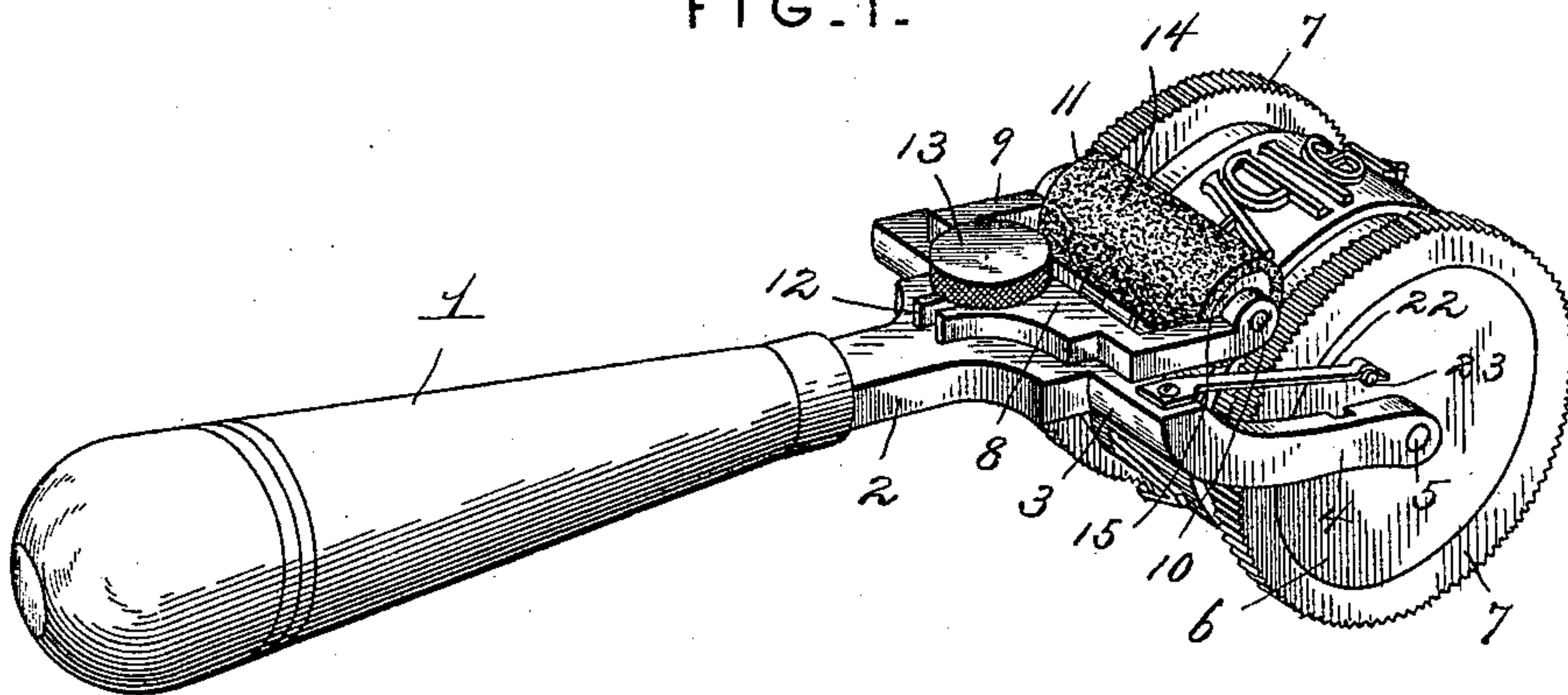


FIG. 2.

