C. S. ELLIS.

SELF INKING DATING STAMP.

APPLICATION FILED JAN. 29, 1917.

1,226,648. Patented May 22, 1917.

Fig. 1

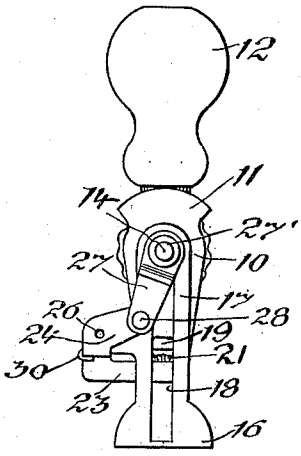


Fig. 2.

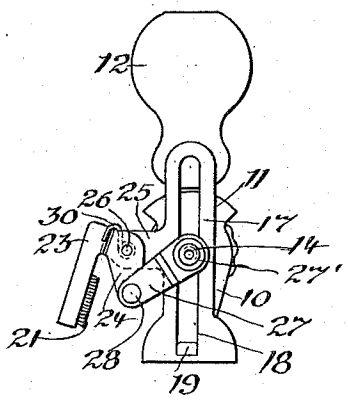


Fig. 6.

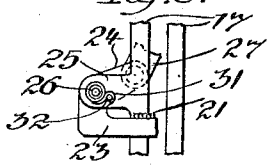


Fig. 3.

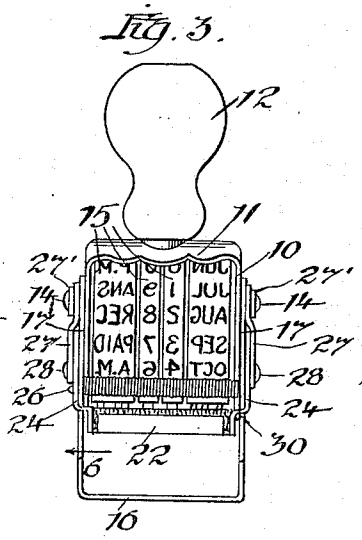


Fig. 4.

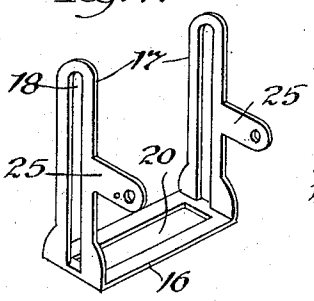
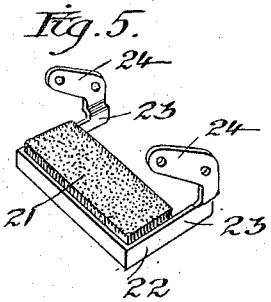


Fig. 5.



Witnesses:
Frank S. Blanchard
Harry S. Gaither

Inventor:
Charles S. Ellis
By William A. Hall
Atty.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CHARLES S. ELLIS, OF CHICAGO, ILLINOIS.

SELF-INKING DATING-STAMP.

1,226,648. Specification of Letters Patent. Patented May 22, 1917.

Continuation of application Serial No. 79,472, filed February 19, 1916. This application filed January 29, 1917. Serial No. 145,095.

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 Self-Inking Dating-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 self inking dating stamp, and is a continuation of my former application, Serial No. 79,472.

Among the objects of the invention is to provide improvements in the nature of an attachment to an ordinary dating stamp, it comprising, in general terms, an inking pad carrier which normally holds the inking pad pressed against the type at the printing line, and which is connected to fixed and movable parts of the stamp frame in such manner when the stamp is depressed in the printing operation the pad carrier is swung laterally away from the type and when the parts are restored to non-printing position the pad frame is swung backwardly into position to press the pad against the type.

Another object of the invention is to provide a construction and arrangement in a stamp of this character to produce an accurate guiding connection between the relatively fixed and movable parts of the structure so as to maintain accurate alinement of said parts and a square and clear imprint of the type on the printed surface, and to produce said guiding function with an exceedingly compact and rigid structure.

A further object of the invention is to simplify and improve self inking stamps, and the invention consists in the matters hereinafter set forth and more particularly pointed out in the appended claims.

