July 31, 1923. 1,463,340

M. SHERAS

BAND DATING STAMP

Filed Aug. 28, 1922

Fig. 1

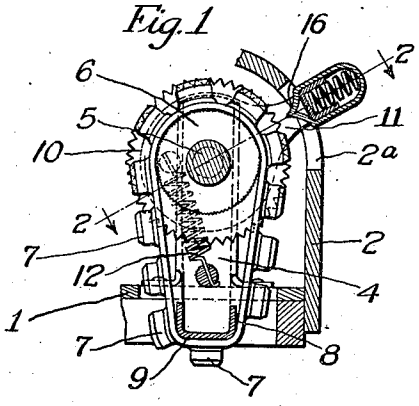


Fig. 2

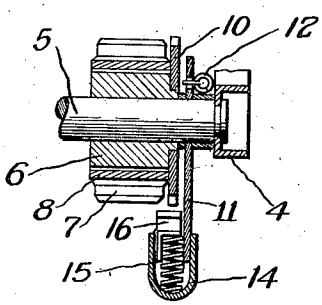


Fig. 3

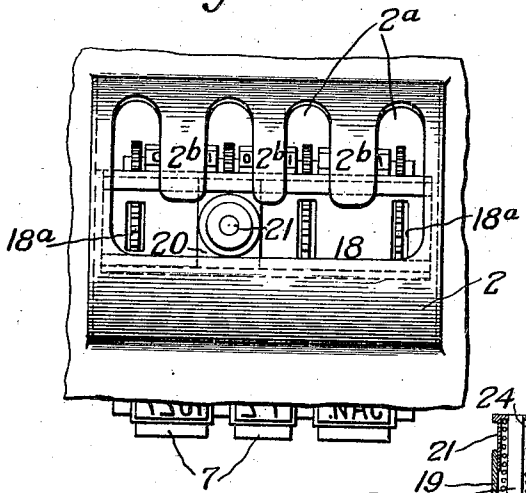


Fig. 4

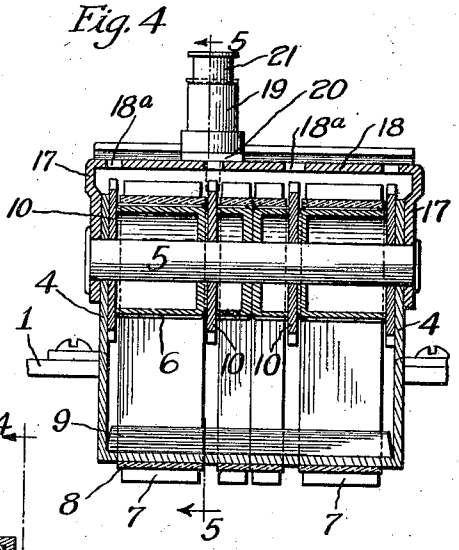
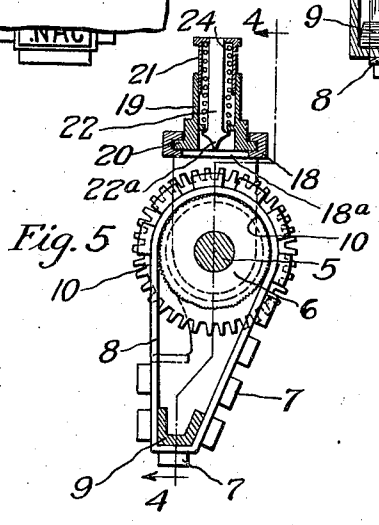


Fig. 5



Witness:-
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Patented July 31, 1923. 1,463,340

UNITED STATES PATENT OFFICE.

MORRIS SHERAS, OF CHICAGO, ILLINOIS, ASSIGNOR TO A. D. JOSLIN MANUFACTURING CO., OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

BAND DATING STAMP.

Application filed August 28, 1922. Serial No. 584,671.

To all whom it may concern:

Be it known that I, MORRIS SHERAS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Band Dating Stamps, of which the following is a specification.

This invention relates to hand stamps, particularly those of the type which are characterized by the employment of a flexible band carrying the type characters, the band being adjustable so as to present the desired characters at the printing point.

This application is a continuation in part of my co-pending application, Serial No. 184,398, filed August 4, 1917, for improvements in time stamps, in which generic features of the present invention have been disclosed.

The general purpose of the present invention is the provision of a new construction for a stamp of the sort described whereby accurate adjustment of the type to and upon the printing line may be effected without requiring direct application of the fingers to the type.

Another object of the invention is the provision of such improvements whereby all of the stamp mechanism may be enclosed in a suitable housing and the type properly adjusted from the exterior of the housing.

A further object is the provision of a device of the sort described which, by virtue of the present improvements, may be embodied in a structure which may be manufactured at low cost, which is simple in construction and positive in operation, so that its accuracy and operability will not be affected by prolonged use.