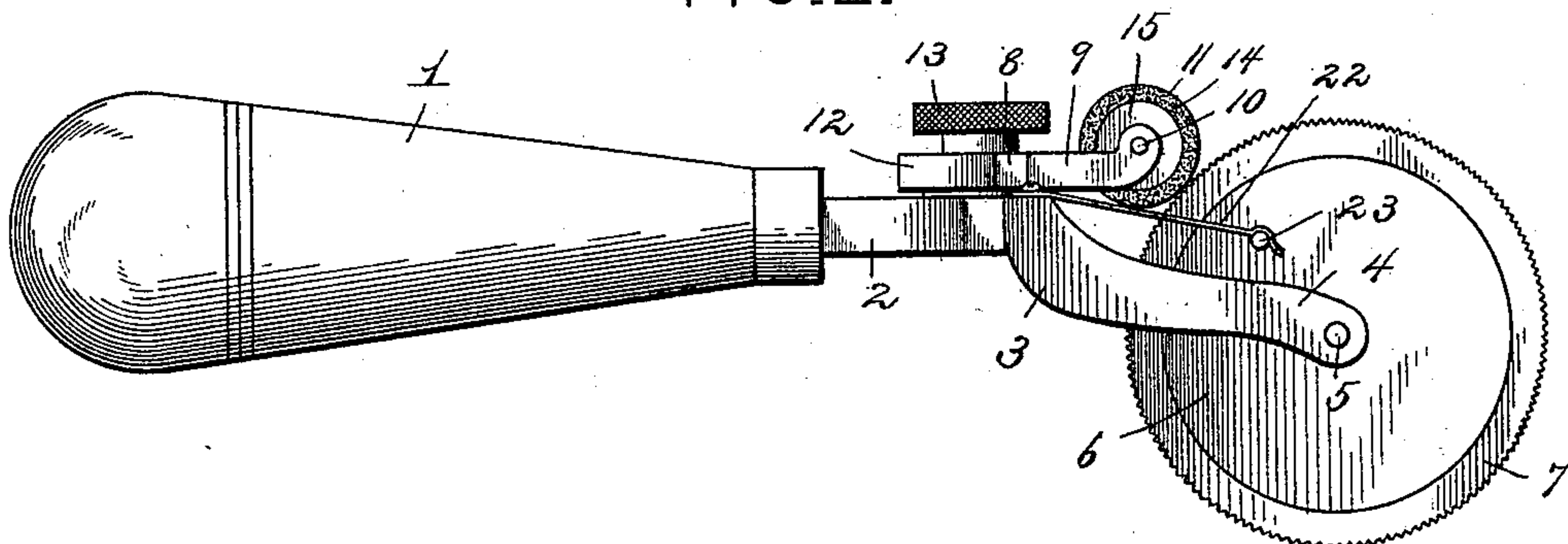
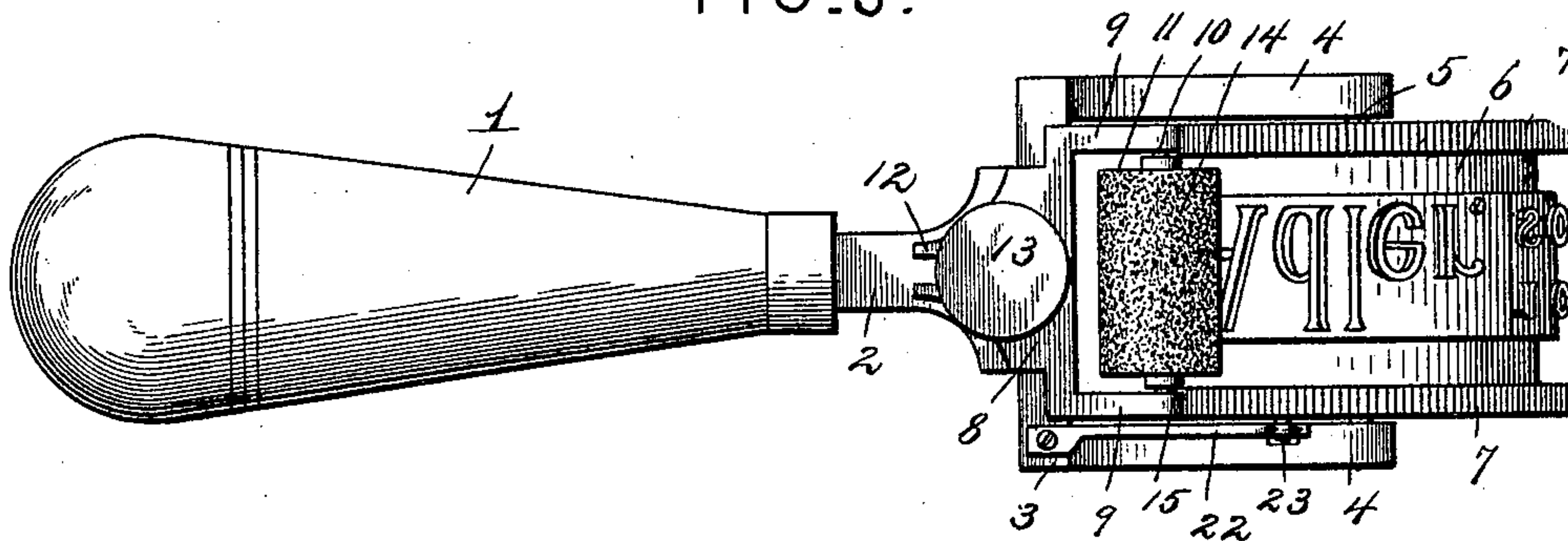