In the drawings:—

Figure 1 is a side elevation of a stamp embodying my invention, in its non-printing position.

Fig. 2 is a similar view showing the position which the parts assume in the printing position of the stamp.

Fig. 3 is a rear elevation of the stamp.

Fig. 4 is a perspective view of the stamp base and its guide arms.

Fig. 5 is a perspective view of the inking pad holder or the frame.

Fig. 6 is a detail section on the line designated by 6— on Fig. 3.

The dating stamp is of a well known type, it embracing a U-shaped frame composed of side members 10, 10 and a top connecting member 11 to which latter is attached the usual hand piece 12. The type are carried on flexible type bands which are trained about suitable carrying wheels which are mounted on a shaft 14 and a cross bar extending between and fixed to the lower ends of the side members of the frame. Said shaft 14 extends between and is fixed to the side members 10 of the stamp frame. The said type band wheels, the base bar and the bands are constructed and arranged in a well known manner, and need not be herein further shown or described in order to understand the application of my improvements to the stamp.

16 designates a base member which is located below the stamp proper and normally constitutes the support for the stamp. It is provided at its ends with upstanding arms 17, which latter are formed with longitudinal slots 18 through which play the ends of the band wheel shaft 14. Said shaft 14 constitutes a guide for the upper ends of the arms 17. The side members 10 of the stamp frame are provided at their lower ends and on their outer faces with guide lugs 19 which also engage and closely fit said guide slots 18, to thereby constitute, with the shaft 14, two-point guides between the base frame and stamp to maintain the parts in accurate alinement. The base 16 is provided with a longitudinal slot 20 through which the types of the type bands 15 are projected for printing engagement with a surface therebelow when the stamp is depressed, as shown in Fig. 2.

21 designates an inking pad which is carried by a frame 22. The said pad frame is provided at one of its sides and at the ends thereof with lateral fixed arms 23 which are formed with upwardly and inwardly curved terminals 24. The guide arms 17 of the base frame are provided on the side of the stamp toward which the arms 23 project with laterally extending lugs 25. The said lugs 25 overlap the inwardly curved terminals 24 of the pad frame arms 23 near the bases of their curved terminals, and said terminals

are off-set outwardly to fit flat against the outer faces of the lugs 25, as most clearly shown in Fig. 3. The said lugs and arms are pivotally connected by means of a shaft 26 which extends transversely across the frame and in rear thereof. 27, 27 designate links, one at each side of the stamp, which pivotally connect the ends of the type band wheel shaft 14 to the inwardly curved terminals 24 of the arms 23. As herein shown, the upper ends of said links are apertured to pass over the ends of the shaft 14 and are held thereon by nuts or washers 27′, and the lower ends of said links are off-set and overlap and bear against the outer faces of the curved extensions of the arms 23, and said parts are provided with registering apertures to receive pivot pins 28.

A spring 29 encircles the shaft 26, and one end is formed with a hooked portion 30 to engage over the adjacent arm 23 and the other end of said spring is formed with a hooked extension 31 to engage a stud 32 carried by the adjacent fixed lug 25.

With the construction described when downward pressure is exerted on the hand piece the pivotal connection of the links 27 with the pad frame arms causes said pad frame to swing laterally away from the stamp about the rod 26 as a pivot, as shown in Fig. 2, so that the type are pressed to the surface to be printed free from obstruction. Moreover, by reason of the connection described, the pad frame is swung well away from the stamp frame so as to permit ready access to the pad to apply ink thereto. When pressure is released the spring 29 acts to swing the pad frame inwardly and upwardly to engage the pad with the type and also acts through the links 27 to restore the stamp to its uppermost position.

It will be noted that the base frame guide arms 17 lie closely against the sides of the stamp frame and that there is an extending guiding contact between the inner faces of said arms and the outer faces of the frame, so that the base frame and stamp are maintained in accurate alinements to insure square presentation of the type to the surface to be printed and, therefore, a clear imprint. Such alinement is furthermore insured in part by the two-point guiding contact of each of the base frame arms with the stamp afforded by the extension of the shaft 14 and the lugs 19 into the guide slots 18. Said shaft 14 and its connection with the links 27 serve to prevent the free ends of the arms 17 from spreading and to maintain the guiding engagement of the inner faces of said arms with the outer faces of the said members of the stamp frame.

