June 5, 1928. 1,672,072

B. D. CHAMBERLIN

PRINTING STAMP

Filed Nov. 20, 1925

FIG. 1.

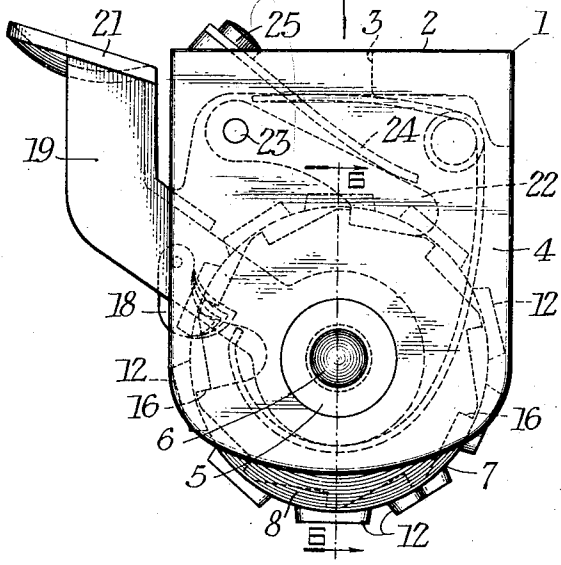


FIG. 2.

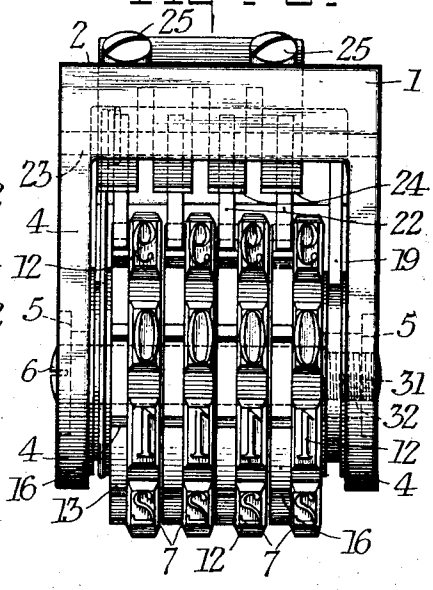


FIG. 3.

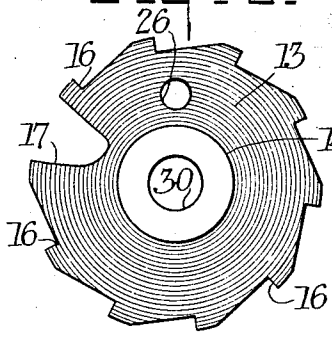


FIG. 4.

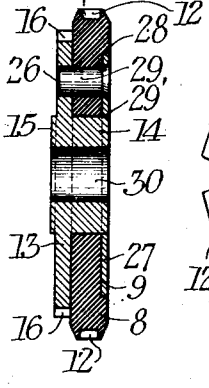


FIG. 5.

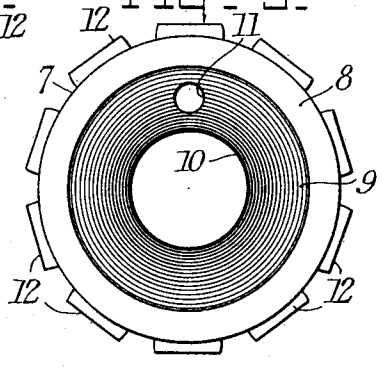


FIG. 6.

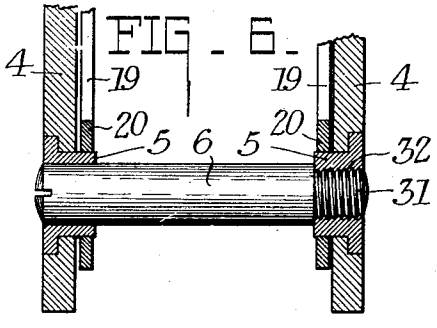
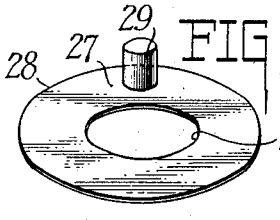


FIG. 7.



