J. L. Baldwin,

Embossing Mold.

No. 34,344. Patented Feb. 11, 1862.

Fig: 1.

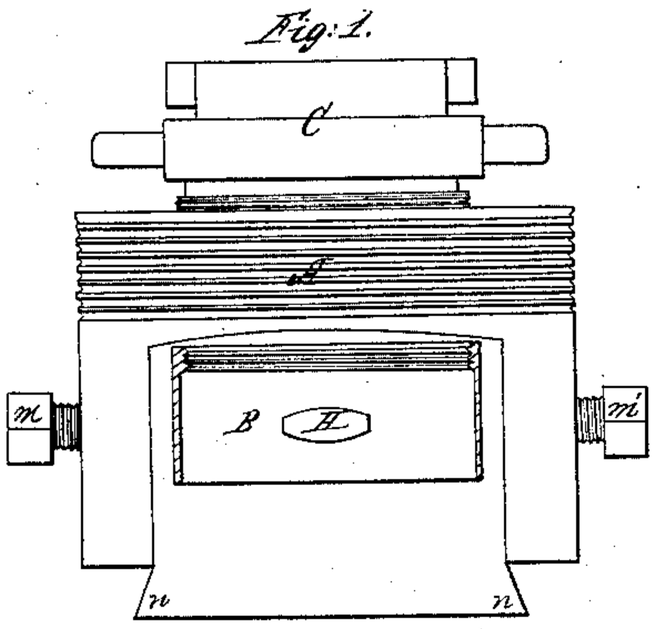


Fig: 2.

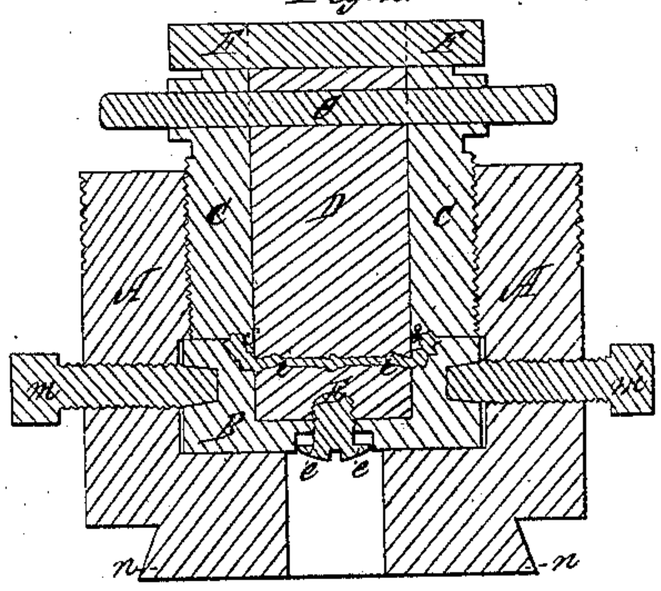


Fig: 3.

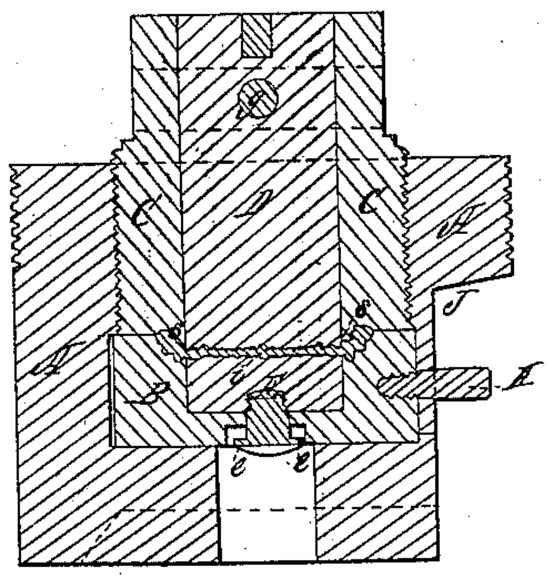
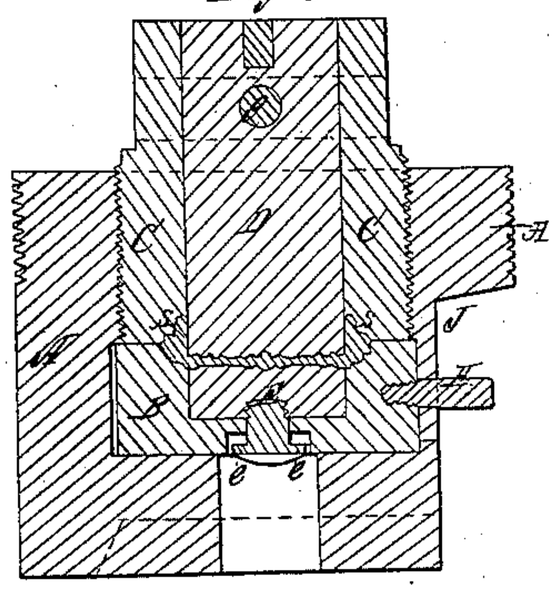


