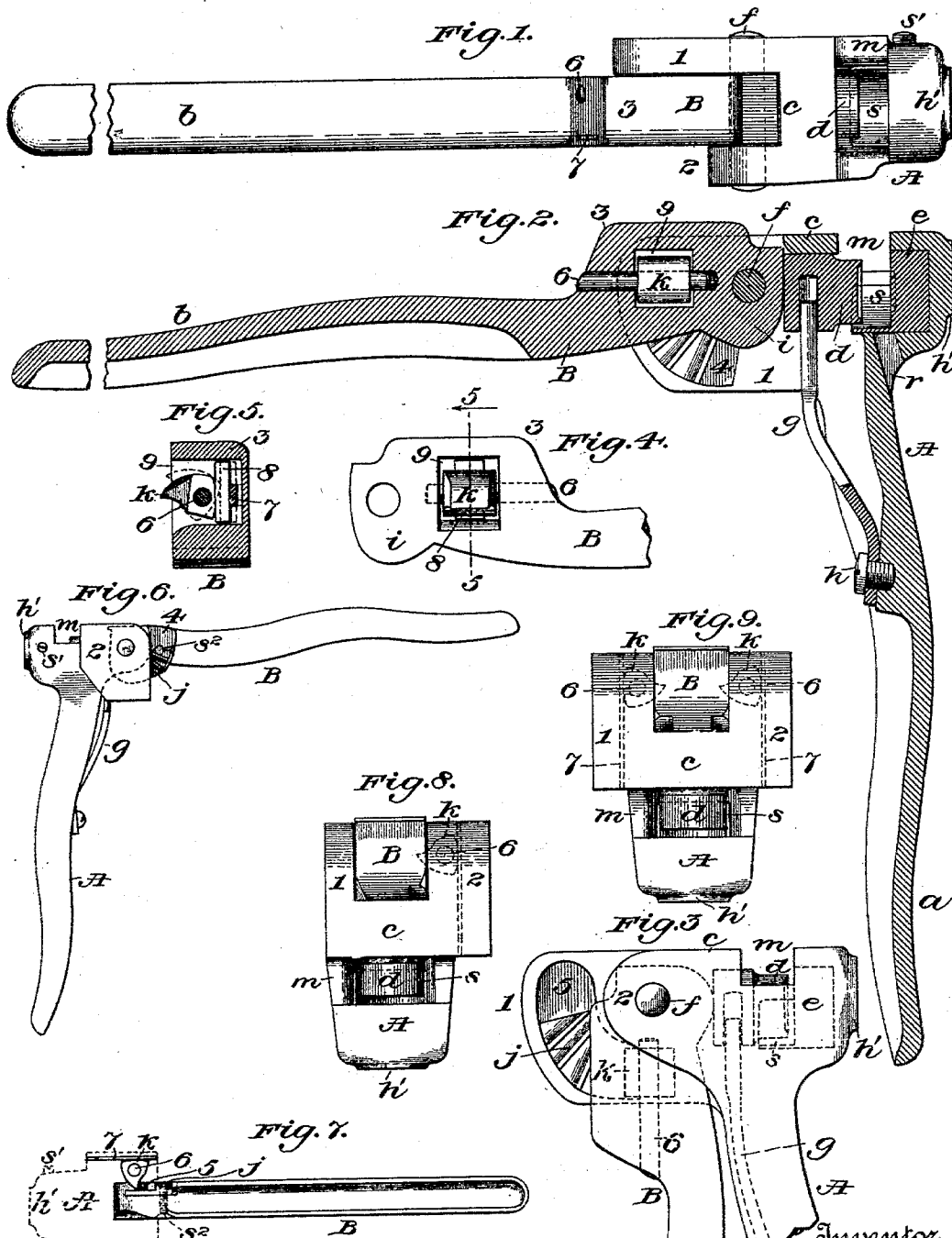


(No Model.)

E. J. BROOKS
SEAL PRESS.

No. 569,742.

Patented Oct. 20, 1896.



Witnesses
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UNITED STATES PATENT OFFICE.

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SEAL-PRESS.

SPECIFICATION forming part of Letters Patent No. 569,742, dated October 20, 1896.

Application filed August 12, 1896. Serial No. 602,574. (No model.)

To all whom it may concern:

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

This invention is additional to my improvements in seal-presses patented May 6, 1884, No. 298,284; September 22, 1885, No. 326,897; October 13, 1885, No. 328,106; October 14, 1890, No. 438,140, and November 1, 1892, No. 485,370. The object of the present improvement, in common with said patented improvements, is to insure securely fastening and distinctly stamping each seal, and to this end each press is provided with a "ratchet attachment" which prevents reopening the lever-handles of the press after the pressing operation is begun until the press has been closed to the predetermined extent necessary to perfectly compress the seal.

The present invention consists in a novel combination of peculiarly-arranged parts whereby a simple and effective form of seal-press, known as the "hammer" press, is for the first time adapted to so operate, and the ratchet attachment is simplified and more fully incorporated in portions of the press which are otherwise essential, so as to lessen the number of parts.

The invention further consists in a specific combination and arrangement of parts whereby the ratchet-rack is carried by and may be conveniently cast in one of the cheeks of the customary head, simply extended or enlarged for this purpose.

