

No. 642,665.

Patented Feb. 6, 1900.

F. H. BANCROFT.
DIE FOR EMBOSsing MACHINES.

(Application filed Aug. 28, 1899.)

(No Model.)

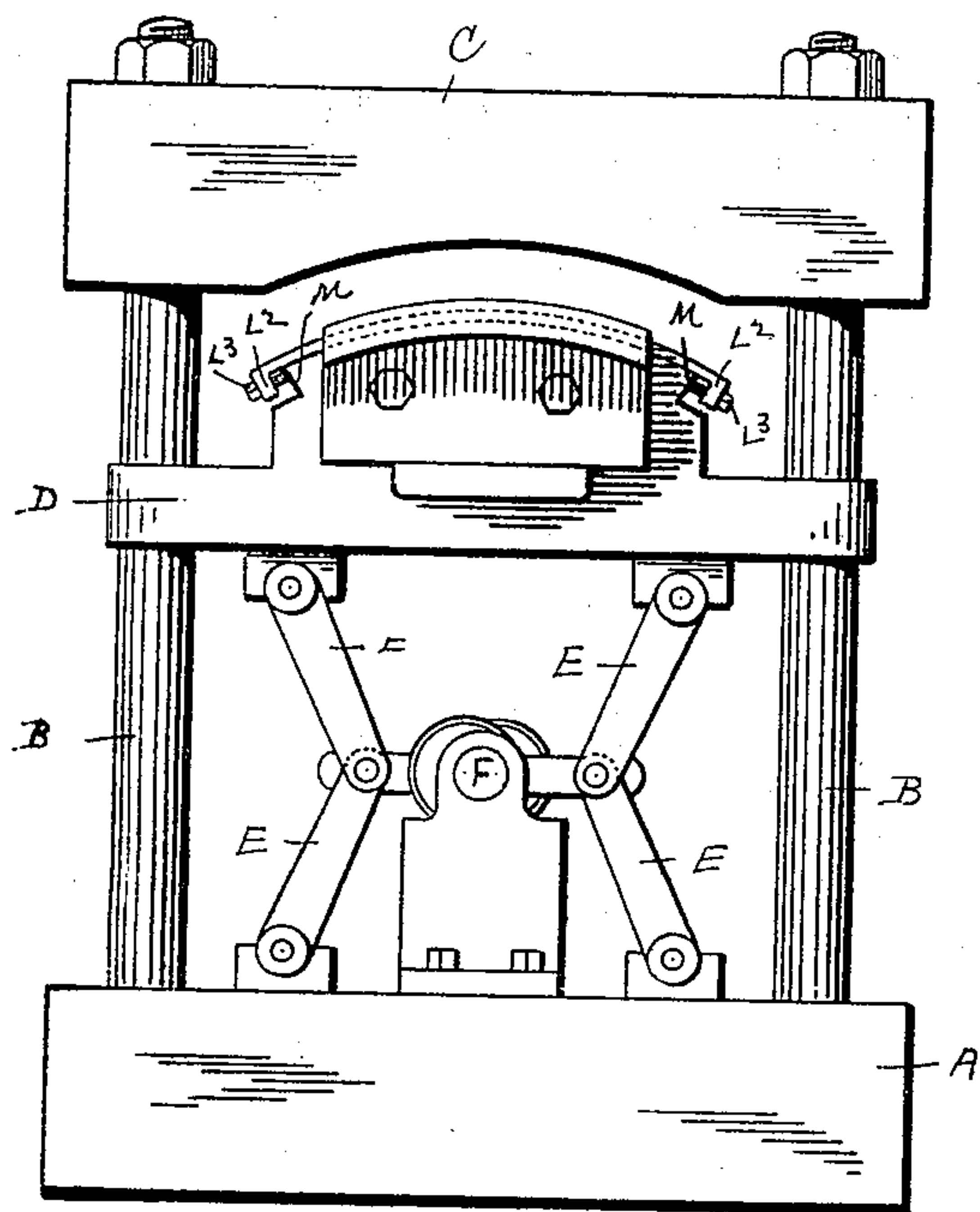


FIG. 1.