Fig: 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

J. LEWIS BALDWIN, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN MOLDS FOR MAKING DAGUERREOTYPE-CASES.

Specification forming part of Letters Patent No. **34,344**, dated February 11, 1862.

To all whom it may concern:

Be it known that I, J. LEWIS BALDWIN, of Newark, in the county of Essex and State of New Jersey, have invented certain improvements in dies for forming a screw in plastic material as a fastening for daguerreotype or other photographic cases, needle-cases, and other similar boxes, the construction of which I have described in the following specification, and illustrated in its accompanying drawings, with sufficient clearness to enable others skilled in the arts to which it pertains or is most nearly allied to make and use my invention.

This invention consists in, first, the combination of a removable plunger forming the center upper portion of the die, with the outside portion so made and combined with the casing as to be capable of being screwed down upon the lower portion of the die, substantially as hereinafter more fully set forth; second, in the combination, as hereinfter described, with the plunger and the said outside upper portion of the die, of a key by which said plunger is held in position while the material is hardening, as set forth; third, constructing the outside upper portion of the die with a screw fitting into the casing to elevate and depress it, of the same pitch as the thread which forms the screw for fastening daguerreotype or other cases, substantially as set forth.

Figure 1 is a front elevation of the die. Fig. 2 is a vertical central section on a parallel plane of projection to Fig. 1. This figure shows the die for forming the female screw in the case. Figs. 3 and 4 are vertical central sections transverse in their plane to Figs 1 and 2.

A is an iron frame or block in which the parts of the die are held in proper position.

B is the lower portion of the die. It is provided with a handle H, to facilitate the operation of handling it.

The block A has an opening J in one side of it for the introduction of the lower portion of the die. The lower portion of the die is made in two parts to enable the operator to easily remove the work therefrom. The central one E is fitted into a recess in the part B, and kept from falling out of this recess by a screw *k*. It is, however, by means of this screw allowed a little play to allow it to be used as a means for the removal of the work from this portion of the die. The lower portion of the die fits into a recess in the block A, and is or may be secured in position when in use by means of the set-screw *m*.

C is the upper portion of the die. It is formed with a screw on its periphery to work in the frame A. The pitch of this screw must be the same as that required upon the case to be formed, to insure the proper delivery of the work from this portion of the die, as otherwise the parts would combine, or the case would be drawn out of the lower portion of the die before the upper portion would be released.

D is the plunger or inner portion of the upper die. This is provided at the top with a cross-bar F, which fits into two notches in the top of the part C.

g is a key, which is driven through the parts C and D to hold the plunger down while the work is becoming sufficiently hard for removal.

i is the work or plastic material operated upon.

Operation: The die should be first moderately heated. The plunger should then be removed, a sufficient amount of composition inserted to form the article required, the composition used being usually that of which composition daguerreotype-cases are generally formed. The plunger is then inserted and subjected to pressure by means of a suitable press. The key *g* is next driven in, and the die with its contents set away to allow the composition to harden sufficiently to allow its removal. The plunger D is then removed, and the part C being unscrewed the half-case will remain in the lower part of the die. This latter is then removed from the block and by pressure applied to the screw in the center piece E the article is forced out and may be removed with facility.

I claim—

1. The combination, with the upper portion

of the die C, frame or block A, and lower parts of the die or mold, of the plunger D, substantially as described.

2. The combination, with the parts C and D, of the key *g*, so as to accomplish the purpose set forth.

3. Constructing the part C with two thread portions or screws of equal pitch, one of which fits into the block A, and the other of which forms the screw upon the work, substantially as and for the purpose set forth.

J. LEWIS BALDWIN.

Witnesses:
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