F. A. BARY.

SELF INKING PROOF ROLLER.

APPLICATION FILED JAN. 13, 1908.

913,189.

Patented Feb. 23, 1909.

2 SHEETS—SHEET 1.

Fig. 1.

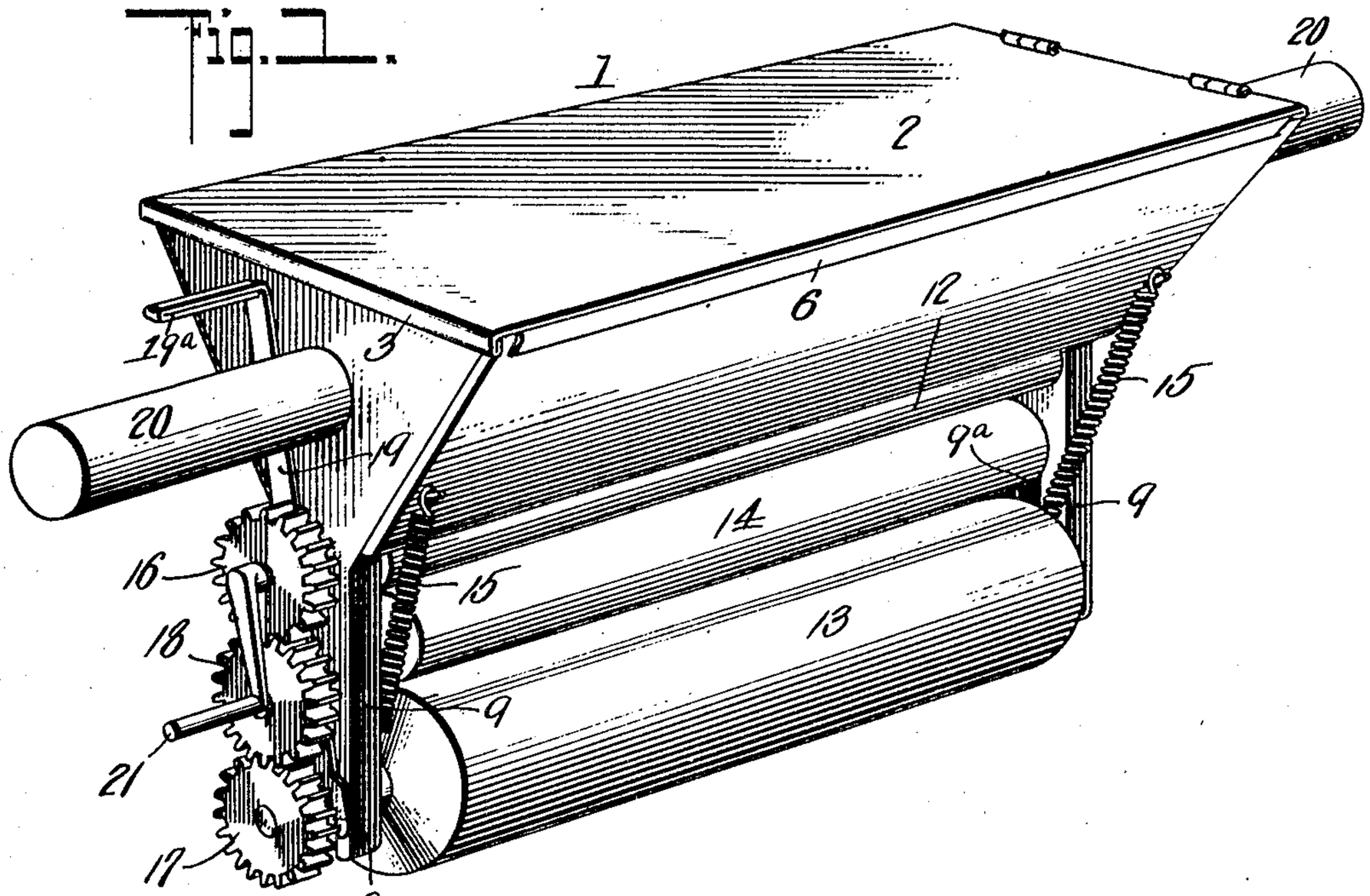
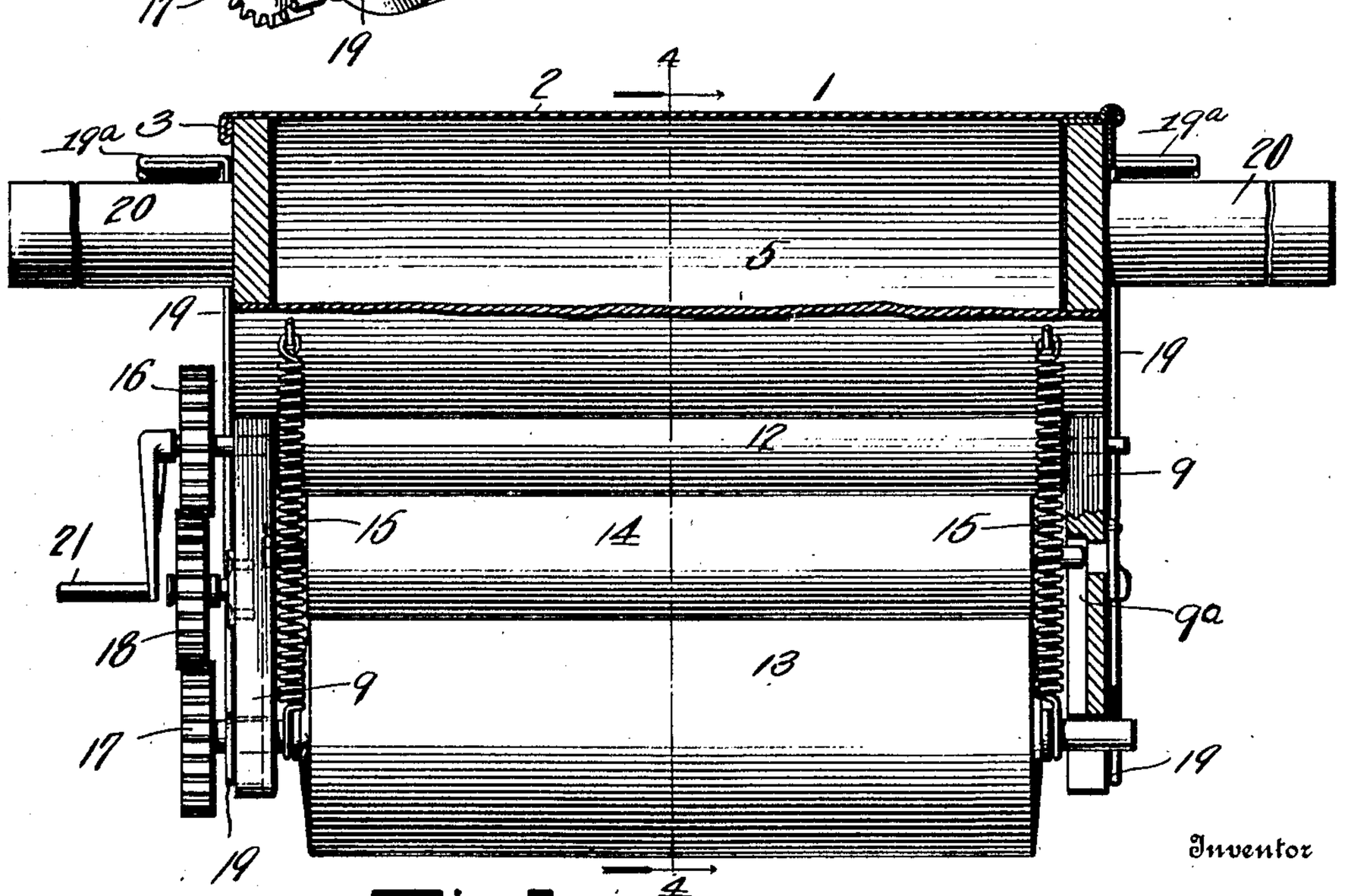