FIG. 3.



Inventor

Witnesses

Harry L. Amer.
R. M. Smith

By *his* Attorneys,

Alfred C. Adler.

C. A. Snow & Co.

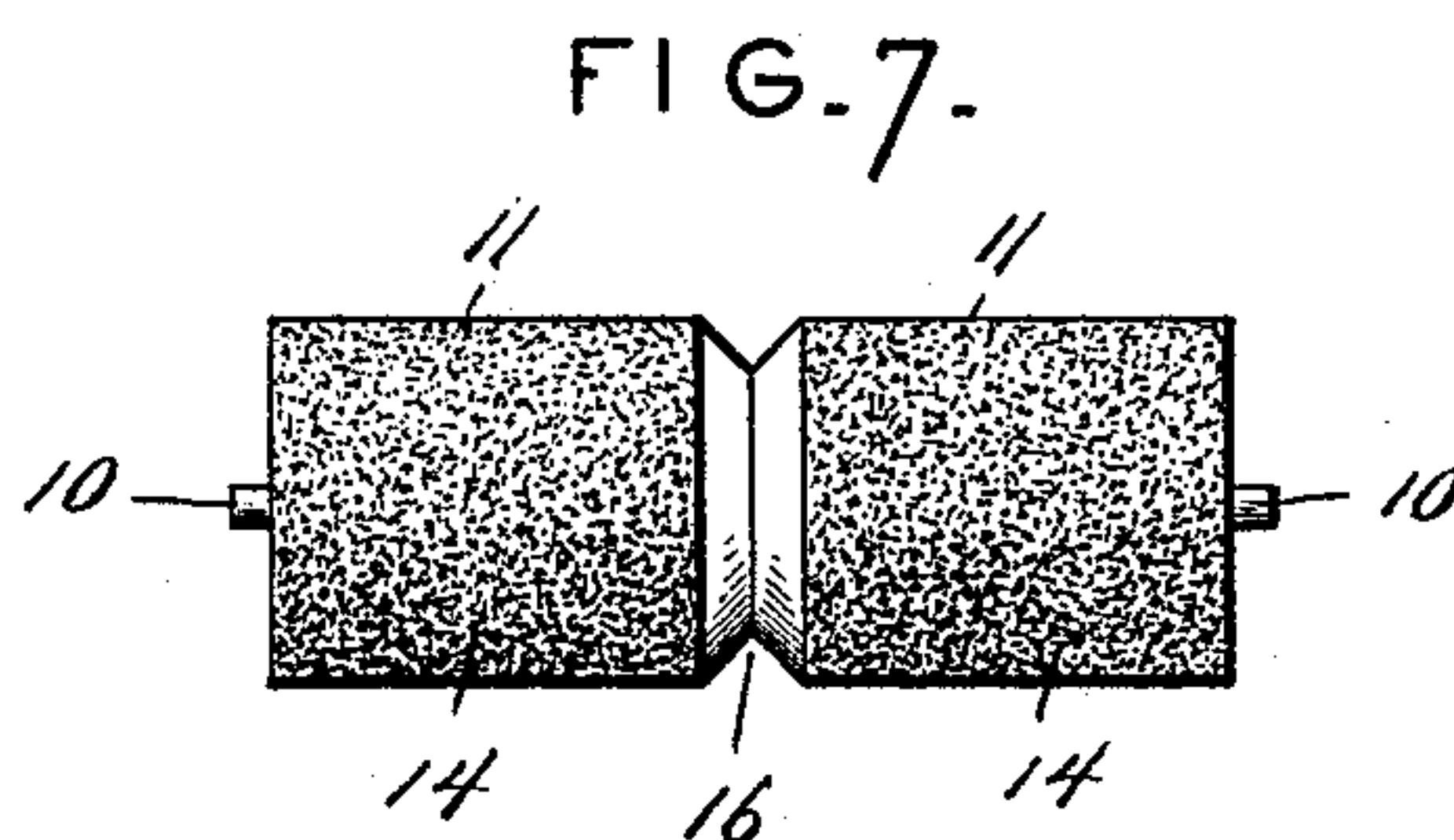
