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A. E. GRANT

2,089,549

HAND STAMP

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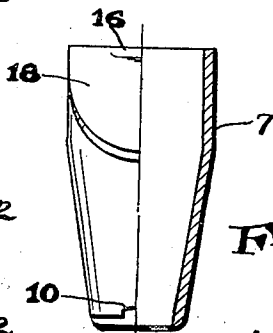
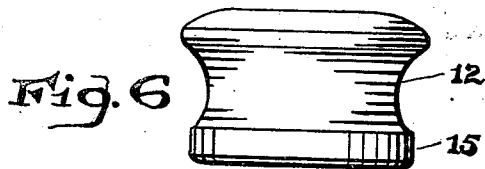
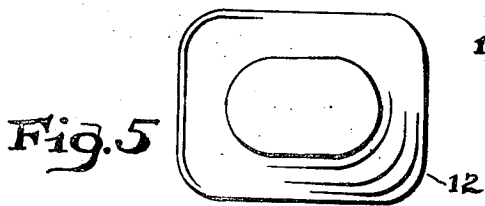
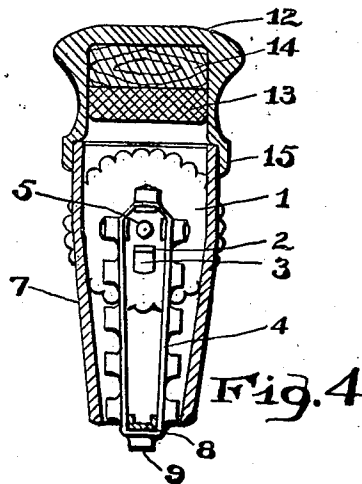
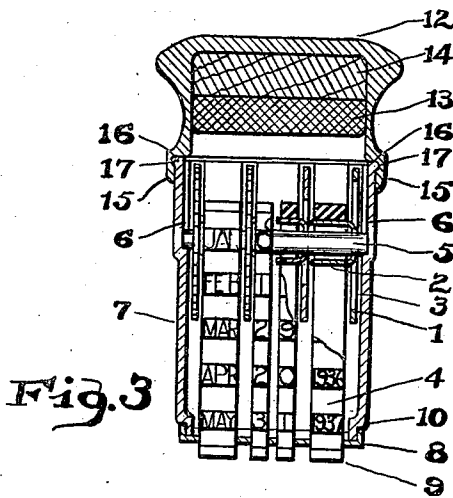
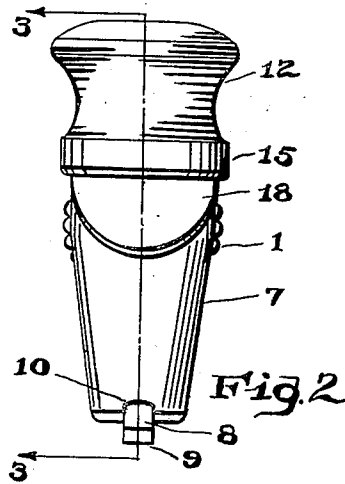
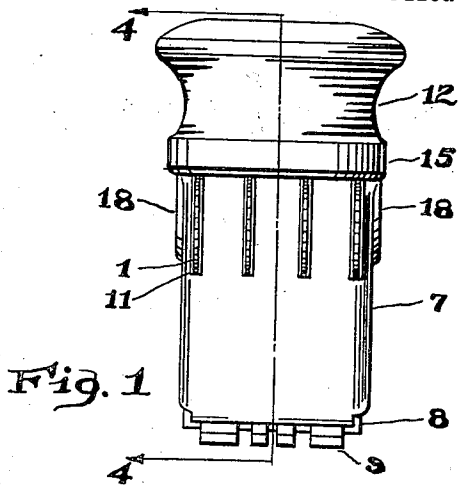


Fig. 7

ALBERT E. GRANT
INVENTOR.

BY John P. Wilson
ATTORNEY

UNITED STATES PATENT OFFICE

2,089,549

HAND STAMP

Albert E. Grant, New York, N. Y., assignor to
Henry S. Otto, Scarsdale, N. Y.

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2 Claims. (Cl. 101—111)

This invention relates to printing stamps, particularly to the adjustable variety in which a set of characters is mounted on an endless belt and is adjusted independently by a pulley over which the endless belt travels. The pulley is actuated by a disc or notched wheel, which protrudes through the housing and is accessible for manual adjustment. The stamp is provided with a series of such bands and wheels, to make a changeable line of as many printing characters as may be desired.

Most of the known stamps of today are not provided, however, with a substantially complete covering for these endless belts. The operator's hand may therefore become soiled from contact with some of the characters carrying excess ink from previous use. Another undesirable feature of the unprotected stamps is the rapid deterioration of rubber when exposed to sunlight and when coming in contact with dust and dirt; or when subjected to rough handling, to blows and to similar careless treatment.

