

(No Model.)

E. J. BROOKS.

SEAL PRESS.

No. 339,042.

Fig. 1. Patented Mar. 30, 1886.

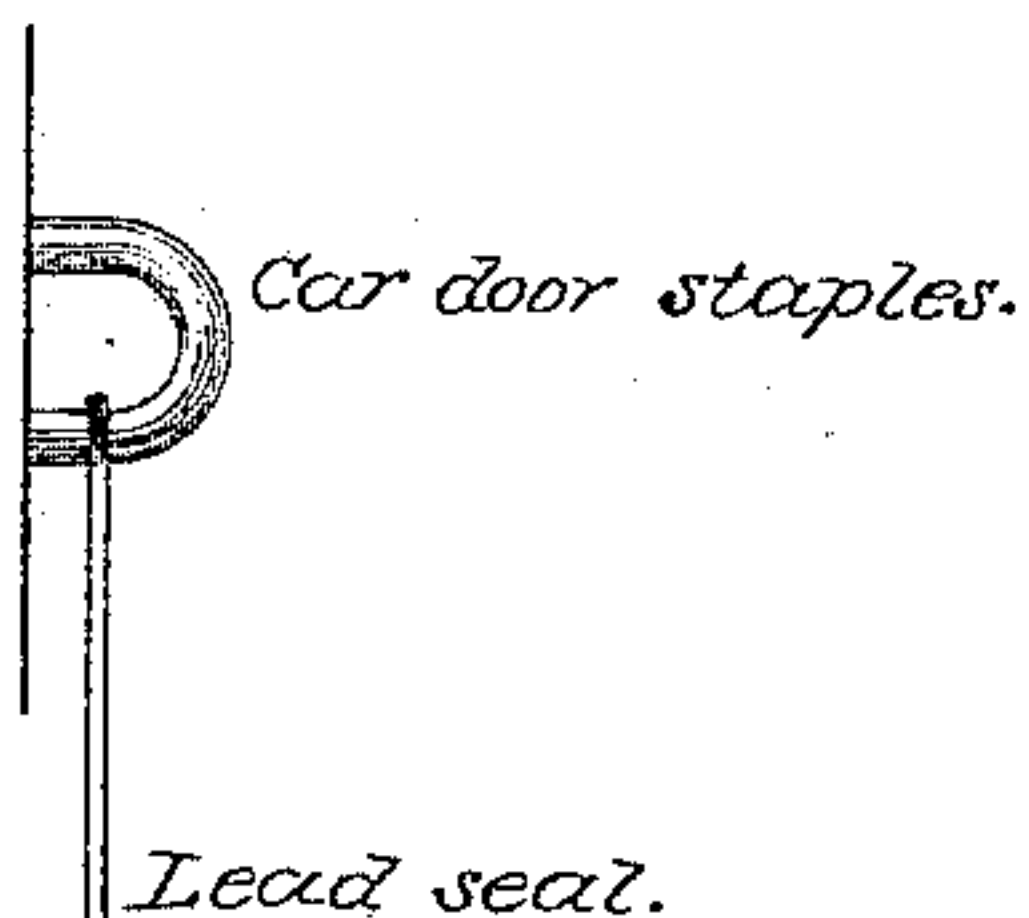
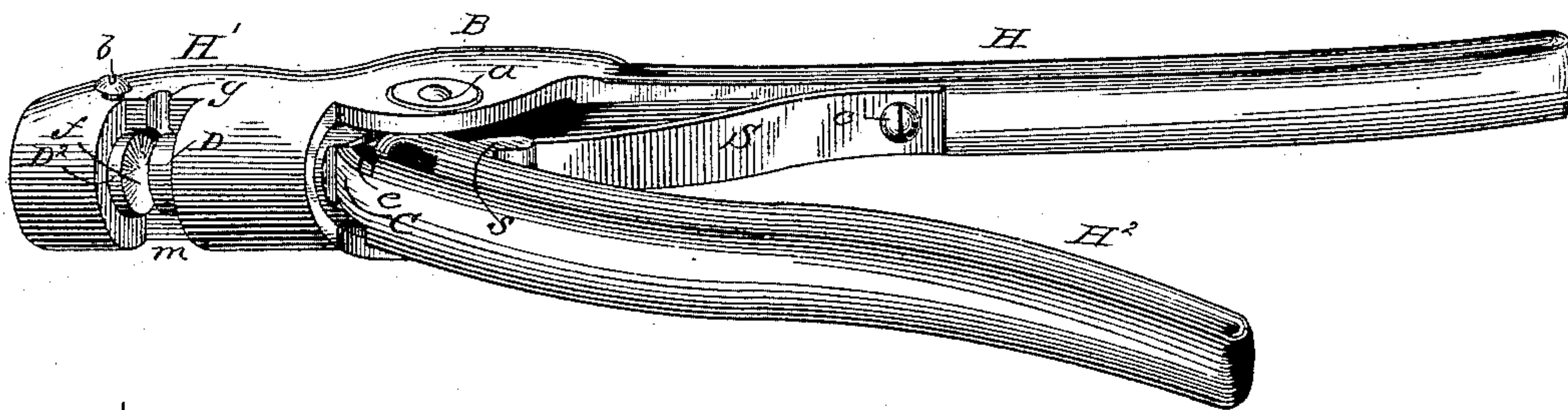


