Nov. 8, 1927. 1,648,534

A. BREUSCH

HAND OPERATED ROLLER STAMP

Filed May 18, 1926

Fig. 3.

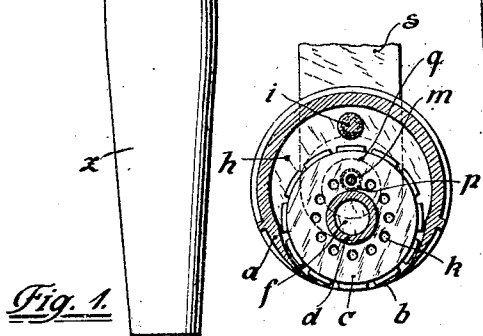


Fig. 1.

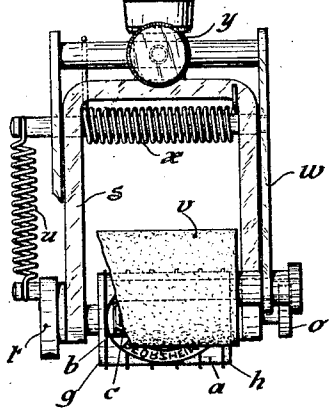


Fig. 2.

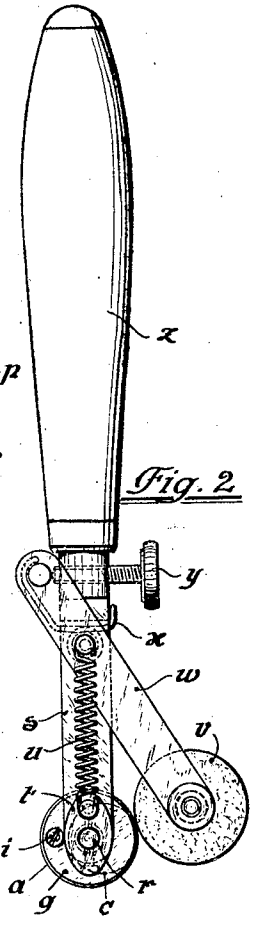
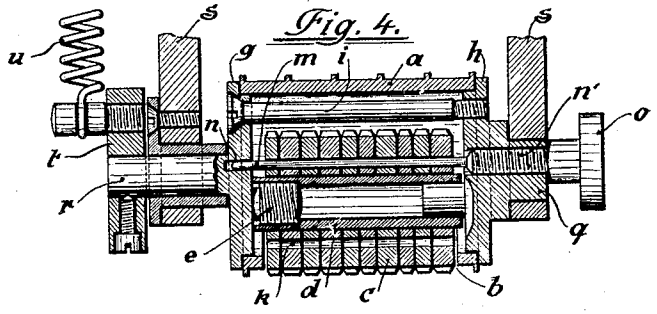


Fig. 4.



Inventor:
Adolf Breusch
by J. E. Murphy
Attorney

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UNITED STATES PATENT OFFICE.

ADOLF BREUSCH, OF PFORZHEIM, GERMANY.

HAND-OPERATED ROLLER STAMP.

Application filed May 18, 1926, Serial No. 109,885, and in Germany May 25, 1925.

This invention relates to a hand-operated roller stamp for cancelling postage stamps on parcels, baggy letters, box letters and the like.

From the roller stamps of known type the roller stamp according to the invention differs in that it is only of such dimensions that it can just hold a roller comprising an exchangeable and adjustable set of types and a holding screw for the side walls of the roller, said stamping roller being journaled by means of studs on the outer surfaces of its side walls, the locking pin for the type discs traversing one of the journals of the stamping roller, said roller being maintained in or returned after each stamping operation into such a position that, if the roller rotates, at first the stamp proper is stamped onto the support and then the filling designs. The roller is controlled by a pull spring attached to a crank mounted on one of the journals of the roller.

The advantages of this improved construction are that, owing to the short diameter of the roller, stamps are better and sharper printed on not quite plane surfaces, that the stamping is repeated at quite short time-intervals that the stamp proper is printed at the beginning of the stamping, and that the pin for adjusting and locking the type discs is more easily accessible than in the roller-stamps of known type.

The improved hand operated roller-stamp is shown, by way of example, in the accompanying drawing in which

Fig. 1 is a front elevation and

Fig. 2 a side elevation.

