Dec. 25, 1934. W. F. MAIER 1,985,790

RIBBON PAD

Filed Jan. 20, 1932

Fig. 1.

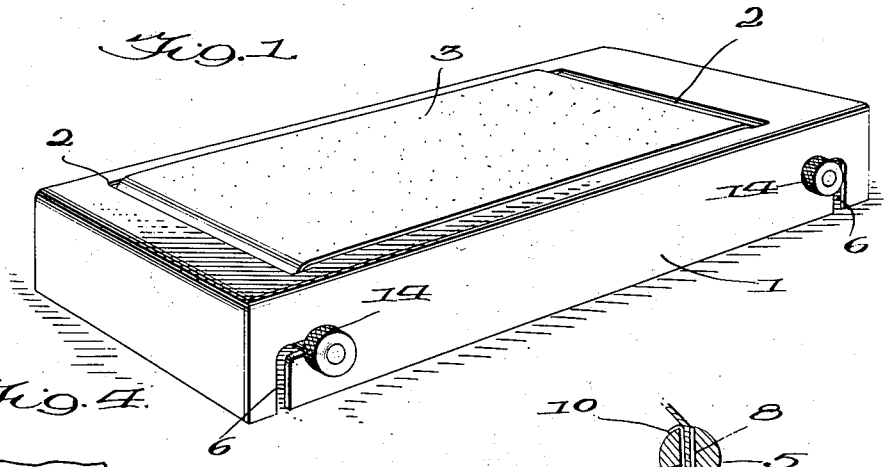


Fig. 4.

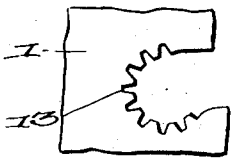


Fig. 2.

Fig. 7.

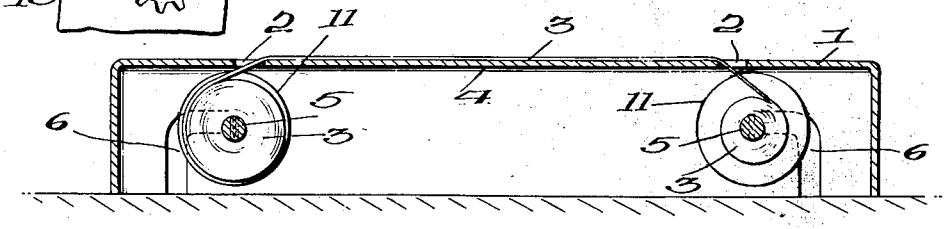
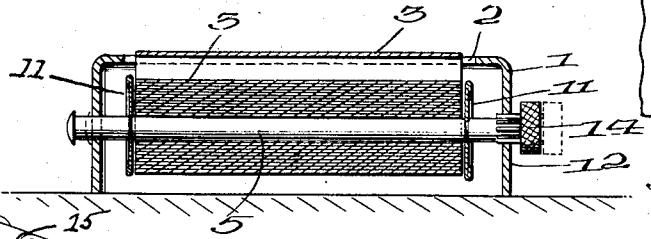


Fig. 3.



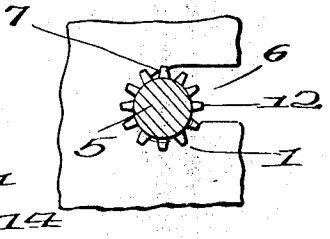


Fig. 5.

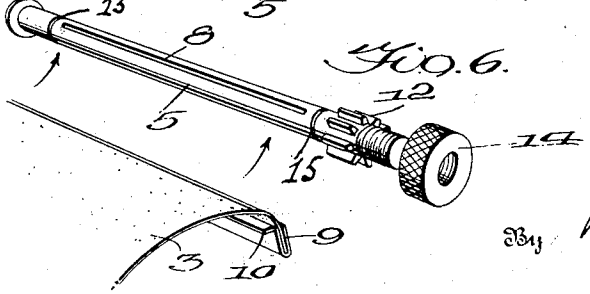


Fig. 6.

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UNITED STATES PATENT OFFICE

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RIBBON PAD

Wilburt F. Maier, Newark, N. J.

Application January 20, 1932, Serial No. 587,776

6 Claims. (Cl. 91—54.5)

My invention relates to an improvement in ribbon pads, and one object is to provide a pad adapted to take friction skin prints, such as finger, palm, toe and sole prints, and the like, and is particularly adapted for taking fine line impressions.

