C. S. ELLIS.

INKING PAD FOR HAND STAMPS.

APPLICATION FILED MAY 19, 1916.

1,229,425. **Patented June 12, 1917.**

Fig. 1.

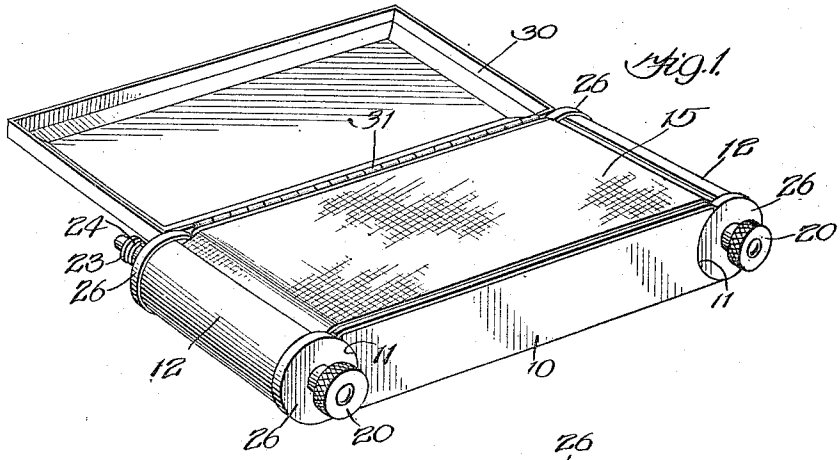


Fig. 2.

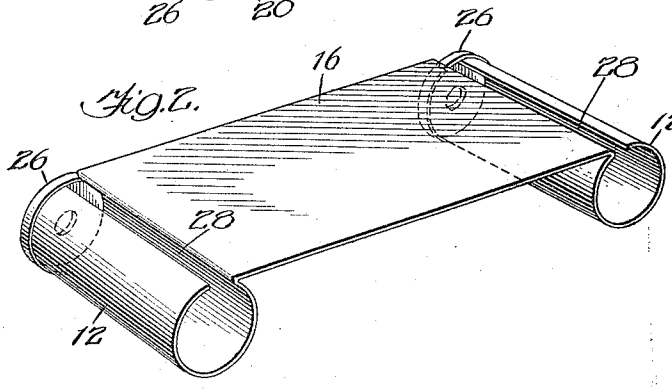


Fig. 3.

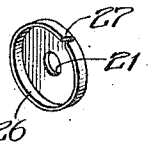


Fig. 4.

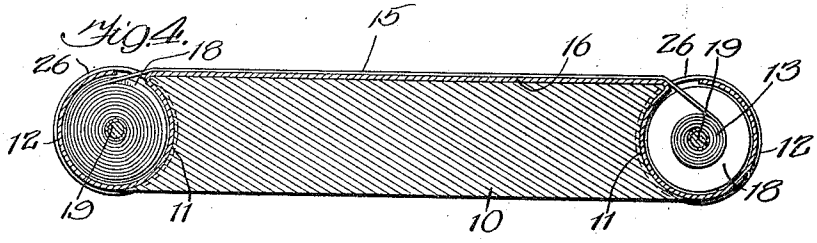
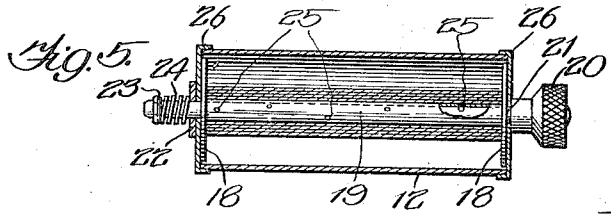


Fig. 5.



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INKING-PAD FOR HAND-STAMPS.

1,229,425. Specification of Letters Patent. Patented June 12, 1917.

Application filed May 19, 1916. Serial No. 98,510.

To all whom it may concern:

Be it known that I, CHARLES S. ELLIS, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Inking-Pads for Hand-Stamps; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this specification.

This invention relates to a novel inking pad for hand stamps, and the invention consists in the combination and arrangement of the parts shown in the drawings and described in the specification, and is pointed out in the appended claims.

Among the objects of the invention is to provide an exceedingly simple, compact, durable and economical inking pad, wherein the transfer medium for transferring the ink to the pad is an inked ribbon that is shifted across a support therefor from an unwinding reel to a take-up reel, whereby the ribbon before it is used is protected from evaporation and as it is used may be shifted across the support to present fresh surfaces for contact with a hand stamp.

As shown in the drawings:—

Figure 1 is a perspective top view of an inking pad embodying my invention.

Fig. 2 is a perspective view of the two reel cases of the pad and of the connecting plate.

Fig. 3 is a perspective view of one of the caps which close the ends of the reel cases.

Fig. 4 is a longitudinal sectional view of the pad structure.

Fig. 5 is a section on the line 5—5 of Fig. 4.