Fig. 2.



Witnesses

Oliver W. Holmes

E. B. McBath

Inventor

Frank A. Bary,

By O'Meara & Brock

Attorneys

F. A. BARY.

SELF INKING PROOF ROLLER.

APPLICATION FILED JAN. 13, 1908.

913,189. Patented Feb. 23, 1909.

2 SHEETS—SHEET 2.

Fig. 3.

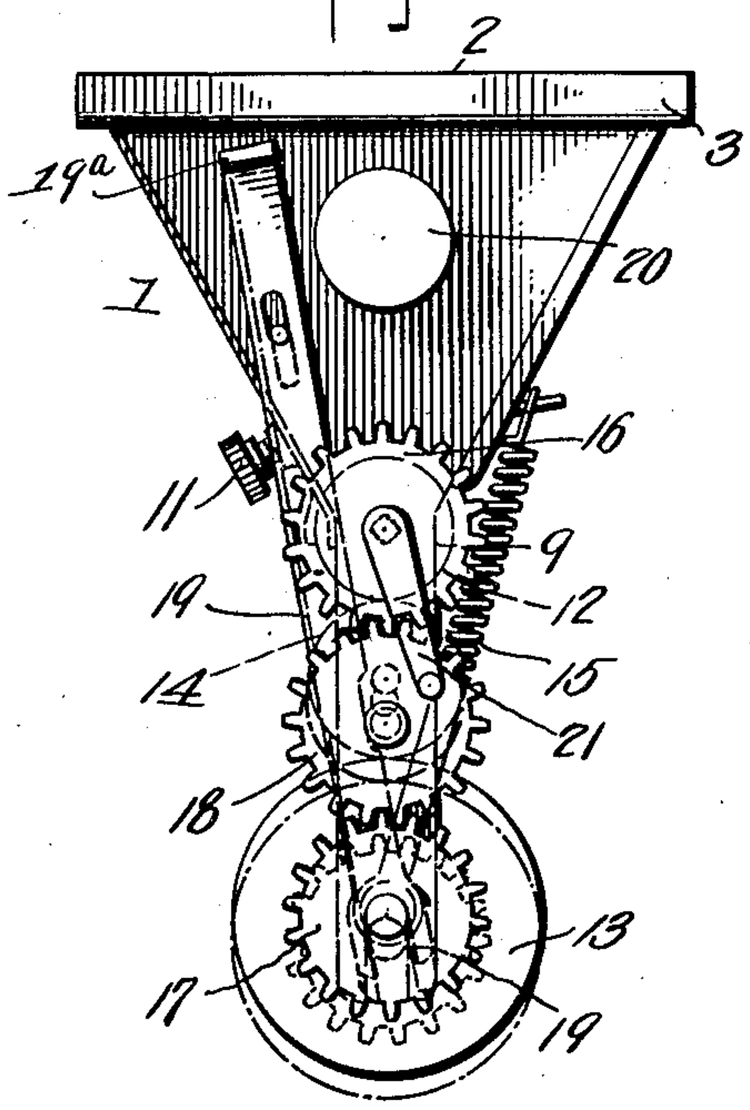


Fig. 4.

