W. D. DOREMUS.

Machine for Compressing and Stamping Lead Seals.

No. 208,006. Patented Sept. 10, 1878.

Fig. 1.

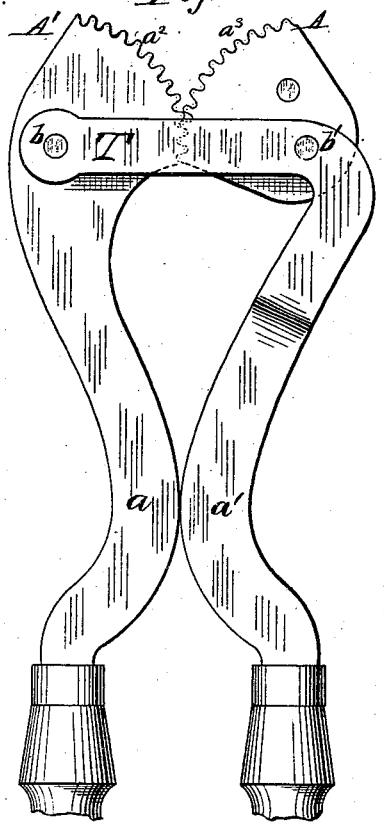


Fig. 2.

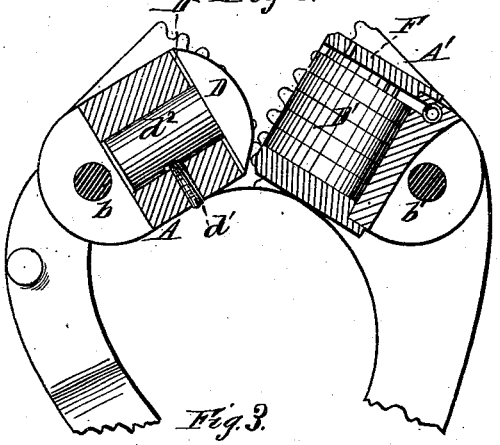


Fig. 3.

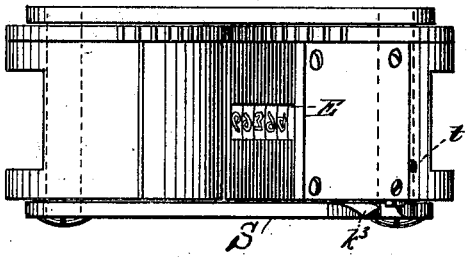


Fig. 4.

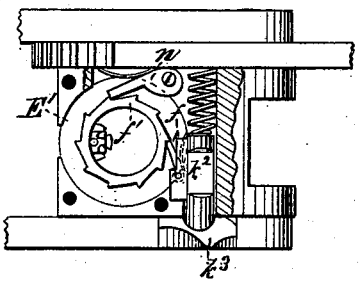


Fig. 8.

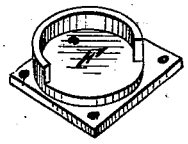


Fig. 5.

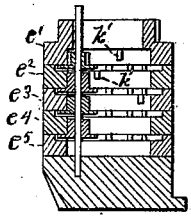


Fig. 6.

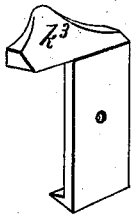
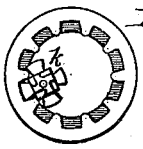


Fig. 7.



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UNITED STATES PATENT OFFICE.

WILLARD D. DOREMUS, OF WASHINGTON, D. C., ASSIGNOR OF THREE-FOURTHS OF HIS RIGHT TO JOHN W. MANCOURT, OF BROOKLYN, N. Y.

IMPROVEMENT IN MACHINES FOR COMPRESSING AND STAMPING LEAD SEALS.

Specification forming part of Letters Patent No. **208,006**, dated September 10, 1878; application filed July 27, 1878.

To all whom it may concern:

Be it known that I, WILLARD D. DOREMUS, of the city and county of Washington, and District of Columbia, have invented certain new and useful Improvements in Presses or Stamps for Compressing and Stamping Metal Disks or Lead Seals used on railroad, baggage, and freight cars, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention is in some respects an improvement on the invention described in my application filed June 30, 1877, and for which Letters Patent No. 194,226 were granted, bearing date August 14, 1877.

The object of the present invention is similar to the one described in the aforementioned patent, and involves certain new and useful combinations or arrangements of parts tending to increase the effectiveness and simplicity of the improved device, as will be hereinafter first fully described, and then pointed out in the claims.