Fig. 3 is a longitudinal section through the stamping roller, on larger scale, and

Fig. 4 is a cross section of the same.

The stamping roller a, on the outer surface of which the frame, the name of the place where it is used, the number of the post-office and other standard indications are embossed, has, inside the embossed frame, an aperture b behind which the type discs c for the date and time arranged in the hollow space of the roller a are visible. The type discs c are mounted on an eccentric sleeve d. This sleeve d is screwed at the one end upon a threaded bolt e and pushed at the other end on a stud f, the bolt e and stud f being fixed the one in the side wall g and the other in the side wall h of the roller a. The side walls g and h are connected with one another by a screw i and pulled against the ends of the roller a. The type discs c have each holes k arranged in a circle and designed to receive a locking pin m. This pin m engages at one end in a bore n in the inner surface of side wall g and the head o at its other end is screwed into a threaded bore n' of side wall h, the journal q on this side wall h being of such diameter that the bore n' can extend through it. The journals q and r of the roller a are journaled in the ends of a U-shaped bow s. On the journal r an adjustable crank t is mounted to a stud of which a pull spring u is attached so that, after every stamping action, the roller a is returned into the normal position for printing first the types and figures and then the filling design.

An inking roller v resting upon the stamping roller a serves to ink said stamping roller and it is journaled in a U-shaped bow w hingedly fixed on the bow s, controlled by a spring x and adapted to be adjusted by means of an adjusting screw y.

The bow s has a handle z at the top end.

In order to stamp a letter or the like the handle of the stamp roller a is gripped and the roller is rolled over the letter or the like. The roller makes the ink roller v rotate by friction, owing to the pressure of spring x, so that it is inked.

Directly at the starting of the rolling movement of roller a that portion of its circumference, which contains the die of the stamp with the name of the place, the date and the time, comes into contact with the envelope. By the rotation of roller a the crank t mounted on the axle r is rotated also, so that the spring is put under tension, to pull the crank, after the lifting of the roller, back into the initial position corresponding to the initial position of the roller.

To alter the date and time the type rollers c may be rotated after the locking pin o has been unscrewed.

The whole stamping roller can be removed from the bearings after the crank has been removed together with the bearing bushes and the locking pin o. The stamping roller may be taken to pieces in order to interchange the type rollers after the screw i has been unscrewed.

I claim:—

1. A hand-operated roller stamp specially designed for cancelling postage stamps, or stamping parcels, baggy envelopes, box-shaped letters and the like, comprising in

combination, a hollow stamping roller having an aperture, end plates for said roller having annular grooves to be placed over the edges of said roller, eccentric trunnions on the outer side of each end plate, a set of type disks mounted in said hollow roller on said eccentric trunnions, a sunk screw with slot head for holding together said type disks designed to project through said aperture of said stamping roller.

2. A hand operated roller-stamp specially designed for cancelling stamps on parcels, baggy letters, box-letters and the like, comprising in combination a hollow rotary stamping roller of short diameter, type discs adjustably mounted in said hollow roller and having each holes arranged in a circle, separate side walls of said roller, one of said side walls having a cavity in its inner surface, a screw bolt connecting said side walls with one another and traversing said hollow roller, a journal on the outer surface of each side wall, the journal of the side wall which has no cavity in its inner surface having a threaded bore, a U-shaped bow having a handle and in which said journals are journaled, and a transverse pin traversing said holes of said type discs and designed to lock said type discs in the adjusted position, said pin being screwed into said threaded bore of the one of said journals and engaging at its other end in said cavity of the opposite side wall.

3. A hand operated roller-stamp specially designed for cancelling stamps on parcels, baggy letters, box-letters and the like, comprising in combination a hollow rotary stamping roller of short diameter, type discs adjustably mounted in said hollow roller and having each holes arranged in a circle, separate side walls of said roller, a screw bolt connecting said side walls with one another and traversing said hollow roller, a journal on the outer surface of each side wall, a U-shaped bow having a handle and in which said journals are journaled, a transverse pin traversing said holes of said type discs and designed to lock said type discs in the adjusted position, a crank adjustably mounted on the one of said journals which has no threaded bore, and a pull spring attached to said crank to return said roller into the normal position after each operation so that at the stamping the types are printed first.

In testimony whereof I affix my signature.

ADOLF BREUSCH.