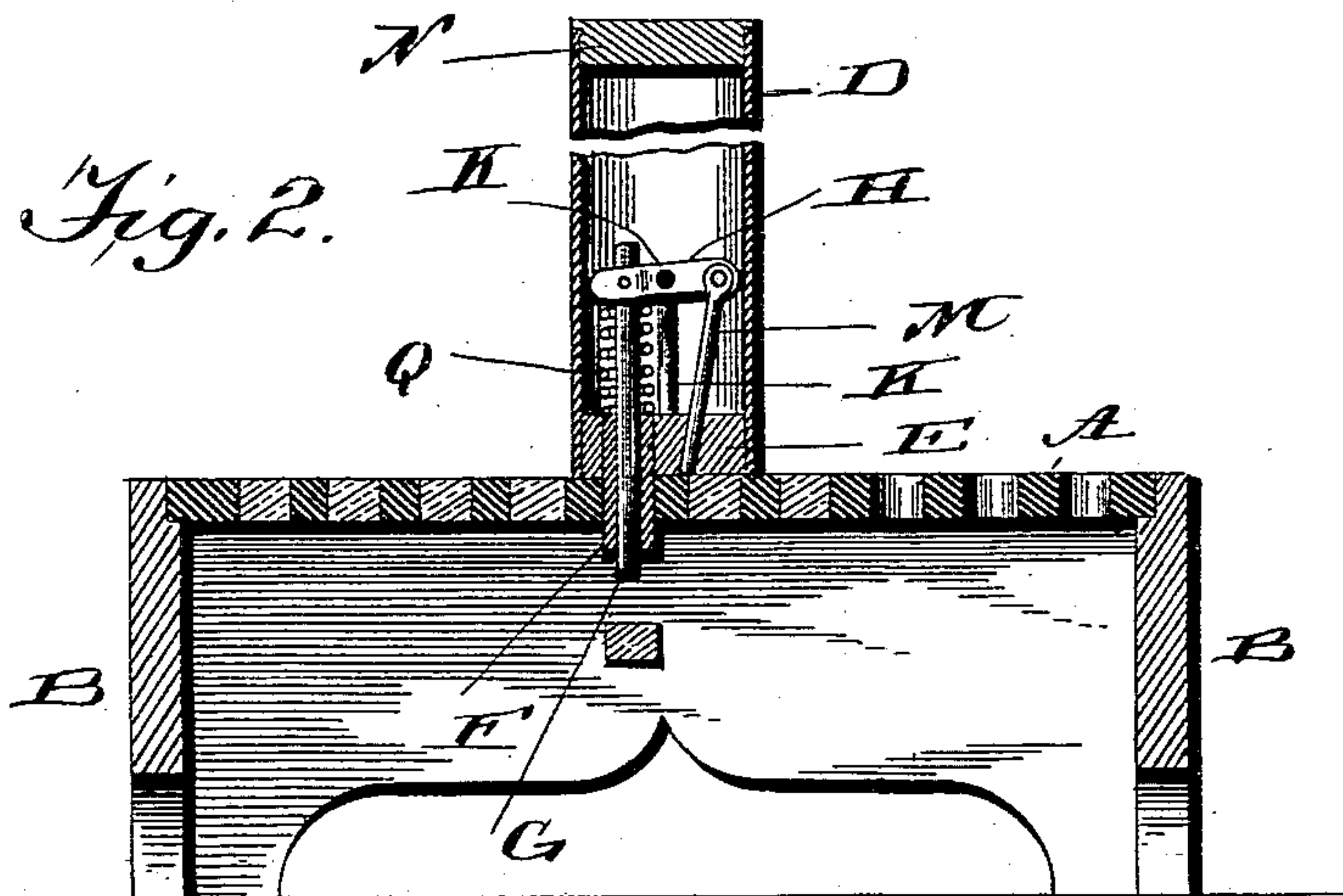
