Sept. 23, 1958 R. R. ROBINSON 2,853,002

BAND STAMPS

Filed Nov. 13, 1956

FIG. 1

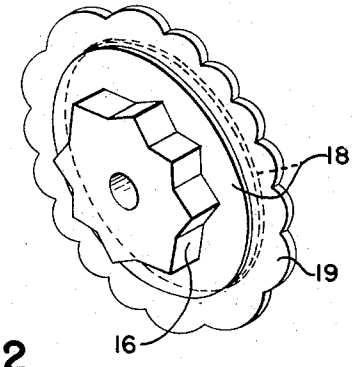


FIG. 2

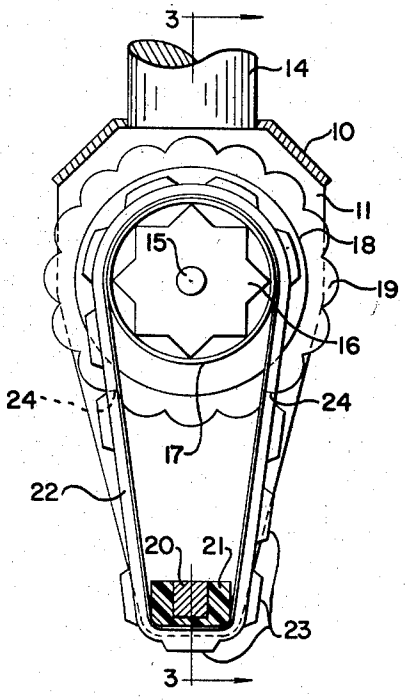
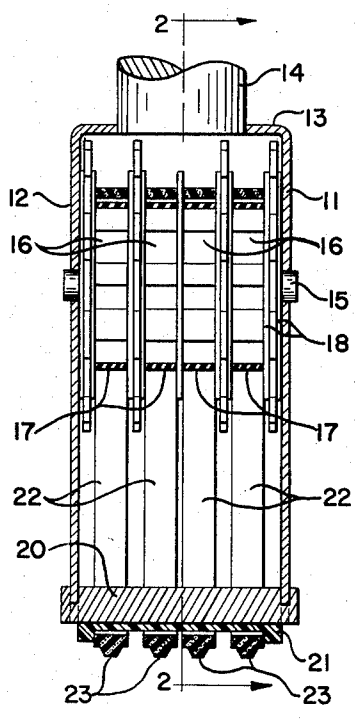


FIG. 3



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BAND STAMPS

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2 Claims. (Cl. 101—111)

This invention relates to improvements in band stamps, and particularly to a novel means to prevent ink from accumulating on the band setting wheel.

The object of the invention is to provide the setting wheels for band stamps with spacers on each side thereof to prevent contact between the band and the setting wheel.

Another object of the invention is to provide means on the setting wheels for a porous rubber ink saturated band for a hand stamp, to prevent ink from being transferred from the ink saturated band to the setting wheel thereof.

With these and incidental objects in view, the invention includes certain novel features of construction and combinations of parts, a preferred form or embodiment of which is hereinafter described with reference to the drawings which accompany and form a part of this specification.

Fig. 1 is a perspective detail view of a setting wheel for an ink saturated band stamp.

Fig. 2 is a cross sectional view of the hand stamp taken on line 2—2 of Fig. 3.

Fig. 3 is a cross sectional view of the hand stamp taken on line 3—3 of Fig. 2.

General description

The invention is shown applied to a hand stamp of the class shown in United States Patent No. 1,878,900, issued to H. Smallman, on September 20, 1932. As fully disclosed in United States Patent 2,598,806 to H. V. Lauer, on June 3, 1952, hand stamps of the type disclosed in Smallman may be provided with endless printing bands made of microporous rubbery material, which material is capillarily porous to ink, and the bands are saturated with ink when preparing the hand stamp for use.

It has been found that when using the above saturated printing bands, the ink is deposited on the sides of the setting disk and the fingers of the user of the hand stamp become soiled and ink stained.

To avoid such a result, the present invention consists in providing a disk, smaller in diameter than the setting wheels, at each side thereof, to maintain the inked band out of contact with the setting wheels.

Detail description

The hand stamp to which the invention is shown applied, is provided with a frame having side frames **11** and **12**, joined by a top piece **13**, to which is secured a handle **14**. A shaft **15** has rotatively mounted thereon a plurality of star wheels **16**. A band **17** of resilient material, such as rubber is placed upon each star wheel **16**. Secured to, or formed on each star wheel **16** is a pair of disks **18**, one on each side of a setting wheel **19**. The setting is provided with an uneven periphery to aid the

user in turning the assembly comprising the setting wheel **19**, disks **18** and star wheel **16**, which may be secured together, or may be molded in a single piece. When the star wheel is rotated, the band **17** is also rotated.

The lower ends of the side frames **11** and **12** fit into slots, or notches formed in a bridge **20**. The bridge **20** supports a U-shaped member **21** made of material having a low coefficient of friction to rubber, and the member **21** is recessed on its lower side to form a channel.

Endless bands **22**, made of microporous rubbery material, having raised type characters **23** spaced therearound, are guided in the spaces between the disks **18**, and over the bands **17**, which bands provide sufficient friction to move the endless bands to bring a desired type character in position beneath the channel **21**.

One form of microporous rubbery material used in the endless bands is disclosed in United States Patent 2,349,613, issued to Robert G. Chollar, and this patent explains how such material is made capillarily porous to ink. If the ink saturated bands **22** were permitted to come into contact with the setting wheels **19**, ink would be transferred thereto, particularly at the points **24** where the endless bands would rub against the periphery of the wheels **19**, this depository ink on the edges of the wheels **19**, causing the fingers of the users to become ink soiled. To avoid this, the disks **18** are provided to space the bands **22** from the wheels **19**. Without the disks **18**, the use of porous rubber bands would be impractical in hand stamps of the class to which the invention is shown applied.

While the form of mechanism herein shown and described is admirably adapted to fulfill the objects primarily stated, it is to be understood that it is not intended to confine the invention to the one form or embodiment herein disclosed, for it is susceptible of embodiment in various other forms.

What is claimed is:

1. In a hand stamp having ink saturated type bands, the combination of rotatable members on which the type bands are supported and by means of which the type bands are adjusted, a setting wheel connected to the rotatable member to facilitate rotation of the rotatable members, and a disk on the setting member and being smaller in diameter than the setting member, but larger in diameter than the rotatable member to space the type band away from the setting member.

2. In a hand stamp having ink saturated type bands, the combination of rotatable members on which the type bands are supported and by means of which the type bands are adjusted, a setting wheel connected to the rotatable member to facilitate rotation of the rotatable members, said setting member having a raised disk formed on each side thereof, said raised disk being less in diameter than the diameter of the setting member, and greater in diameter than the rotatable member to maintain the ink saturated band out of contact with the setting member.

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1,713,218	Duffie	May 14, 1929
2,598,806	Lauer	June 3, 1953

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