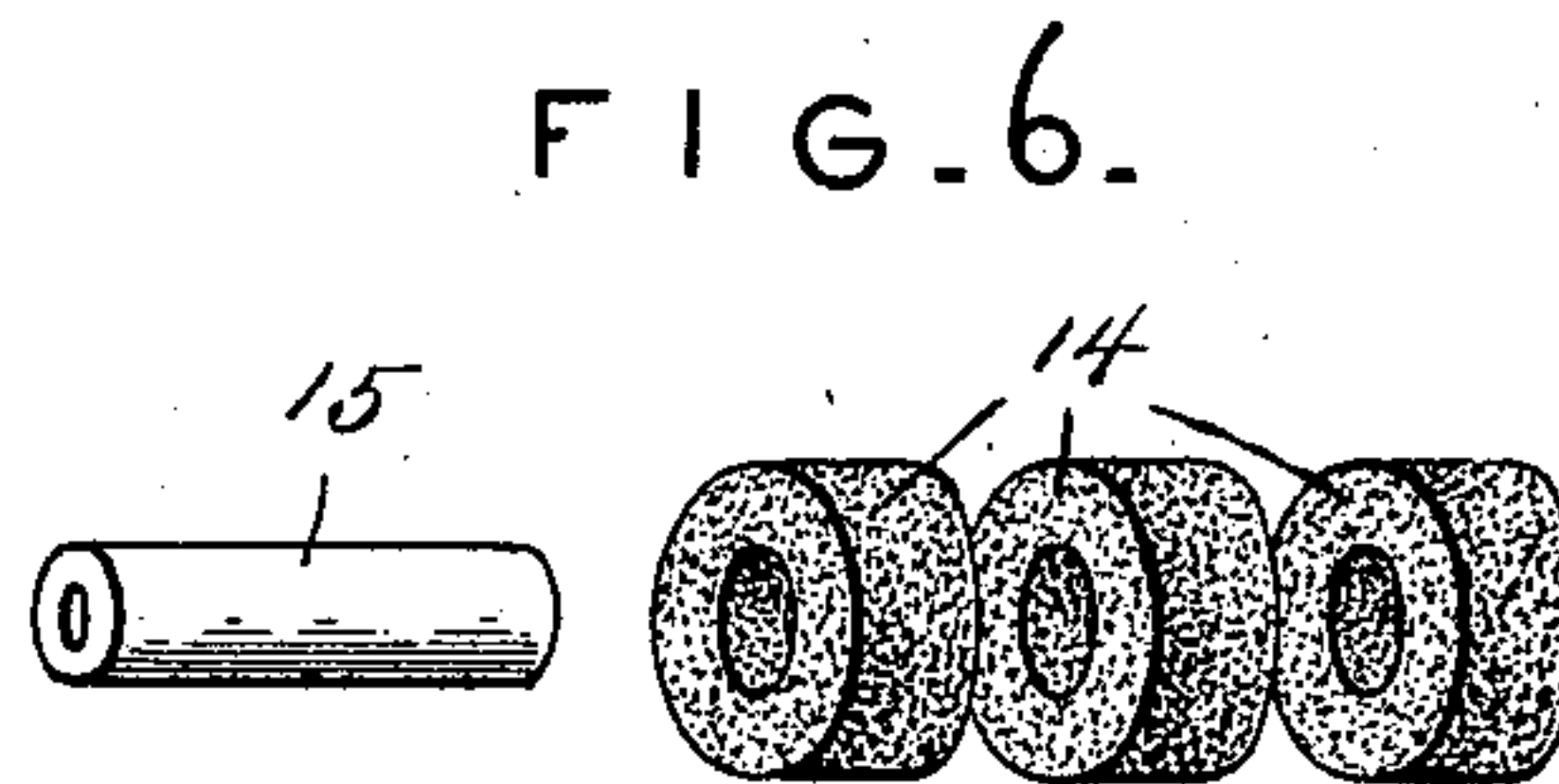
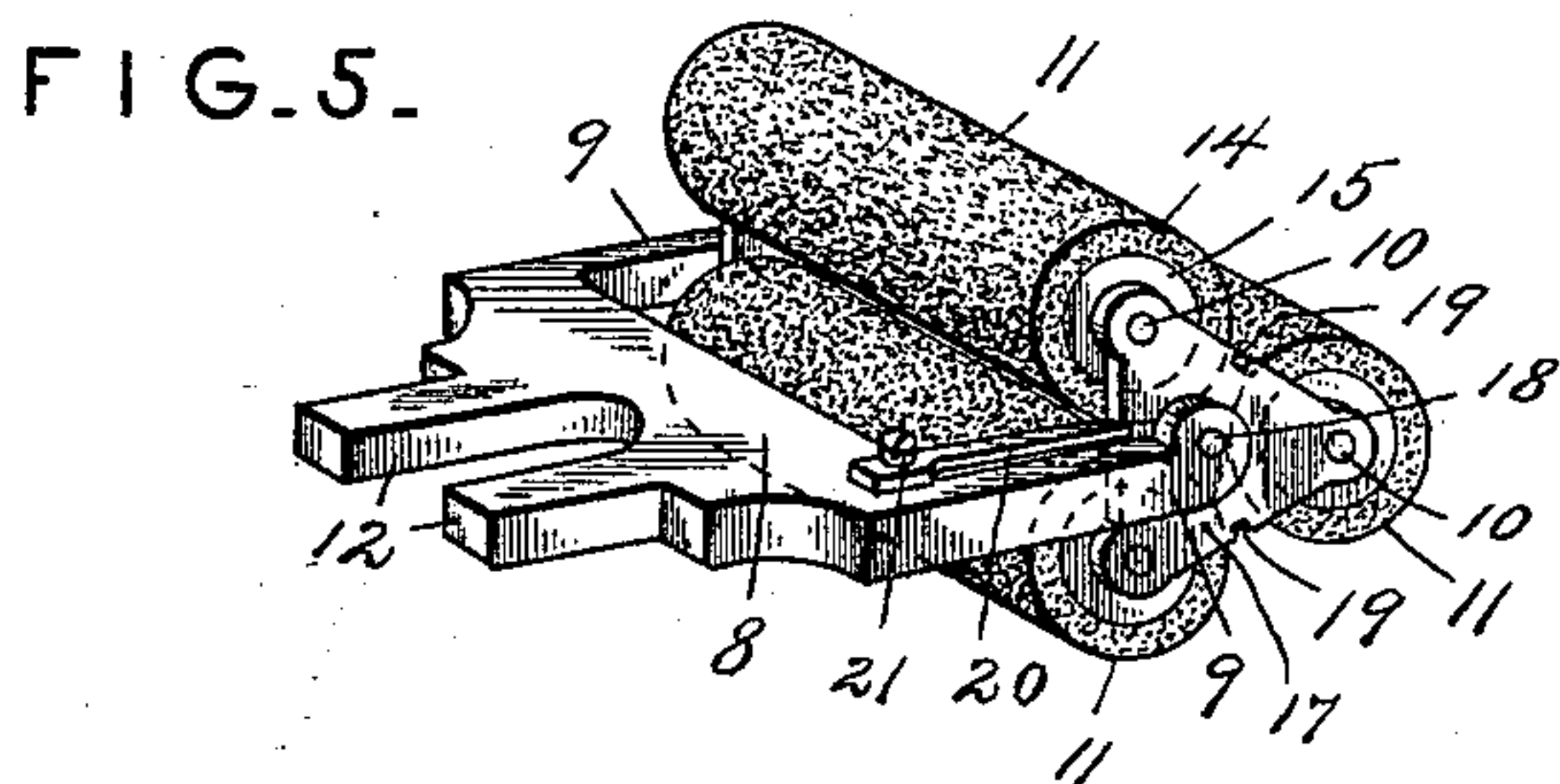
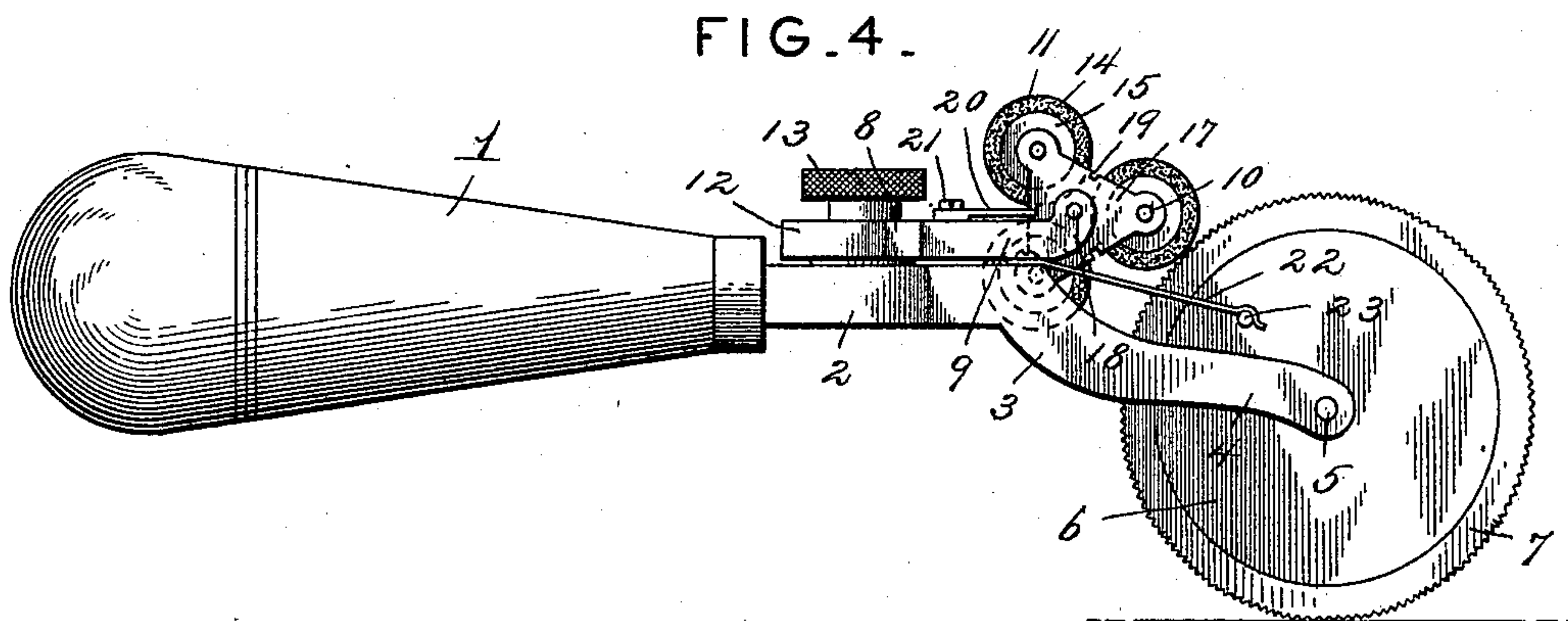
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2 Sheets—Sheet 2.