Fig. 2.

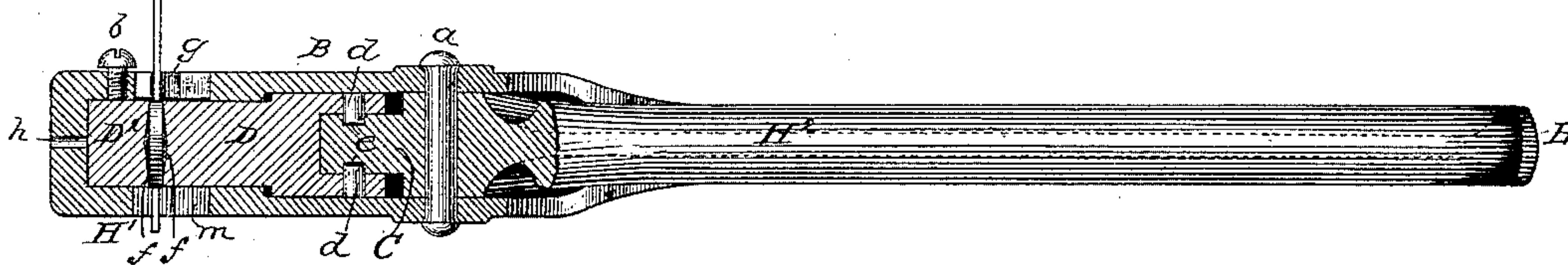
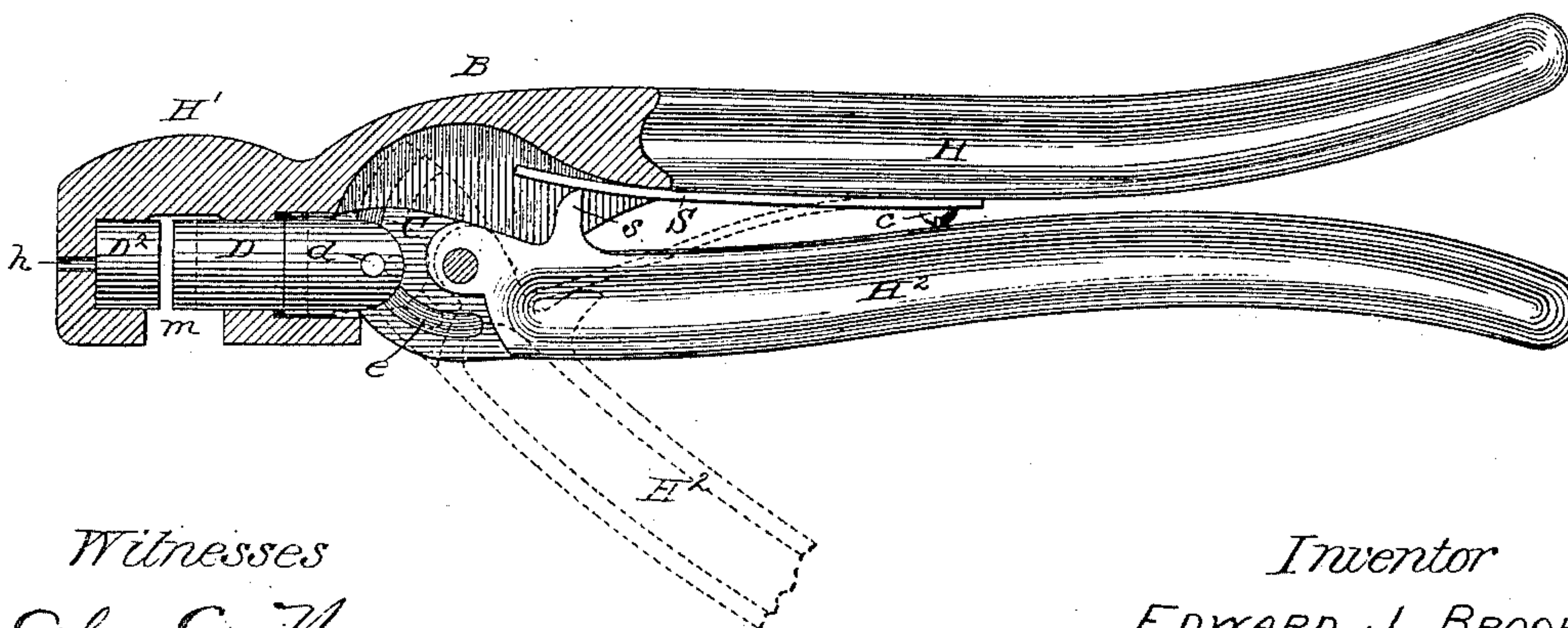