A sheet of drawings accompanies this specification as part thereof.

Figure 1 is a top view of my improved seal-press opened. Fig. 2 is a longitudinal section of the same. Fig. 3 is a side elevation of the head portion of the same press closed. Fig. 4 is a view from the opposite side of its pawl-carrying lever-handle detached. Fig. 5 is a cross-section on the line 5 5, Fig. 4, partly in elevation. Fig. 6 is an elevation on a reduced scale of a modified seal-press open. Fig. 7 is a view of its rack-carrying lever-handle projected from Fig. 6, showing its pawl and pawl-spring in juxtaposition. Fig. 8 is

a top or end view of said modified seal-press, Figs. 6 and 7, closed, on the same scale as Figs. 1 to 5, inclusive; and Fig. 9 is a view similar to Fig. 8, showing an additional modification.

Like letters and numbers refer to like parts in all the figures.

The improved seal-press in either of its forms is composed principally of two main parts A and B, having lever-handles *a b* integral therewith, a head *c* on said main part A containing a reciprocating die *d*, and preferably a bed-die *e* to coact therewith, and a fulcrum-pin *f*, which unites the two main parts. A spring *g*, Fig. 2, attached by a screw *h* to the casting of the main part A, renders the die *d* normally retracted, and a cam *i*, eccentric to said fulcrum-pin *f* at the extremity of the main part B, coacts with said die to fasten and stamp the seal by compression.

To insure fully closing the press at each pressing operation, and thus to insure securely-fastened and legibly-stamped seals without any very great or expensive departure from the pattern of this popular form of press, one or each of the cheeks 1 and 2 of the head of the press is suitably extended or enlarged, and the cam-carrying main part has a suitable enlargement 3, and they are provided, respectively, with a ratchet-rack *j*, concentric with said fulcrum-pin *f*, and a pawl *k* in mesh with said rack, said rack having reversing recesses 4 and 5 at its ends, and said pawl being accompanied by a pin 6, radial to said fulcrum-pin, upon which the pawl is free to turn, and a spring 7, with or without a follower 8, Figs. 4 and 5, within the recess 9, which incloses or partly incloses the pawl, to hold said pawl normally in effective position.

The bed-die *e* is preferably and conveniently formed with a stop-flange *s* to locate the seal between the dies within the mouth *m* of the seal-press, and is fastened in place in customary manner by a screw *s'*. The customary hammer-face *h'* is formed on the head *c* in line with the dies *d* and *e*. A recess (shown at *r* in Fig. 2) accommodates a core-support in the operation of casting the main part A. These details are common to the presses shown in the drawings and are preferred details of

mechanical construction, but form no part of the present invention.

In the species represented by Figs. 1 to 5, inclusive, the ratchet-rack *j*, with its recesses 4 and 5, is formed in the inner side of the cheek 1, which is extended or enlarged edge-wise relative to the cheek 2, as shown in Fig. 1. Thus located the rack, with its recesses, may be conveniently formed in the act of casting the main part A, and both pawl and ratchet may be as large as may be required for strength and durability. With the rack so arranged the stroke-controlling pawl *k*, with its pivot 6, spring 7, and follower 8, is located within a recess 9 and a drill-hole crossing the same in said enlargement 3 of the main part B, as found in this press.

In the species represented by Figs. 6, 7, and 8 the ratchet-rack *j*, with its recesses 4 and 5, is formed by an attachment to said enlargement 3 of the main casting B, as found in this press, held in place within a recess in one side of said enlargement by a countersunk screw *s*², and the stroke-controlling pawl *k* with its pivot-pin 6 and spring 7 are carried by the main part A within suitable recesses and drill-holes in the laterally-enlarged cheek 2 of the head *c*.

Either arrangement of the pawl and ratchet may be duplicated, as represented in Fig. 9, which shows a duplication of the arrangement last described.

Each of the springs 7 above described may be fastened in place by means of a screw or rivet, or in any preferred manner, or in a suitable shape may be left loose behind the pawl within the opening 9, which incloses the latter. Spiral springs may be substituted for the

blade-springs shown at 7 in the drawings. Dies for fastening and stamping sheet-metal seals and seals of other forms may take the place of the lead seal-dies shown at *d* and *e*, and other like details and additional modifications will suggest themselves to those skilled in the art.

Having thus described the said improvement, I claim as my invention and desire to patent under this specification—

1. In a seal-press composed principally of two main parts, having lever-handles integral therewith, a head on one of said parts containing a reciprocating die, and a fulcrum-pin which unites the two main parts, the combination of a cheek or cheeks forming part of said head and a suitable enlargement of the other main part, having respectively a spring-pressed pawl reversing on a pivot radial to said fulcrum-pin and a ratchet-rack concentric with said fulcrum-pin and having reversing recesses at its ends to coact with said pawl.

2. In a seal-press composed principally of two main parts, having lever-handles integral therewith, a head on one of said parts containing a reciprocating die, and a fulcrum-pin which unites the two main parts, the combination of a cheek forming part of said head and provided with a ratchet-rack concentric with said fulcrum-pin and a spring-pressed pawl carried by the other main part, reversing on a pivot radial to said fulcrum-pin, and coacting with said rack, substantially as hereinbefore specified.

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Witnesses:

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