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UNITED STATES PATENT OFFICE.

ALFRED CHARLES ADLER, OF SOMERVILLE, MASSACHUSETTS.

ROTARY HAND-STAMP.

SPECIFICATION forming part of Letters Patent No. 587,253, dated July 27, 1897.

Application filed November 21, 1895. Serial No. 569,673. (No model.)

To all whom it may concern:

Be it known that I, ALFRED CHARLES ADLER, a citizen of the United States, residing at Somerville, in the county of Middlesex and State of Massachusetts, have invented a new and useful Self-Inking Rotary Rubber Stamp, of which the following is a specification.

This invention relates to an improvement in rotary stamps of the self-inking class, and has for its object to provide such a stamp of simple, inexpensive, and efficient construction, in which provision is made for regulating the strength of impression for adjusting the pressure of the inking-roller and for bringing rollers of different colors into working relation to the printing-roller.

Other objects and advantages of the invention will appear in the course of the subjoined description.

The invention consists in certain novel features and details of construction and arrangement of parts, whereby simplicity and increased utility are attained, as hereinafter fully described, illustrated in the drawings, and finally pointed out in the claims hereto appended.

In the accompanying drawings, Figure 1 is a perspective view of the improved self-inking rotary stamp, the same being constructed in accordance with the present invention. Fig. 2 is a side elevation of the same. Fig. 3 is a plan view thereof. Fig. 4 is a side elevation showing the device with a group of different inking-rollers. Fig. 5 is a detail perspective view of the adjustable bearing-frame and a triangular group of inking-rollers journaled therein. Fig. 6 is a similar view showing the construction of one of the inking-rollers. Fig. 7 is a detail view of a modified form of inking-roller.

Similar numerals of reference designate corresponding parts in the several figures of the drawings.

Referring to the drawings, 1 designates a suitable handle, which receives the shank 2 of a bifurcated frame 3, having oppositely-disposed arms 4, the extremities of which have alined openings, in which is received the spindle 5 of the printing-roller 6 of the improved device.

The printing-roller 6 is cylindrical in form and of any desired diameter, according to the

dimensions of the stamp to be mounted thereon. The printed matter comprises an ordinary rubber stamp, which is secured to the peripheral surface of the roller by cement or in any desired or convenient manner.

7 indicates a pair of rubber treads or rims, which are applied to and surround the cylinder at the opposite sides or ends thereof, the radial thickness of said treads corresponding to the proximal thickness of the rubber form and serving to equalize the pressure upon such form, so that an even impression may be obtained. The peripheral portion of the treads 7 are also transversely milled or serrated, so that a firm frictional engagement is established at all times between the printing-roller and the surface being printed.

The arms of the frame in which the printing-roller is journaled are inclined downwardly from the shank of the handle toward their extremities, so as to locate the center of the printing-roller below the plane of the handle. The object in thus depressing the arms of said frame is to provide for the attachment to the upper flat bearing-surface of said frame of a supplemental frame in which the inking-roller is journaled. This supplemental frame 8, like the main frame, comprises opposite spaced arms 9, which receive in their extremities the spindle 10 of the inking-roller 11. This supplemental frame is also formed with a slotted extension 12, by means of which it is secured to the main frame with the aid of a binding-screw 13, the shank of which enters a threaded socket in the main frame, the head bearing against the upper surface of the inking-roller frame. This construction also admits of adjusting the inking-roller toward or away from the printing-roller for establishing the desired contact between the inking-roller and the rubber form. Not only this, but the inking-roller and its frame may be readily detached from the main frame and another frame with an inking-roller of different color substituted.