Fig. 3.



Witnesses

Al. C. Newman.
Ed. A. Newman.

Inventor

EDWARD J. BROOKS.

By his Attorney

Wm. L. Ewin.

UNITED STATES PATENT OFFICE.

EDWARD J. BROOKS, OF EAST ORANGE, NEW JERSEY, ASSIGNOR TO E. J. BROOKS & CO., OF NEW YORK, N. Y.

SEAL-PRESS.

SPECIFICATION forming part of Letters Patent No. 339,042, dated March 30, 1886.

Application filed February 23, 1885. Serial No. 157,396. (No model.)

To all whom it may concern:

Be it known that I, EDWARD J. BROOKS, a citizen of the United States, residing at East Orange, in the State of New Jersey, have invented a new and useful Improvement in Seal-Presses, (Die,) of which the following is a specification.

This invention relates, primarily, to that class of seal-presses which are especially designed for compressing and stamping "lead seals," each press having a pair of "dies," respectively fixed and sliding, the latter operated by one of a pair of lever-handles. The invention may be embodied, however, in part in seal-presses for punching the sheet-metal shackles of seals which are so fastened.

The present invention consists in certain novel combinations of parts whereby, first, the customary retracting-spring may be wholly dispensed with, or should it fail to open the dies so as to instantaneously release the seal, or should it break, a spring being preferably employed, it may be readily aided, or the use of the press may be continued after such break as long as may be necessary, or until it is convenient to turn the press in for repairs; secondly, a stronger blade-spring than has heretofore been used is accommodated, and it operates the sliding die through the coacting lever-handle; and, thirdly, the application of the press to the seal-disks of lead seals is greatly facilitated, the press being adapted to be engaged with the seal-disks laterally, and provided with a simple gage-stop which strikes the seal-disk when the latter is between the dies, the rigid lever-handle serving in this operation as means whereby to move the press and to steady it, with the aid of said gage-stop and the seal-disk, while the movable lever-handle actuates the movable die to press the seal.

A sheet of drawings, showing my said invention embodied in a lead-seal press with longitudinal dies, as aforesaid, accompanies this specification as part thereof.