Other and further objects of the invention will be pointed out hereinafter, indicated in the appended claims or obvious upon an understanding of the present disclosure.

In the drawing forming a part of this specification I have disclosed two forms in which the invention may be embodied, the first having formed a part of the subject matter of my co-pending application above referred to, and the modified form conforming to certain of the generic features which characterize the original form. It is to be understood however that the presentation of these particular embodiments in this application is for the purpose of illustration merely, as the invention is susceptible of further modification and adaptation without sacrifice of its essential features; hence the fact that this disclosure is predicated upon certain particular structures is not to be given the effect of limiting in any fashion, short of its true and most comprehensive scope in the art, the invention which I purport to secure by Letters Patent.

In this drawing it will be understood that

Fig. 1 is a fragmentary detail in the nature of a transverse sectional elevation of a portion of a stamp wherein my invention is embodied;

Fig. 2 is another fragmentary detail in the nature of a section substantially on line 2—2 of Fig. 1;

Fig. 3 is a detail in the nature of a fragmentary side elevation of a modified embodiment of the invention, showing a portion of the stamp casing;

Fig. 4 is a longitudinal sectional elevation of said modified stamp construction; and

Fig. 5 is a transverse sectional elevation substantially on line 5—5 of Fig. 4.

In the employment of stamps such as those utilized for dating and the like, wherein it is necessary or desirable to change the printing matter from time to time, difficulty frequently has been experienced in providing for the setting or adjustment of the type positively and with accuracy and at the same time protecting the hands of the operator from contact with the type, which under ordinary usage carries more or less ink and is likely to soil the fingers. Another important consideration is the housing of the type so that articles into contact with which the stamp may be brought inadvertently may not be soiled by the ink. Difficulties in accomplishing these objects have been presented by the fact that due to the nature of the ink commonly employed with hand stamps the operable parts are likely to become more or less gummed up and difficult of adjustment. The present invention overcomes many of the difficulties inherent in former constructions, and accomplishes the objects stated above by the provision, in conjunction with the type rollers, of wheels for actuating them and levers of length adequate to give the desired power, which levers are susceptible of operative connection with the wheels so that by swinging of the levers the wheels may be actuated to trans-

mit the bands to a desired extent in either direction. The levers being operable at a distance from the wheels and the type, the latter may be housed in a suitable casing through which the engaging portions of the levers project, by virtue of which arrangement the type may be suitably adjusted without bringing the fingers into contact with them.

The invention will be understood more definitely by reference to the accompanying drawing in detail, from which it will be understood that the numeral 1 designates a portion of a frame upon which may be mounted a housing, a fragmentary portion of which is indicated at 2. As a part of one or the other of these members or suitably mounted upon them are provided the shaft supports 4 in which the type shaft 5 is mounted, preferably being retained against rotation. Upon this shaft are rotatably mounted the type drums 6, which afford adjustable supports for type 7 maintained on their peripheries as by means of the type bands 8. Also supported on the frame is a suitable support 9 arranged for cooperation with the type at the printing point to sustain it in proper position. Of course as many of the type drums 6 may be employed as may be desired, and the type associated with the several drums formed to print the desired legends. Connected with each of the type drums is a type setting wheel 10, the same being mounted concentrically therewith and being equipped at its periphery to facilitate its engagement by means effective to rotate it and the drum to effect adjustment of the type. In association with each of the type setting wheels 10 a lever 11 is pivoted on the shaft 5, which preferably is held under the restraint of a spring 12 so as to maintain its longer or manipulating arm in an elevated position. The casing 2 is provided with slots 2^a through which the manipulating arms 11, extend, so that they project on the exterior of the casing, where they carry manipulative wheel-engaging members. Each wheel engaging member comprises a plunger 14 which is slidably mounted on the lever 11, and restrained at its outer position by a spring 15. At its inner end the wheel-engaging member is formed to provide a nose 16 adapted to engage the periphery of the type adjusting wheel separate and apart from the type. In the form illustrated in Figs. 1 and 2 the construction just described is afforded by extensions of the lever 11 which are folded to afford a tubular member for reception of the spring 15 and a guide upon which a tubular wheel engaging member is slidably mounted.

In the operation of the device to set the type, the manipulative member 14 is pressed inwardly until its nose engages the type setting wheel, whereupon the lever 11 is swung to the extent necessary to move the desired type toward the printing point. Upon release of the manipulative member 14 it is automatically disengaged from the type wheel, and the lever 11 restored to the limit of movement permitted by the slot 2^a. The lever may be actuated as many times as may be necessary to move the desired type to the intended position and, in event of overthrow, the lever 11 may be actuated by the hand in a reverse direction while the manipulative member 14 is in engagement with the wheel, so that the type can be backed into the desired alignment. In this fashion an augmented pressure may be exerted upon the drum 6 so that the actual movement of the type is accomplished with extreme ease, and without any soiling of the fingers from contact with the inked type.