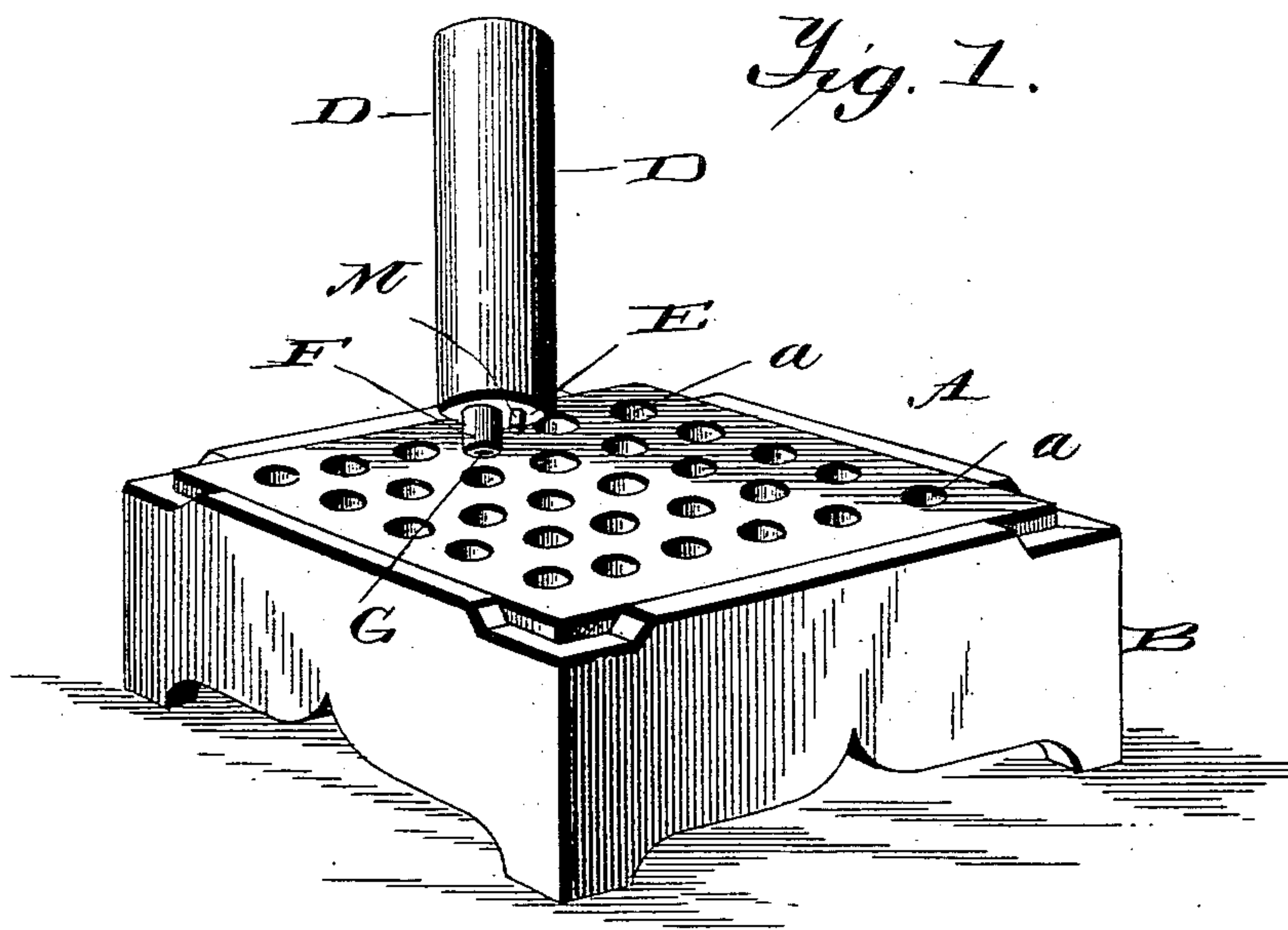