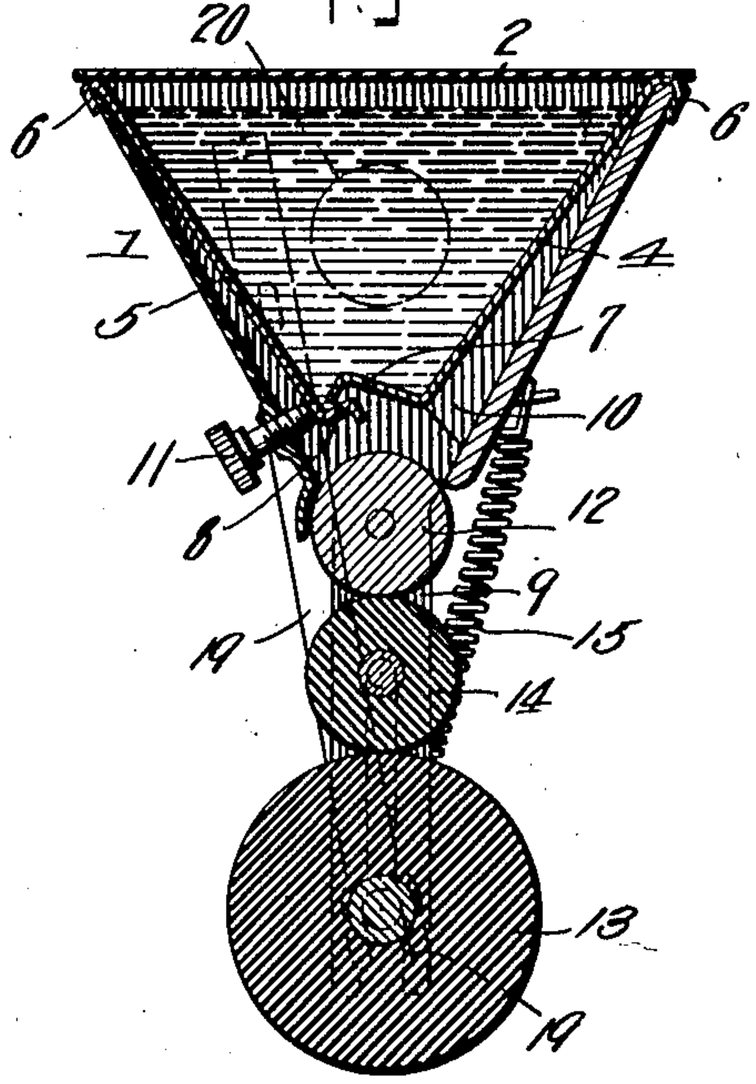


Fig. 5.