It will be understood that the structural details shown are capable of some variation within the scope of the invention and that the invention is not limited to said details except as hereinafter made the subject of specific claims.

I claim as my invention:—

1. The combination with a hand stamp comprising a frame composed of top and side members, its type carrying means, and a handle fixed to said top member, of a self-inking attachment comprising a U-shaped frame consisting of an open base and upstanding free-ended arms, the latter arranged outside of and having guiding contact at their inner side faces with the outer side faces of the side members of the stamp frame; interlocking connections between the side members of the stamp and the free ends of said arms to hold said faces in guiding engagement; a spring-held swinging inking pad carrier pivoted to said arms, and connections between said carrier and stamp frame to swing the carrier away from the stamp when the stamp is depressed.

2. The combination with a hand stamp of that kind which is normally inked by hand comprising a frame, its type carrying members and a handle, of a self-inking attachment comprising a U-shaped frame consisting of an open base and upstanding arms, the latter free at their upper ends and arranged outside of and having guiding contact at their inner faces with the sides of the outer faces of the stamp frame throughout the principal height of said frame, means on the stamp and frame to hold said faces in guiding engagement, a spring-held swinging inking pad carrier pivoted to said arms, and link connections, exterior to said arms, to swing the carrier away from the stamp when the stamp is depressed.

3. A self-inking dating stamp comprising a stamp frame and its type-carrying members, an outer guide and an inking pad carrier frame provided with upstanding free-ended arms which are arranged exterior to and have guiding contact at their inner faces with the outer faces of the frame members by means permitting the stamp to be depressed relatively to the arms, said arms terminating below the top of said stamp frame; a swinging, spring-held inking pad carrier arranged at one side of the stamp and provided with laterally directed arms which are pivotally connected to said guide arms, and links arranged at the outer sides of said guide arms and pivotally connected to the terminals of said carrier arms beyond said former pivots and also pivotally connected to the stamp frame.

4. A self-inking dating stamp comprising a stamp frame and its type carrying members, the latter embracing a series of band wheels and a shaft therefor, the ends of which extend beyond the stamp frame, an outer inking pad carrier and guide frame provided with upstanding slotted guide arms which fit at their inner faces flat against the

outer faces of the stamp frame, the ends of the shaft extending into the slots of the arms whereby the stamp is permitted to be depressed into said carrier frame, an inking pad carrier provided with arms which are arranged exterior to and are pivoted to said guide arms and provided beyond their pivots with inwardly directed terminals, means to normally press the carrier toward the type, and connections exterior to said arms between said terminals and the ends of said band wheel shaft.

5. A self-inking dating stamp comprising a stamp frame and its type carrying members, an outer inking pad carrier and guide frame provided with upstanding arms which fit at their inner faces flat against the outer faces of and are guidingly connected to the stamp frame by means permitting the stamp to be depressed relatively to the base member, a swinging inking pad carrier provided with laterally extending arms which exteriorly overlap the outer faces of said arms, a shaft extending through pivot openings in the overlapping parts of said arms, a spring encircling said shaft and connected at one of its ends to said carrier and at its other end to the outer frame, and connections between the carrier and stamp frame arranged exterior to the guide arms to swing the latter laterally away from the stamp upon the depression of the latter against the action of said spring.

6. A self-inking hand stamp comprising a complete normally hand inked stamp having a hand piece and provided with printing characters adapted to be composed at a printing line, an outer guide frame comprising a lower transverse slotted die plate and upstanding arms which have contact with the sides of the stamp frame, said arms being provided with slots to engage guides on the lower end of the stamp, means on the upper part of the stamp for engaging the upper ends of the arms to hold said arms from springing outwardly, a spring controlled pad carrier pivoted to said outer frame and connections between said carrier and the stamp to actuate said carrier.

In witness whereof I claim the foregoing as my invention, I hereunto append my signature in the presence of two witnesses at Chicago, Illinois, this 27th day of January, 1917.

CHARLES S. ELLIS.

Witnesses:
WILLIAM L. HULL,
C. O. NORDENSSON.

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