(No Model.)

J. H. LOVING.  
MACHINE FOR MAKING TABLETS.

No. 555,105.

Patented Feb. 25, 1896.



Witnesses:

L. C. Hills.

A. L. Hough

Inventor:

Joseph H. Loving,  
by Franklin H. Hough Atty.



# UNITED STATES PATENT OFFICE.

JOSEPH H. LOVING, OF FATE, TEXAS.

## MACHINE FOR MAKING TABLETS.

SPECIFICATION forming part of Letters Patent No. 555,105, dated February 25, 1896.

Application filed June 25, 1895. Serial No. 553,999. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH H. LOVING, a citizen of the United States, residing at Fate, in the county of Rockwall and State of Texas, have invented certain new and useful Improvements in Machines for Making Tablets; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in tablet-making machines or molds, and the object of the invention is to provide a device which will be simple in construction and which will make tablets of different sizes, there being provided plates which are perforated and of different sizes, whereby the thickness which it is desired to mold the tablets may be regulated.

A further object of the invention resides in the construction of perforated plates which are filled with the plastic material from which the tablets are to be made, and of a cylinder carrying at one end a smaller hollow cylinder of such a diameter that it will snugly fit the different perforations of the plate, and by means of a spring-actuated pin carried within said smaller cylinder the tablet may be detached from the small cylinder automatically as the cylinder passes through an aperture.

To these ends and to such others as the invention may pertain the same consists further in the novel construction, combination and adaptation of the parts, as will be hereinafter more fully described and then specifically defined in the appended claim.

I clearly illustrate my invention in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which drawings similar letters of reference indicate like parts throughout both views, in which—

Figure 1 is a perspective view of the perforated tablet-plate on a suitable standard, with the cylinder about to be put in place in a perforation of said plate, ready to punch the tablet out. Fig. 2 is a sectional view with the cylinder in place in a perforation.

Reference now being had to the details of the drawings by letter, A designates a plate, made preferably of vulcanized rubber, having a series of perforations *a a*, and B is a standard on which the plate is designed to rest while the tablets are being punched from the said plate.

D is a cylindrical-shaped holder carrying in its bottom the small hollow cylinder F, passing through the plug E. This small cylinder F extends down a short distance below the lower end of the cylinder-holder, and is of such a size as to snugly fit the perforations of the said plate.

G is a pin designed to work in the hollow cylinder F, and the upper end of said pin is pivoted to the lever H, which is fulcrumed on the bracket K, secured to the upper side of the plug E, the other end of said lever being pivoted to the rod M, whose free end passes through and extends a short distance below the lower face of the said plug.

N is a plug for closing the upper end of the cylindrical holder.

For holding the pin G at its highest throw I interpose a spring Q between the upper face of the plug E and a lug or collar at the upper end of said pin.

The operation of the device is as follows: The material which is to be molded into tablets is first forced into the various perforations of the plate and the surface of the plate smoothed off. Then the small cylindrical tube is forced through a perforation, which is filled with the plastic material, and the lower end of the said cylinder forces the tablet thus molded out from the perforation, and when the tablet is free from the perforation the lower end of the rod M strikes the upper face of the said plate and causes the pin carried within the cylinder F to be depressed, and its lower free end coming in contact with the tablet hanging to the cylinder causes it to be detached therefrom, and the operation is repeated until all of the tablets are punched from the perforations.

When it is desired to make tablets of different sizes, as to thickness, plates of various thicknesses are employed.

Having thus described my invention, what I claim to be new, and desire to secure by Letters Patent, is—

In a tablet-making device, the combination of the perforated plate, the holder D, plug E carried therein, a hollow cylinder mounted in said plug, a spring-actuated pin carried  
5 within said cylinder, a bracket K, the lever H fulcrumed thereon and pivoted at one of its ends to the upper end of said pin, of the rod M, pivoted to the opposite end of the said lever, its free lower end extending below the

lower end of the said cylinder-holder, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPH H. LOVING.

Witnesses:

W. B. DAVIS,

JNO. H. LOVING.