In the accompanying drawings, Figure 1 is a side view of my invention; Fig. 2, a partial longitudinal section of the jaws or carriers, showing the serial wheels, together with the means employed for causing the said jaws or dies to work in unison. Fig. 3 is a plan view, and Figs. 4, 5, 6, 7, and 8 are detailed views, of portions of my improved press or stamp.

Like letters indicate corresponding parts in all the figures of the drawing.

A A′ are two jaws or carriers, which are coupled by a short stirrup, S, on one side, and by an extension, T, of one of the operating levers or handles on the other. These jaws or carriers are provided with handles or levers a a^1, of any suitable form or construction, and have the toothed sectors a^2 a^3 secured thereto for causing said jaws to work in unison. D D^1 are the dies for compressing the metal disks or seals upon their carrying-wires, and also for impressing upon the same any desired letters or characters, and for this purpose one of them is constructed with its operating-surface having the form of a segment of a circle, the circumference of which will be practically concentric with the axis of the screw-bolt b; the other with its operating-surface flat and serrated, it being found in practice that the metal disk or seal must be prevented from moving between the jaws while receiving its impression.

These dies may be made integral with the carrier or jaw, or may be detachable therefrom, as desired. In practice, however, I have found it desirable to make one integral and the other detachable, as will be seen in Fig. 2 of the drawings, wherein it will be observed that the die D^1 forms a part of the carrier or jaw A′, while the die D is made detachable, it being provided with a suitable shank, d^2, which enters a correspondingly-shaped socket formed in the jaw or carrier A, a screw, d^1, being employed for holding it in place.

D^2 is a washer, by means of which the die D may be made adjustable with respect to the die D^1. Longitudinally of the die D^1 is formed a slot, E, which communicates with a recess, E′, in which are arranged the serial or numbering wheels, e^1 e^2 e^3 e^4 e^5. A cap, F, being secured to the jaw or carrier D^1 confines the said wheels in place, and prevents the admission of dust to the recess E′.

The serial or numbering wheels are so formed as to accurately fit the recess E′, which is cylindrical in form. These wheels are operated automatically each time the handles or levers a a^1 are extended. The spring-pawl f, coming in contact with the ratchet f', formed upon the end carrying-wheel e^1, carries it forward one tooth, and this, in turn, carries forward by suitable mechanism the wheel e^2, and so on to the wheel e^5.

I have shown in the drawings five of these wheels, which are adapted to impress a series of numbers upon the metal disks or seals operated upon; but it is obvious that a greater or less number may be employed, or that letters or any desired number or character may be employed in lieu of the figures. When adapted to impress a series of numbers, the wheel e^1 will be so arranged as to make ten complete revolutions to one of wheel e^2, and this wheel ten revolutions to one of the next succeeding wheel, and so on in the same relative proportion to the last wheel in the series.

The means for accomplishing this result are as follows: e^1 e^2 e^3 e^4 e^5 are the serial or numbering wheels, having formed on their peripheries proper numbers from 0 to 9. These wheels are formed with recesses in their inner faces. In the recesses operate the cog-wheels *k k*, and these serve to turn the numbering-wheels at the proper time, being themselves turned by a projection, k^1, on each wheel.

The pawl which carries the first wheel is operated by a spring-bolt, k^2, forced inwardly by simply bringing the handles or levers *a* a^1 from each other. To prevent wear upon the stirrup, it is provided with a steel or other wearing plate, k^3.

In order that the ratchet *f'* may not return after having been moved forward by the pawl *f*, I provide the dog *n*, which is secured in the jaw or carrier A', and engages with the said ratchet, as is shown in Fig. 4 of the drawing.

The operation of my press is as follows: The metal disk or seal being placed in proper position on its carrying wire or wires, the handles or levers of the press are closed. In this position the metal disk or seal is dropped between the dies D D^1, which are engraved with any suitable design, until said disk or seal drops below the dies. The handles or levers are next extended, when the seal is drawn in and impressed as desired.

It is obvious that the letters or characters may be omitted from the dies and their faces left smooth without departing from my invention.

In order to set the wheels so that one number or character may be impressed upon any number of the seals, the spring-bolt k^2 should be forced inwardly, and there retained by the set-screw *t*, which may be easily turned down upon said bolt.

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

1. The combination, with the jaws or carriers, provided with dies or stamps, of the levers *a* a^1, one of which is extended to form the stirrup which unites said dies on one side, substantially as shown and described.

2. In combination with the serial numbering-wheels, the spring-pawl *f*, the spring-bolt k^2, and the stirrup S, carrying the inclined wearing-plate k^3, for the purpose specified.

W. D. DOREMUS.

Witnesses:
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A. Y. HEYLMUN.