Another object is to provide a device which may be made at a minimum cost, and which will be effective in taking or making friction skin prints, and also for use as a stamp-pad for stamps made of rubber, metal, and etc.

It consists of an outside casing, spindles removably journaled therein for carrying the ribbon, and on which the latter may be wound and unwound by turning in either direction.

It further consists in means for holding the ribbon under suitable tension when a fresh surface is presented.

In the accompanying drawing:

Fig. 1 is a view in perspective of the invention;

Fig. 2 is a longitudinal vertical section therethrough;

Fig. 3 is a transverse section therethrough;

Fig. 4 is a detail side elevation showing the locking teeth;

Fig. 5 is a similar view partly in section;

Fig. 6 is a disassembled perspective view of a spindle and a portion of the ribbon; and

Fig. 7 is a sectional view through a spindle.

The numeral 1 represents the box or casing, which may be made of any suitable material; and may be stamped from a single sheet or blank bent or struck up into form, forming a top 4 and depending side flanges,

Across the top there are two slots indicated by the numeral 2, through which the ribbon 3 is threaded as it passes over the intervening surface of the top 4 of the box or casing as a backing and support therefore. The ribbon 3 is inked or otherwise chemically treated.

The ends of the ribbon are detachably secured to a spindle 5, and these spindles are inserted through the inverted L-shaped slots 6, in the side flanges, and finally into a recess 7 (see Fig. 5) in which they may turn as a bearing. The spindles have a transverse slot 8 extending part way or entirely therethrough, through which the end of the ribbon 3 is inserted, and the end of the ribbon preferably has a binding 9 of any suitable material, as shown in Fig. 6, which is inserted through the slot 8 as shown in Fig. 7, and is preferably provided with a flange 10 to prevent its being inserted too far through the slot.

The ribbon 3 is confined between the flanges 11, fixed to the spindles 5, which flanges are held in the grooves 15 formed circumferentially at or near the opposite ends of each spindle 5.

As a means of locking these spindles in order to hold the ribbon under a degree of tension, the spindles are provided with teeth 12 adapted to register with teeth 13 in the side of the box or casing when the spindle is pushed inwardly as shown in Fig. 3.

Each of these spindles have a turn piece 14 on the outer end, and, when it is desired to turn the spindles, they are pulled out as shown in dotted lines in Fig. 3, so that the teeth 12 and 13 are out of mesh, and then the spindles are turned as may be desired, after which the spindles are pushed back to a position shown in Fig. 3, thus providing a very simple means of locking them in place and holding the ribbon under the required tension.

As hereinbefore expressed, it is my intention to provide a simple and inexpensive device of the character described, composed of the smallest practicable number of parts, which may be easily assembled and easily operated.

If desired, the whole device may be mounted on a base or placed in an outer box or cover.

I claim:

1. A device of the character described, including a slotted box or casing in combination with spindles removably journaled within the box or casing, a flexible member having its ends detachably secured to the spindles, and adapted to be threaded through the slots in the box or casing, and to be wound on or off the spindles, and interfitting locking means for positively holding at least one of the spindles against turning in either direction.

2. A device of the character described including a box or casing having a slotted top and slotted sides, in combination with spindles removably journaled in the side slots, a flexible member detachably secured to the spindles, and adapted to pass through the slots formed in the top of the box or casing, and interfitting fixed means for positively locking the spindles against turning.

3. A device of the character described including a box or casing having a slotted top and slotted sides, the slots in the sides being in the form of an inverted L, in combination with spindles removably journaled in the L-shaped side slots, a flexible member detachably secured to the spindles, and adapted to pass through the slots formed in the top of the box or casing, and inter-

fitting fixed means for positively locking the spindles against turning.

4. A device of the character described, including a box or casing having slots, in combination with a flexible member extending through the slots, spindles upon which the flexible member is wound, said spindles being removably mounted within the box or casing, and means including a toothed portion and notches in the box or casing in position to register with each other to hold the spindles in fixed position and to hold the flexible member under tension.

5. A ribbon pad comprising a casing, spindles journaled in the casing, a flexible device or ribbon extending between the spindles, said casing having radial notches formed in the journal for at least one of the spindles, and teeth carried by said last-mentioned spindle in position to engage the radial notches to lock the spindle against turning.

6. A ribbon pad comprising a casing having a slotted top provided with downturned opposed sides, the opposed sides having inverted L-shaped notches therein extending upwardly from the lower edges thereof, spindles journaled in upper portions of said notches, and a ribbon connected with the spindles and extending through and over the slotted top.

WILBURT F. MAIER.