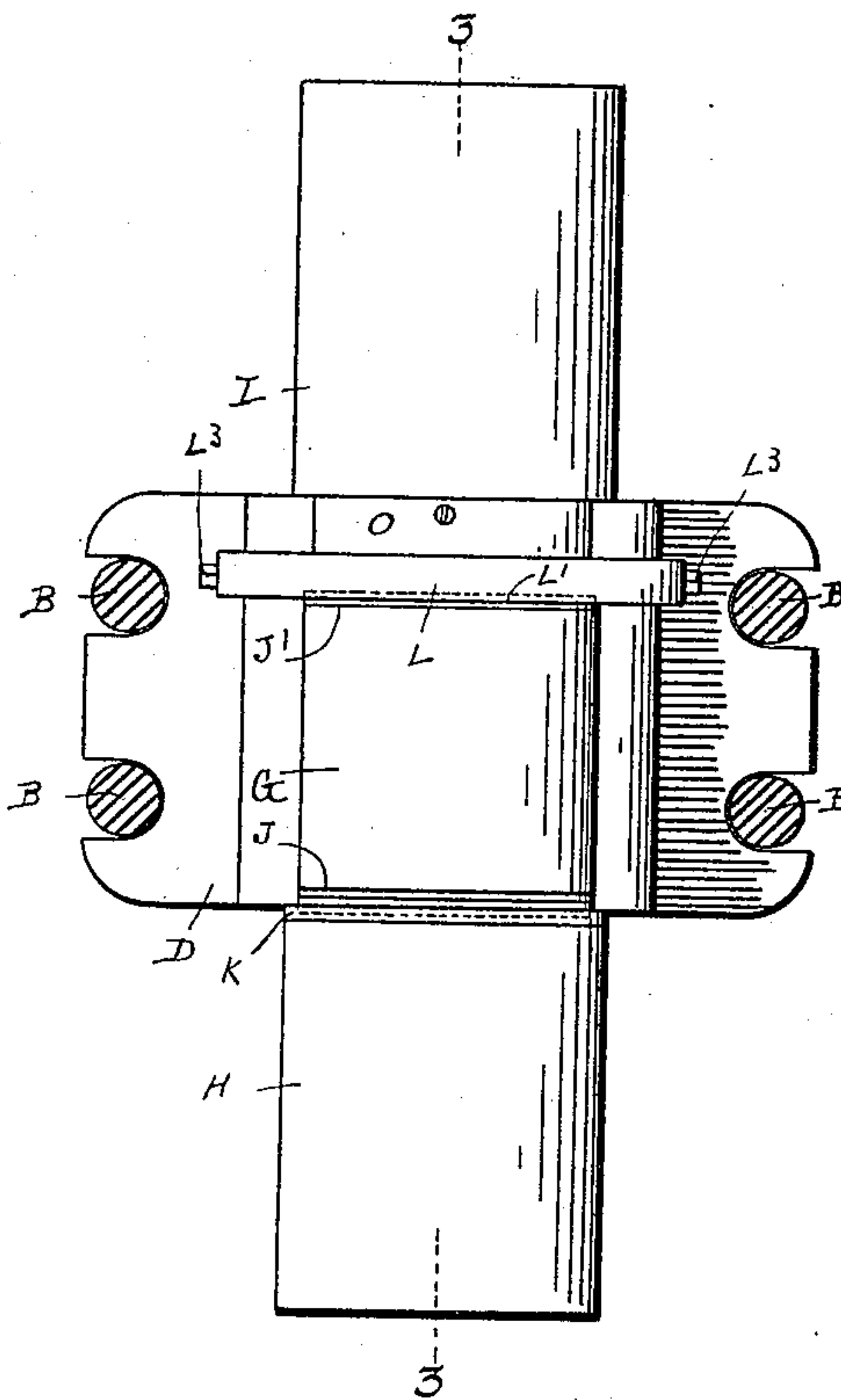


FIG. 2.

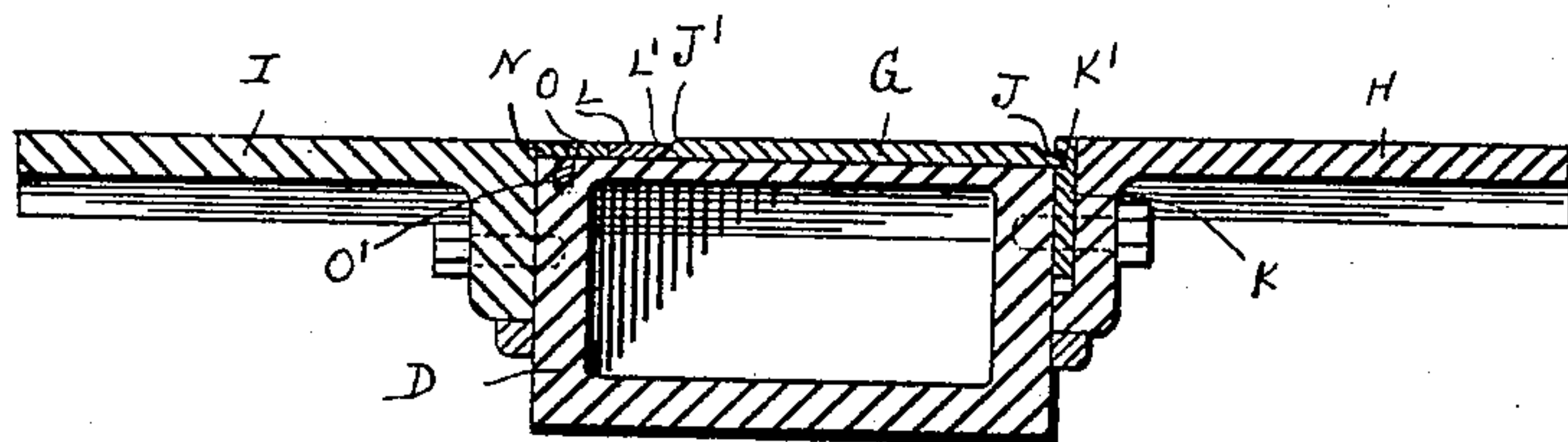


FIG. 3.