Figure 1 of these drawings is a perspective view of the seal-press "open" or in normal condition. Fig. 2 is a sectional edge view thereof with its dies closed on a lead seal; and Fig. 3 is a sectional top view thereof, showing it both closed and open by full and dotted lines respectively.

Like letters of reference indicate the same parts in the several figures.

This improved seal-press is composed of two malleable-iron castings, forming, respectively, a lever-handle, H, having a body, B, and a head, H', integral therewith, and a lever-handle, H², having a grooved cam, C, integral therewith, a pair of steel dies, D D², and a blade-spring, S, together with a pivot-pin, *a*, uniting said main castings of the press, screws *b c*, fastening said die D² within the head H' and said spring S to the inner surface of the lever-handle H, and a pair of stud-pins, *d*, in the respective sides of the bifurcated rear end of said die D, to coact with the grooves *e* of said cam C. Said dies D D² are fitted to cylindrical recesses or bores in the head H', drilled or milled out at one operation, so as to be absolutely in line with each other, and separated by the mouth *m* of the head, within which the inner or face ends of the dies are located. An axial hole, *h*, Figs. 2 and 3, provides for driving said die D² into the mouth *m*, after said screw *b* is loosened in changing the dies. Said die D slides freely in the bore to which it is fitted, and is connected with said grooved cam C by said pair of stud-pins *d*, so as to be moved positively both inward and outward by the lever-handle H², with which said cam is integral. The grooves *e* of the cam C extend to its inner edge, as shown in Fig. 3. This facilitates assembling and separating the parts. Said spring S is a simple blade-spring, which may be of uniform width, and as strong as may be desired. Attached to the lever-handle H, as aforesaid, by the screw *c*, it acts on a projection or stud, *s*, formed on the inner surface of the lever-handle H², and tends to throw the latter outward and through the grooved cam C, with its grooves *e*, and said stud-pins *d* of said die D thus separates or "opens" the dies, as represented in Fig. 1, and in dotted lines in Fig. 3, in an effective manner, when the grasp of said lever-handle H² is relaxed.

The press is ordinarily applied to a seal in the position represented in Fig. 2, with the dies opened, of course.

To facilitate locating the disks of lead seals between the dies, the mouth *m* is provided with a gage-stop, *g*, in the form of a grooved wall, which is at its top in said working posi-

tion of the press, as shown in Figs. 1 and 2. The shackle of the seal is accommodated by the groove of the gage-stop, and with its disk immediately below the latter it is in proper position to be evenly pressed by forcing or drawing inward the lever-handle H^2 to the position in which it is represented in said Fig. 2, and in full lines in Fig. 3.

To provide for hard-pressing the disks of lead seals without the possibility of bursting or cracking the same, the face f of each die, or it may be of either one of the dies, is made concave, or with a flat conical recess, as shown in Figs. 1 and 2. Consequently, when the dies are closed on the seal-disk, as represented in Fig. 2, the lead is compressed from the margin inward, instead of perpendicularly, to the faces of the disk, with freedom to yield radially.

Having thus described my said improvement in seal-presses, (die,) I claim as my invention and desire to patent under this specification—

1. The combination, in a seal-press, of a sliding die having its rear end bifurcated and provided with stud-pins, a grooved cam receiving said stud-pins, and a lever-handle rigidly

united with said cam, whereby said die is moved positively both outward and inward by the lever-handle, as herein specified. 30

2. In a seal-press, the combination, substantially as herein specified, of a sliding die having its rear end bifurcated and provided with stud-pins, a grooved cam receiving said stud-pins, a pair of lever-handles and a blade-spring of uniform or substantially uniform width attached to the inner surface of one lever-handle and coacting with a stud on that of the other, one lever-handle being rigidly united with said cam while the other is relatively fixed, for the purposes set forth. 35 40

3. In a lead-seal press, a head which is horizontal in the working position of the press, constructed with a mouth in its front edge to receive the seal-disks laterally, and a grooved gage-stop at the top of said mouth, in combination with a pair of dies having their faces within said mouth, substantially as herein specified. 45

EDWARD J. BROOKS.

Witnesses:

E. JOSIE BROOKS,

SARAH B. BROOKS.