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UNITED STATES PATENT OFFICE.

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PRINTING STAMP.

Application filed November 20, 1925. Serial No. 70,283.

This invention relates to stamps and particularly to numbering stamps. One object of my invention is to provide a stamp which is simple and cheap to make. Another object is to provide a stamp in which the type carrying members may be readily replaced by the user. Another object is to provide a novel stamp disc mount which supports the resilient type carrying members between rigid members which may be assembled and disassembled easily. Another object is to provide type carrying members which are carried upon a single removable shaft. Another object is to provide a type changing device permanently mounted in the stamp shell. Another object is to provide a type disc mount in which the proper relation between the type carrying disc and the indexing wheels are made certain, and other objects will appear hereinafter from the following specification, the novel features being pointed out in the claims at the end thereof.

Certain features of this stamp are the same as parts of the printing stamp shown in U. S. Patent No. 1,518,415, Speidel, et al., issued December 9, 1924.

Coming now to the drawings, wherein like reference characters denote like parts throughout:

Fig. 1 is a side elevation of a stamp constructed in accordance with, and embodying one form of my invention;

Fig. 2 is a rear elevation of the stamp shown in Fig. 1;

Fig. 3 is a side elevation of the indexing member;

Fig 4 is a cross section through a type carrying member assembled to the indexing member;

Fig. 5 is a side elevation of a type carrying member;

Fig. 6 is a section on line 6—6 of Fig. 1; and

Fig. 7 is a perspective view of the type supporting washer.

In the illustrated embodiment of my invention, the stamp may consist of a shell or casing 1 which is provided with a top 2 in which there is an opening 3 and downwardly extending arms 4 which are provided with bearings 5 for a shaft 6 upon which the type carrying discs, designated generally as 7, are mounted.

In accordance with my invention, the type carrying discs, here shown as numbering discs, may consist of an annular member 8 having a recessed side 9, a central aperture 10 and an indexing aperture 11. Around the periphery of this member are the type members 12. This part is preferably made of resilient material such as rubber.

In order to form a stiff support for member 8, there is provided an indexing member 13 having a hub 14 extending to one side of the indexing wheel and a short hub 15 extending to the opposite side of the disc. The teeth 16 and the cut-out 17 are engaged by the spring pressed yoke 18 which may be carried by a lever 19 having hubs 20 which are preferably carried by bearings 5, as best shown in Fig. 6. An operating handle 21 may be actuated to change the type carrying discs. This changing mechanism is similar to that shown in the patent above mentioned. A series of latches 22 (only one being shown) may be mounted upon a shaft 23 and may be pressed by springs 24 attached by screws 25 to the top 2 of the casing into engagement with the teeth 16.

The indexing wheel 13 is provided with an aperture 26. A washer 27, having an outside diameter 28 adapted to fit into the recess 9 of the type disc and having an inside diameter 29′ adapted to fit on the end of the hub 14, is provided with a pin 29. In assembling the type disc 7, a resilient member 8 is placed on the washer with the pin 29 extending through aperture 11 and these two members are then slid on the hub 14. The pin 29 passes into aperture 26 of the indexing wheel. This causes the proper type number to lie in the desired relation with the cut-out 17. The pin 29 merely lies in aperture 26 and is not fastened in this position.

A series of the type members, assembled as above described, may be held between the arms 4 of the stamp shell 1, and a shaft 6 may be then slid through bearing 5 and through the central openings 30 in the hubs 14. The threaded end 31 of shaft 6 may then be screwed into the tapped opening 32 and the stamp is assembled ready for use. Thus parts of the stamp which are used for operating the stamp disc are mounted to remain permanently on the shell 1, and the perishable parts may be removed without disturbing them.