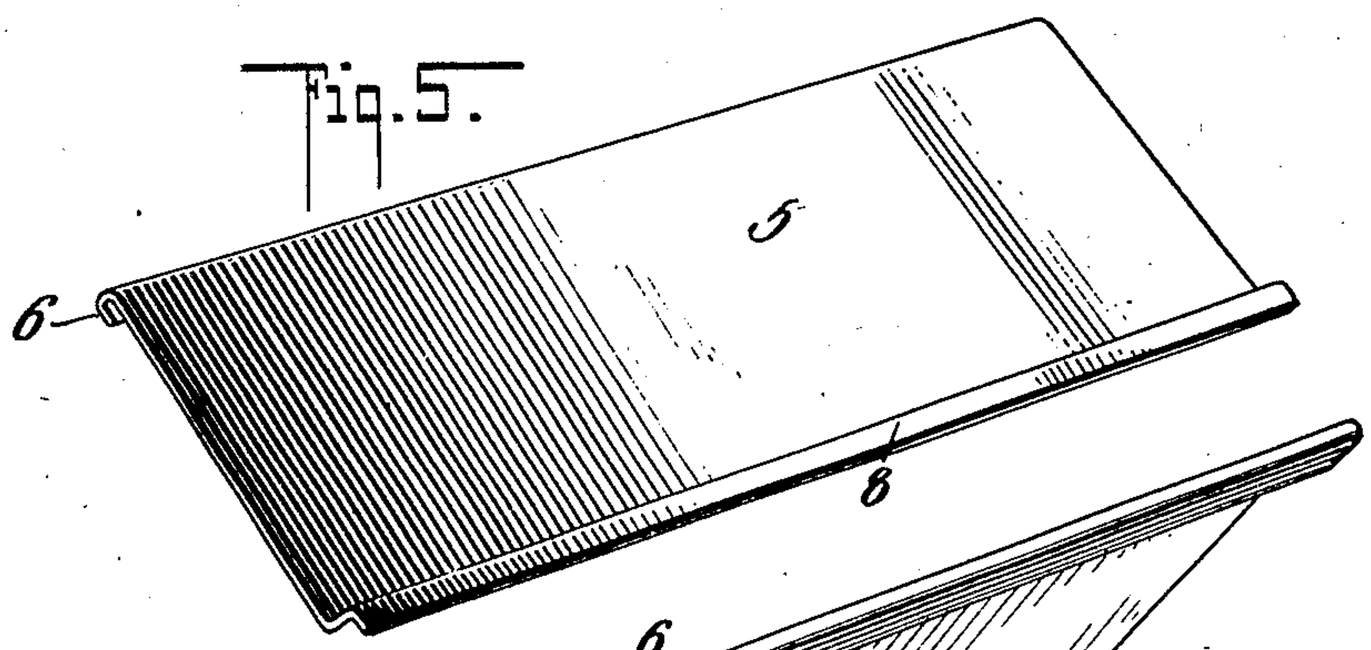
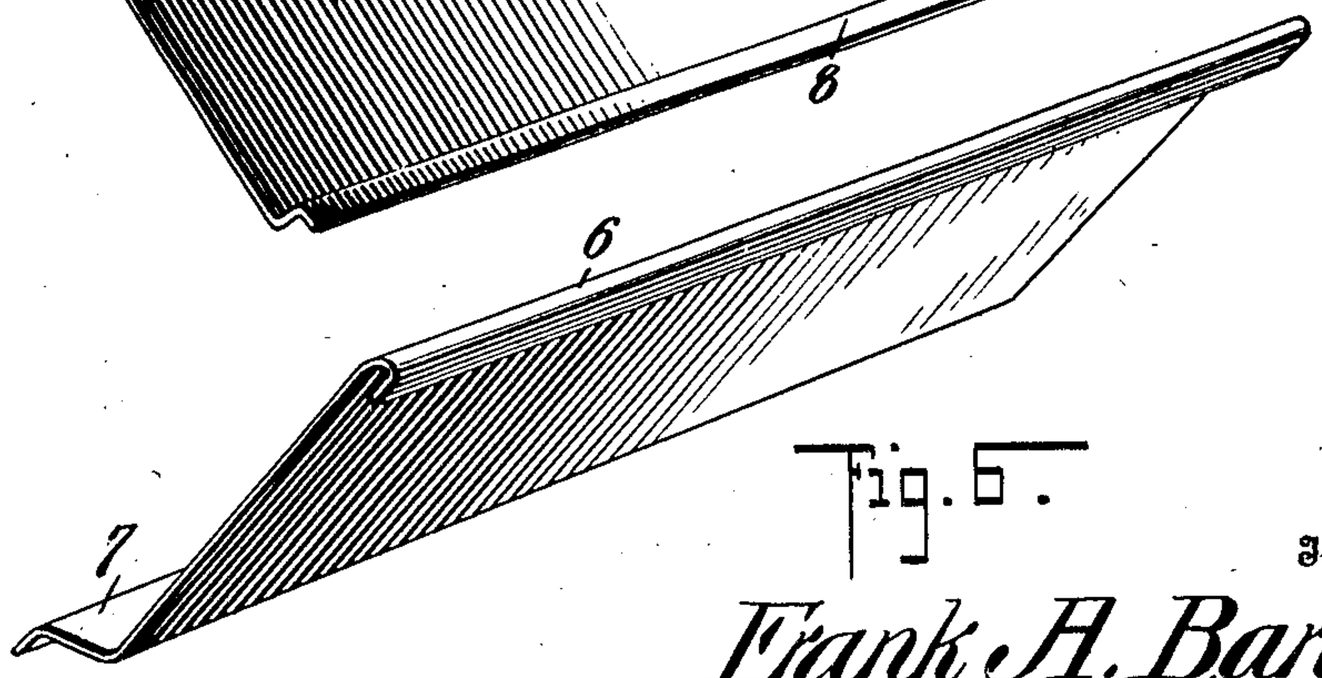


Fig. 6.



Witnesses

Alva W. Holmes

E. B. McBath

Inventor

Frank A. Bary,

By O'Meara & Brock

Attorneys

UNITED STATES PATENT OFFICE.

FRANK A. BARY, OF NEWPORT, KENTUCKY.

SELF-INKING PROOF-ROLLER.

No. 913,189. Specification of Letters Patent. Patented Feb. 23, 1909.

Application filed January 13, 1908. Serial No. 410,599.

To all whom it may concern:

Be it known that I, FRANK A. BARY, a citizen of the United States, residing at Newport, in the county of Campbell and State of Kentucky, have invented a new and useful Improvement in Self-Inking Proof-Rollers, of which the following is a specification.

This invention relates to a self-inking proof roller and the object of the invention is a device of this kind provided with means for regulating the flow of ink to the rollers, and a further object of the invention is a device of this kind in which a number of rollers are employed in combination with a suitable reservoir, the proof roller being adjustable with respect to the inking roller.