In the embodiment illustrated in Figs. 3, 4 and 5 I have modified the structure above described to the extent of providing a single manipulative member for operating all of the type drums. In these figures the elements which the structure has in common with that above described are designated by like reference characters. In this construction it will be observed that in place of the separate levers 11, I have provided a yoke member having the side arms 17 pivotally mounted on the shaft 5 and connected by a channel portion 18 extending parallel to the shaft 5. This channel portion is provided with transverse slots 18^a arranged in alignment with the several type adjusting wheels 10, and also affords a retaining mounting for a shiftable manipulative member comprised of a barrel portion 19 having a rectangular flanged base portion 20 slidably fitted in the channel-ways of member 18 in such fashion that the barrel is adjustable longitudinally of the latter. In the barrel portion 19 is slidably mounted a plunger 21 which carries the wheel engaging member 22, the same normally being held retracted within the barrel 19 by a spring 24, so that its nose 22^a is clear of the slot 18^a. In the casing 2 the slots 2^a are connected at one end by a transverse slot so that intervening guide members 2^b are provided. The dimensions of the slots 2^a and connecting slot are such that the barrel 19 may be shifted in them. Normally the yoke member 18 will occupy the position illustrated in Fig. 3. When it is desired to adjust the type, the manipulative member is shifted longitudinally on the member 18, as permitted by the transverse slot portion, until it is in alignment with the slot 2^a associated with the type drum which it is intended to operate. The manipulative member is then moved longitudinally of the slot 2^a, as permitted by the swinging of the yoke member on the shaft 5, and then the plunger 21 is pressed inwardly so that the wheel engag-

ing portion will be projected through aligned slot 18ª and into engagement with the type adjusting wheel 10 thereunder. Then, by moving the manipulative member in the slot 2ª, the necessary movement will be transmitted to the wheel 10 to rotate it, by which movement the type is shifted with respect to the printing point. With the manipulative member thus engaged with the type setting wheel, movement of the type either backwardly or forwardly may be effected so that an accurate alignment may be made.

While I have characterized the invention as pertaining to a band dater, because of the nature of the illustrative disclosure upon which this application is based, it is to be understood that it is not limited either to an arrangement wherein the type is carried on a band, or in which the type are of the character to print dates, as the type, which may be of any character desired, may be mounted directly upon the drums 6, on such radius that their printing faces will extend beyond the margins of the type setting wheels, or the embodiment may be modified in other details without departing from the scope of the appended claims.

I claim:

1. In a stamp, in combination, revoluble type drums, adjusting wheels connected thereto, an adjusting lever movably associated with the wheels, and a manipulative member supported on the lever and movable to engage a wheel to transmit movement from the lever to the type drum, said lever being operable in opposite directions to advance or retract type with respect to the printing point.

2. In a stamp, in combination, a rotary type drum, type arranged to be positioned by rotation thereof, an adjusting wheel associated with the drum, a lever associated with the wheel, and a manipulative member movably mounted on the lever for engagement with the wheel, said lever being operable in opposite directions to rotate the drum forward and back.

3. In a stamp, in combination, a casing, a type drum rotatably mounted therein, type movable to and from printing position by rotation of said drum, an adjusting wheel connected to the drum, a setting lever associated with the wheel and extending through the casing for operation exteriorly thereof, and a manipulative member operable on the lever to engage the wheel, said lever and manipulative member being operable to rotate the drum in opposite directions.

4. In a stamp, in combination, a plurality of type drums, type operable thereby, adjusting wheels associated with the drums, an oscillatory member associated with the wheels, and a manipulative member adjustably mounted on the oscillatory member for engagement with the wheels selectively.

5. In a stamp, in combination, a plurality of type drums, type adjustable by rotation of said drums, adjusting wheels associated with the drums, an adjusting member movably associated with the wheels, and a manipulative member adjustably carried on the adjusting member, said manipulative member being movable into cooperation with the wheels selectively, and the adjusting member being operable to rotate the wheels in either direction.

6. In a stamp, in combination, a casing, type drums rotatably mounted therein, type adjustable with said drums, adjusting wheels associated with the drums, a movable adjusting member associated with the wheels within the casing, a manipulative member mounted on said adjusting member and engageable exteriorly of the casing, said manipulative member being engageable with the wheels selectively to accomplish adjustment of the type upon movement of the adjusting member.

7. In a stamp, in combination, a plurality of rotary type drums, type arranged to be positioned in printing position by rotation of said drums, an adjusting wheel associated with each drum, a swinging yoke pivoted concentrically with the drums and extending across their peripheries, and a manipulative member adjustable on said yoke into co-operation with the wheels selectively, and adapted to engage the wheels to impart motion thereto upon rocking of the yoke member.

In testimony whereof I have hereunto subscribed my name.

MORRIS SHERAS.