As shown in the drawings, 10 designates the base of the device, which may be made of wood or like light material. The ends of said base are provided with cylindric recesses 11, 11 to receive cylindric reel cases 12, 12, in which are mounted reels, 13, 13 to receive an inked ribbon 15 that is stretched between the two reel cases and is supported between the cases by the base 10. The said reel cases are approximately of a diameter equal to the thickness of the base. Preferably, and as herein shown, the two reel cases are made parts of a single piece of metal, together with a connecting plate 16 that lies over or upon the flat upper face of the base 10; the metal structure constituting said reel cases and the connecting plate being most clearly shown in Fig. 2. Said reels are provided at the ends of the connecting plate 16 with elongated ribbon openings 28 through which the ribbon is directed from the reels to the upper face of said plate and vice versa.

The reels consist of hollow barrels provided at their ends with end plates or flanges 18. They are held in position in said reel cases by means of shafts 19 which fit closely in said barrels. Each of said shafts is provided at one end with a hand piece 20 by which to turn it, and just inside said hand piece with a shoulder 21 to bear against the adjacent end of the reel case. Fitted over the other end of each shaft is a washer 22, between which and a shoulder 23 on said end is interposed a spiral brake spring 24. The said shafts 19 are adapted to fit within the barrel of the reels in such manner that the friction between the shafts and barrels serves to turn the reels. This frictional effect may be enhanced by denting the reel barrels in the manner indicated at 25.

Preferably the end walls of the reel cases are formed by removable caps 26 which are flanged over the ends of said cases and are provided with slots 27 to engage over the edges of the intermediate members. The said end caps of the reel cases need not fit tightly over the ends of the cases inasmuch as they are clamped or held in place by the fastening action of the shaft-holding means, the brake springs 24 serving to yieldingly hold the parts in place and to effect a braking or frictional action between the washer 22 and shoulder 21 on the one part and the said caps on the other part to prevent the ribbon winding and unwinding too freely.

Preferably and in practice, the device is provided with a swinging or other removable closure or lid 30, hinged at 31 to one edge of the connecting plate 16 so as to cover or inclose the portion of the inking ribbon which spans the space between the reels. In the continued use of the device the ribbon is shifted from one reel to the other across the intermediate support, which latter sustains the shocks due to the striking of the hand stamp on the ribbon. As the ink is exhausted from the ribbon, the ribbon is shifted from one reel to the other until the entire length of the ribbon has been used.

Thereafter the ribbon may be inked, either by applying the ink to the upper face of the ribbon as it is shifted from one reel to the other, or the ribbon may be removed and inked in a manner familiar to ribbon manufacturers.

It is obvious that, by reason of the strength of the base and by reason of the fact that the base is fixed or non-movable, the device will withstand without injury the shocks or jars due to the striking of the hand stamp against the ribbon surface, and that therefore the device is exceedingly durable and has no parts which are likely to become deranged in use. Moreover the device is compact and is very economical to construct and maintain.

I claim as my invention:—

1. An inking device for hand stamps comprising a base having a flat non-yielding upper stamp supporting face, reels at the ends of the base, flush at their upper sides with said flat surface, mountings for said reels which are vertically fixed relatively to each other and to said face, and an inked ribbon wound about said reels and stretching between them over and supported on said stamp supporting face.

2. An inking device for hand stamps comprising a relatively thick base provided at its ends with cylindric recesses and provided with a flat non-yielding upper stamp supporting face; reels mounted to rotate in said recesses and of a diameter substantially equal to the thickness of the base, and an inked ribbon wound upon said reels and stretched across the flat upper surface of the support.

3. An inking device for hand stamps comprising a relatively thick base member; a sheet metal member comprising an intermediate ribbon backing portion which rests on the base member and is formed at the ends of the base to provide reel cases; reels rotatively mounted in said cases, and a ribbon wound upon said reels and supported on the intermediate portion of the sheet metal member between said reel cases.

4. In an inking device for hand stamps, a sheet metal member composed of an intermediate solid ribbon support and end reel cases, reels rotatively mounted in said cases, and a ribbon wound upon the reels and stretched across the intermediate support between the reels, and upwardly exposed throughout the extent of said ribbon support.

5. An inking device for hand stamps comprising a base, a sheet metal member composed of an intermediate non-yielding ribbon support resting on said base and end reel cases; reels rotatively mounted in said cases, and a ribbon wound upon the reels and stretched across the intermediate support between the reels, the end walls of said reel cases being removable to permit the reels with the ribbon thereon to be removed from the cases, with means for fastening the end walls to the cases.

6. An inking device for hand stamps comprising a base or support having a non-yielding flat upper stamp supporting face; reel cases at the ends thereof with their tops substantially flush with said face; reels mounted in said cases comprising barrels and end flanges; shafts extending through said barrels and having frictional engagement therewith, each of said shafts being provided with a shoulder to frictionally engage the wall of the case and provided with a hand piece by which to turn the shaft and reel and a spring applied to the shaft to urge said shoulder against said wall.

7. An inking device for hand stamps comprising a base having a non-yielding flat upper stamp supporting face and provided at its ends with concave recesses, a sheet metal member comprising an intermediate portion which rests on said flat face of the base and provided at its ends with reel cases which are contained partially within said concave recesses, and provided between said intermediate portion and cases with elongated ribbon openings, reels in said cases and an inked ribbon attached at its ends to and wound upon said reels.

In testimony, that I claim the foregoing as my invention I affix my signature in the presence of two witnesses, this 12th day of May, A. D. 1916.

CHARLES S. ELLIS.

Witnesses:
W. L. HALL,
M. G. ADY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."