As will be seen from Fig. 6, when shaft 6 is removed to renew the type-carrying members 8, the arms 19 remain with the shell, since they are carried by the bearings 5. Thus only the type discs 7 may be removed from the stamp shell when shaft 6 is withdrawn.

The indexing member 13 and the washer 27 are used repeatedly, the resilient type carrying member 8 being the only part discarded when worn. These may be made inexpensively so that a stamp made in accordance with my invention may be used for a long time.

I have not shown a handle or mount for my stamp in the drawings. This may be of any desired kind. This stamp is, however, particularly useful in connection with the mount shown in my copending patent application, Serial No. 756,348, for numbering stamp for photographic printing machine, filed December 16, 1924.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In a printing stamp, the combination with a casing, of a shaft supported by the casing, a type carrying disc of annular form, an annular indexing member having a hub thereon, adapted to receive the type carrying disc and means for positioning the disc relatively to the type indexing member.

2. In a printing stamp, the combination with a casing, of a shaft supported by the casing, a type carrying disc of annular form having a perforation therein, annular indexing members adapted to support the type disc, said annular members being adapted to turn on the shaft, an annular plate adapted to engage a side of the type carrying member, and a pin adapted to locate the type carrying member on the indexing member.

3. A type disc for printing stamps including a resilient type carrying member, a support therefor including a pair of plates, and registering means for positioning the disc in a predetermined relation to a supporting plate.

4. A type disc for printing stamps including a rubber type carrying member, an annular rigid support for the rubber member, and a registering device for locating the rubber member on the rigid support.

5. A type disc for a printing stamp including a resilient annular type carrying member having a perforation therein, a rigid annular support for the type carrying member including a hub and a relatively rigid flange thereon having an aperture therein and means for registering the type carrying member on the disc including a washer adapted to lie adjacent the type carrying member, said washer carrying a pin adapted to pass through the two apertures.

6. A type disc for a printing stamp including a perforated relatively soft type carrying element having a recess in one side, a relatively stiff annular member having a pin therein, and a perforated indexing wheel the type carrying element being adapted to be positioned on the indexing wheel by means of the pin registering with the perforation in the indexing wheel.

7. In a printing stamp, the combination with a casing of a shaft supported therein, means for connecting and disconnecting the shaft and casing, a plurality of resilient type carrying members, a plurality of relatively stiff type supporting members, one member being adapted to be mounted on the shaft and to carry the resilient member, and the other member being adapted to engage a wall of the resilient member whereby the latter may be held between the two supporting members.

8. In a printing stamp, the combination with a casing, of a shaft supported therein, supporting member adapted to be mounted on the shaft, a resilient member adapted to be carried by the supporting member, and a locating member adapted to contact with the resilient member and to be mounted on the supporting member whereby these parts may be assembled as a unit on the shaft.

9. In a printing stamp, the combination with a casing, of a shaft supported therein, means for disconnecting and connecting the shaft and casing, a plurality of annular type disks, a plurality of annular supporting members for carrying the disks, a plurality of locating members cooperating with the supporting members for locating the type disks thereon, said last three mentioned members being adapted to be carried on the shaft as a unit.

10. In a printing stamp, the combination with a casing, of a shaft supported therein, means for connecting and disconnecting the shaft and casing, a plurality of annular type disks, a plurality of annular supporting and locating members, one set of members being adapted to support the other two sets of members and to be supported on the shaft, whereby a plurality of sets of type disks, supporting and locating members may be located about the shaft.

11. A type disc for a printing stamp including a relatively soft disc having an opening therein, a pair of relatively rigid annular members adapted to embrace the sides of the disc, a registering pin on one rigid member adapted to pass through an aperture in the soft type carrying disc, one rigid member being adapted to carry the other two members.

Signed at Rochester, New York this 17th day of November, 1925.

BENJAMIN D. CHAMBERLIN.