The invention consists of the novel features of construction hereinafter described, pointed out in the claims and shown in the accompanying drawings in which—

Figure 1 is a perspective view of the complete device. Fig. 2 is a sectional side elevation. Fig. 3 is an end elevation. Fig. 4 is a transverse section on the line 4—4 of Fig. 2. Figs. 5 and 6 are detail perspective views of reservoir plates, shown detached.

In constructing my device I employ a casing 1 which is provided with a top 2 hinged at one end and provided at the other end with an overlapping flange 3 to prevent entrance of dust to the casing 1. The top 2 also serves as a cover for an ink reservoir the sides and bottom of which are formed by two separate plates 4 and 5 the upper edges of said plates being bent upon themselves as shown at 6, forming flanges which engage the sides of the casing 1. These plates are arranged within the casing and converge toward each other, their lower ends being angled as shown at 7 and 8 to overlap. The casing 1 is also preferably made with downwardly converging sides which, however, are slightly spaced apart at their lower edges, and from the ends of said casing depend standards 9. The side plate 4 of the reservoir is supported by suitable cleats 10 carried by the ends of the casing 1, one of which is shown in Fig. 4. The plate 5 has its angled portion 8 extending under the lower edge of the plate 4 and is supported by a set screw 11. By adjusting this screw the distance between the lower portions of these plates 4 and 5 may be regulated, thereby controlling the amount of ink escaping from the reservoir into the casing 1 between the converging edges of the side plates. A metal roller 12 is journaled in fixed bearings formed in the standards 9, the periphery of said roller extending into the lower portion of the casing 1, and the roller being in vertical alinement with the place of discharge of ink from the reservoir.

A proof inking roller 13 of soft rubber is adjustably journaled in the lower end portions of the standards 9 and between said roller 13 and the metal roller 12 is loosely mounted an idle roller 14, the ends of said roller being reduced and resting loosely in grooves 9ª formed on the inner faces of the standards 9. Coil springs 15 have their upper ends secured to the casing 1 and their lower ends are secured to the end portions of the roller 13 thus normally holding the same into frictional contact with the idler 14 and in turn holding said idler in engagement with the inking roller 12. I also provide the rollers 12 and 13 with gear wheels 16 and 17 and upon one of the standards 9 I mount an idle gear 18 which intermeshes with the gears 16 and 17, the springs 15 normally holding the gear 17 into engagement with the gear 18, and the latter being at all times in engagement with the gear 16. To disengage the gears 17 and 18 I provide sliding bars 19 at each end of the casing 1 which bars are bifurcated to straddle reduced end portions of the proof inking rollers 13, and are angled at their upper ends as shown at 19ª for convenience of operation. I also provide the casing 1 with handles 20 at each end. It will also be obvious that by adjusting the screw 11 the flow of ink may be regulated to the roller 12 from which it will be distributed to the roller 14, which may be of any desired material and which in turn will serve as an inking roller for the proof roller 13. By depressing the bars 19 the proof roller 13 may be moved away from the inking roller 12, permitting the loosely mounted idle roller 14 to also fall away from said inking roller. I also provide a crank handle 21 for the gear 16, so that the gears may be rotated by hand when desired.

In operating the device it is moved over the surface to be inked away from the operator with the parts in position shown in the drawings, and the bars 19 are then depressed and the device drawn back with the roller 13 out of gear and rotating independently of the inking roller 12.

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

1. A device of the kind described comprising a casing, said casing being downwardly open, a series of rollers journaled in vertical alinement with the opening of the casing, and an ink reservoir carried by said casing, said reservoir comprising sides secured at their upper edges to the sides of the casing and having their lower edges overlapping, fixed supporting means for one of said sides, and adjustable supporting means for the other side.

2. In a device of the kind described, a casing substantially V-shape in cross section and opening downwardly, an ink reservoir formed within said casing, said reservoir comprising side members, the upper edges of said members being bent over the upper edges of the sides of the casing, the said reservoir sides being convergent, the lower marginal portions of said sides being angled and overlapping, an adjusting screw bearing upon one of said sides and holding it in its adjusted position with respect to the other, and a plurality of rollers supported from the casing and in vertical alinement with said reservoir, as and for the purpose set forth.

FRANK A. BARY.

Witnesses:
HOWARD M. BENTON,
LUCILLE GEISS.