It is one of the objects of my invention to provide an adjustable stamp housing of novel and useful construction incorporating several practical features. These features comprise rigidity and strength of the housing against abuses and rough handling; simplicity in the mounting and alignment of the endless belts in the housing; low manufacturing cost of the stamp itself; and novel provisions to maintain an inkpad at the top of the housing.

Another object of my invention is to provide a novel pulley arrangement.

Other objects will be referred to in the following specification and especially in the accompanying claims.

In the drawing:

Fig. 1 is a front elevation of an adjustable stamp incorporating my invention.

Fig. 2 is a side elevation of the same.

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

Fig. 4 is a sectional view taken on the line 4—4 of Fig. 1.

Fig. 5 is a plan view of the removable cap.

Fig. 6 is a front elevation of the cap.

Fig. 7 is a side elevation of the stamp housing partly in section.

In referring to the essential details of the drawing, the discs 1, having at their circumferences suitable indentations for gripping purposes, are provided with four axially disposed flanges 2, pressed out of sheet metal of which the discs 1 are made, and wherein 3 is an outline or the con-

tour, of the blank space left in the metal after each flange has been pressed out.

The flanges 2, shown extending at right angles to the surface of disc 1, thus forming a pulley which is integral with the disc, and which provides a means to positively actuate the endless character belt 4 of the stamp to prevent slipping. In thus providing a pulley of the character described, the cost of manufacture is materially reduced. It eliminates an extra cylinder, usually employed in this type of stamp, and does away with providing means to connect the pulley, or cylinder, to the actuating disc 1.

The actuating discs are freely rotated on a shaft, or straight cylinder 5, held at the bottom of two opposing grooves 6, which are located on the inner surfaces of the upper part of the housing shell 7. These grooves extend to the upper surface of the housing walls, so as to freely permit entry of the shaft 5 with the assembled discs and the endless belts 4.

A metal, channel shaped print bar 8 extends along the lower end of the housing 7 and supports the raised characters 9 on the endless belts 4.

The ends of the print bar 8 are bent at an angle to it so as to engage notches 10 in the lower ends of the housing walls.

The large or wide side walls of the upper part of the housing are provided with suitable slots or openings 11, of a width to slightly clear the discs 1 protruding through the outside of the housing. These slots also serve the purpose of supporting the discs in a lateral position, because the endless belts have a tendency to tilt the discs on the shaft 5.

On top of the housing 7 is mounted a removable cap 12 with an ink pad 13 fitted inside with a block of wood 14 between the pad and the bottom of the cap, the block being used to raise the pad and place it closer to the opening edge of the cap for convenience in inking the printing characters or type 9.

Cap 12 is provided with a flanged rim 15, to snap over the ridges 16, which protrude toward the outside from the upper edges of the housing 7. These ridges 16 enter grooves or indentations 17 located in the flanged rim 15 or cap 12. This arrangement will prevent the cap from coming free of the housing, yet at the same time will permit an easy removal by means of a slight pressure being exerted on the reinforced, half round sections 18 located on the narrow side walls of the housing 7. This compression is made possible because of the slots 11.

The advantage of providing an ink pad within

the cap is quite obvious, in that such an arrangement makes the stamp outfit complete and self-contained. Another advantage is that the ink pad is entirely sealed, when mounted, preventing it from becoming soiled.

The cap as well as the housing are preferably molded. In thus providing a one-piece shell or housing, as well as a serviceable cap, both of which require no machining, but are immediately ready for assembling, it is obvious that the cost of making this enclosed adjustable stamp will be quite low; and in furthermore providing a disc-pulley device of the type described; as well as disclosing an extremely simple assembly arrangement of the various parts, it is quite evident that the adjustable stamp shown comprises a practical and useful invention.

My invention may be, of course, modified in its practical embodiments within the scope of its substance as set forth in the appended claims.

I claim as my invention:

1. A hand stamp comprising a one-piece tubular housing of an approximately rectangular cross-section, the end walls being wider at one end than at the other, and having grooves on the inside extending for a short distance inwardly

from the wide ends, a shaft supported in the grooves, a plurality of discs on the shaft, pulleys extending from the discs, the sides of the housing being provided with slots for the discs, belts with raised characters supported on the pulleys, a bar supported on the narrow ends of the end walls and supporting the belts, the discs being adapted to be manually turned for moving the belts and placing different characters in the operative positions on the bar, and a cap removably fitted over the wide end of the housing.

2. A hand stamp comprising a tubular housing, the end walls of the housing on top being wider than at the bottom, the opposite wall being provided at the top with outwardly formed recesses extending to the edges of the walls, a shaft supported by its ends in the recesses and abutting the bottoms thereof, a plurality of discs rotatively mounted on the shaft, the sides of the housing having slots for the discs, pulleys on the discs, a bar supported at the bottom of the housing, belts with raised characters supported on the pulleys and on the bar, and a cap removably fitted over the upper end of the housing.

ALBERT E. GRANT.