Witnesses,

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UNITED STATES PATENT OFFICE.

FRANK H. BANCROFT, OF GARDNER, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO HENRY M. RICH, OF SAME PLACE.

DIE FOR EMBOSSING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 642,665, dated February 6, 1900.

Application filed August 28, 1899. Serial No. 728,679. (No model.)

To all whom it may concern:

Be it known that I, FRANK H. BANCROFT, a citizen of the United States, residing at Gardner, in the county of Worcester and Commonwealth of Massachusetts, have invented new and useful Improvements in Dies for Embossing-Machines, of which the following is a specification, accompanied by drawings forming a part of the same, in which—

Figure 1 represents a front view of an embossing-machine embodying my invention. Fig. 2 is a top view of the follower and die supported thereon. Fig. 3 is a vertical sectional view of the follower and die on line 3 3, Fig. 1.

Similar letters refer to similar parts in the different figures.

My invention has for its object to provide improved means for attaching the die to the reciprocating follower of an embossing-machine; and it consists in the construction and arrangement of parts as hereinafter described, and set forth in the annexed claims.

Referring to the drawings, A denotes the die, B B the upright posts, C the fixed cross-head, and D the follower, of an embossing-machine, said follower having a reciprocating motion by means of toggle-joint levers E, which are actuated by eccentrics carried upon the main driving-shaft F in the usual and well-known manner.

Attached to the upper surface of the follower D is an embossing-die G, the face of which, with the under surface of the cross-head C, constitutes the pressing-surfaces of the machine. To the front and rear sides of the follower D, I attach brackets H and I, the front bracket H forming the table upon which the work is laid as it is fed to the machine and the rear bracket I forming the table upon which the work is delivered after it has been embossed. The die G is provided with the appropriate figure or design which is to be embossed and rests upon the upper surface of the follower D, as shown in sectional view in Fig. 3. The front and rear edges J J' of the die G are beveled, and the front edge J is inserted in a groove K' of a plate K, which is clamped between the front side of the follower D and the front bracket H and is capable of vertical adjustment, so that it

may be made to engage the front edge of the die and hold it in close contact with the follower D. The beveled rear edge J' of the die is overlapped by the beveled edge L' of a strap L, which extends across the upper surface of the follower and is provided with lugs L², which carry set-screws L³, bearing against the surface M of the follower. The sides of the follower are notched, so that the surface M will form right angles with the upper surface of the follower in order that the pressure of the screws L³ may exert a direct tensile strain upon the die-retaining strap L.

The rear bracket I projects slightly above the upper surface of the follower, forming a shoulder N, and between the shoulder N and the edge of the strap L, I insert a plate O, held upon the follower by a screw O' and serving to hold the strap L and die G from lateral movement on the follower. The follower D in that class of embossing-machines designed for embossing wood consists of a hollow shell, which is heated by the introduction of a flame or steam to the interior of the follower, and the above-described method of attaching the die to the follower holds the die securely in position without requiring any holes or openings through the shell of the follower.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination with the follower of an embossing-machine and a die held thereon, of a plate adjustably attached to one side of the follower and having a groove engaging the edge of the die, substantially as described.

2. The combination with the follower of an embossing-machine and a die supported thereon and provided with a beveled edge, of a strap extending across said follower and overlapping said beveled edge and tightening-screws held in the ends of said strap and pressing against the sides of said follower, whereby a tensile strain is imparted to said strap, substantially as described.

3. The combination with the follower of an embossing-machine and a die supported thereon and of a strap extending across the follower and overlapping the edge of said die, means for applying a tensile strain to said strap, and a removable plate bearing against

the edge of said strap and held from lateral movement, substantially as described.

4. The combination with the follower of an embossing-machine, of a die supported there-
5 on and having beveled edges, of a plate provided with a groove engaging one of said beveled edges and adjustably attached to said follower, a strap overlapping the other of said beveled edges, screws carried by the ends of

said strap and bearing against the follower, 10 and a plate bearing against the edge of said strap and means for holding said plate from lateral movement, substantially as described.

Dated August 23, 1899.

FRANK H. BANCROFT.

Witnesses:

BERTHA M. ATKINS,
ALBERT A. UPTON.