The inking-roller may be made in one piece or in several sections, each of which is in the form of a washer or annular pad 14. A sufficient number of these washers or pads, which are made preferably of felt, are mounted upon a tubular bearing-sleeve 15 and pressed firmly together, and this bearing-sleeve re-

ceives the spindle of the inking-roller frame above referred to. Should it be desirable to print in two colors at the same time—that is, to apply ink of one color to a portion of the form and ink of another color to the remaining portion thereof—an inking-roller with a V-shaped groove 16 may be utilized in lieu of the solid one, the said groove serving to effectively prevent the different colors from commingling. The form of the roller last referred to is illustrated in Fig. 7.

In Fig. 4 and 5 I have shown how a series or group of inking-rollers may be used in connection with the same rotary stamp. This is accomplished by journaling three, or more or less, rollers in and between an oppositely-disposed pair of bearing-plates 17. Three of these rollers are shown, and in this event the bearing-plates 17 are made triangular in shape, the inking-rollers being journaled upon spindles passing through the angles of such plates. Each of the plates is also formed with a central-bearing opening, by means of which the cluster or group of rollers is revolutely mounted upon the spindle 18 of the supplemental roller-frame. Intermediate the rollers and centrally of each flat side or edge of one of the bearing-plates 17 is a notch 19, which is adapted to be engaged by the swinging end of a lock-plate 20, pivotally mounted upon the inking-roller frame by means of a binding-screw 21.

The locking-plate 20 may be swung laterally out of engagement with the bearing-plate 17, allowing any one of the inking-rollers to be brought into contact with the impression-roller, when the locking-plate may be re-engaged with the desired notch in the bearing-plate and the adjusted position of the inking-roller thus preserved.

If desired, the binding-screw 21 may be tightened for preventing accidental disengagement of the locking-plate.

A retaining-spring 22 is secured at one end to the printing-roller frame and has its forward free end crimped to engage a laterally-projecting pin or stud 23 at the side of the printing-roller. The printing-roller is allowed to revolve freely until the pin 23 snaps into the crimp of the retaining-spring, whereupon further motion of the printing-roller is prevented. This construction enables the operator to start the printing-roller at the proper point, so as to make one complete impression of the form on the periphery of said roller.

By means of the construction above described it will be seen that a very imple and efficient marking device is obtained which may be manufactured in any desired size either for marking linen or labeling or addressing packages, boxes, &c. By the con-

struction described it is also an easy matter to change the inking-rollers, employ inking-rollers of different colors, and to adjust them into the proper working relation to the form. The pressure upon the form of the printing-roller is also equalized by means of the rubber treads hereinbefore described.

Various changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

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

1. In a self-inking stamp, the combination of a bifurcated frame provided with a straight flat portion to form a bearing-surface and having its arms downwardly deflected, a printing-roller journaled between said arms with its center arranged in a plane beneath the plane of the flat bearing-surface of the frame, a straight flat supplemental frame arranged on the flat bearing-surface of the said frame in a plane above the center of the printing-roller and provided with straight forwardly-extending arms, said supplemental frame having a longitudinal slot, a substantially vertically disposed clamping-screw passing through said slot and adjustably connecting the frames, and an inking-roller journaled between the arms of the supplemental frame and bearing against the printing-roller, substantially as described.

2. In a rotary self-inking stamp, the combination with the printing-roller, the frame in which said roller is mounted, and the handle for actuating said frame, of a longitudinally-adjustable inking-roller frame, a group of inking-rollers severally journaled in bearing-plates pivotally mounted in the inking-roller frame, and means for holding either of said inking-rollers in engagement with the printing-roller, substantially as and for the purpose described.

3. In a rotary self-inking stamp, the combination with the printing-roller and the frame in which said roller is mounted, of a longitudinally-adjustable inking-roller frame, a group or series of inking-rollers severally journaled in bearing-plates which are in turn journaled in the inking-roller frame, and an adjustable locking-plate adapted to be moved into and out of engagement with one of said bearing-plates, substantially as and for the purpose described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ALFRED CHARLES ADLER.

Witnesses:

JOHN H. BROWN,
B. B. JOHNSON.