

No. 812,283.

PATENTED FEB. 13, 1906.

C. L. McBRIDE.

DIE PRESS.

APPLICATION FILED MAR. 27, 1905.

Fig. 1.

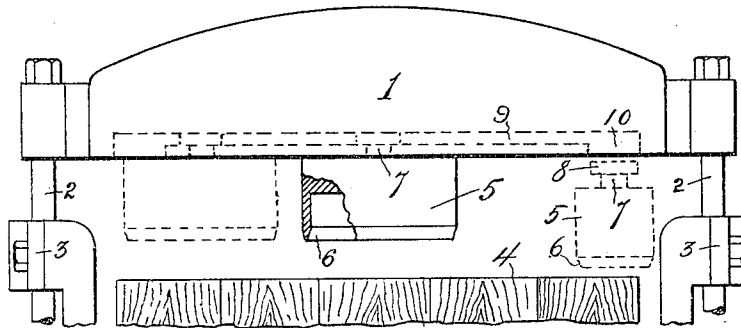


Fig. 2.

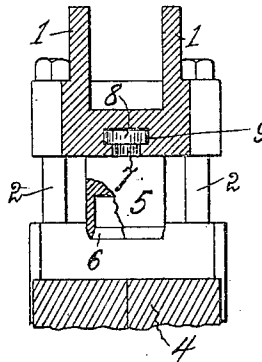
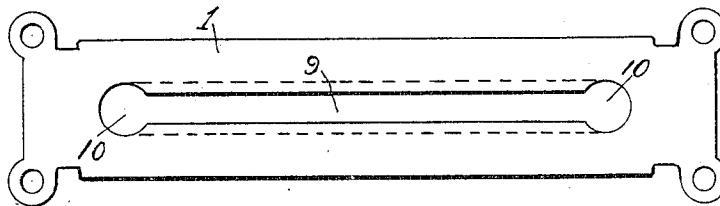


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES L. McBRIDE, OF TOLEDO, OHIO.

DIE-PRESS.

No. 812,283.

Specification of Letters Patent.

Patented Feb. 13, 1906.

Application filed March 27, 1905. Serial No. 252,252.

To all whom it may concern:

Be it known that I, CHARLES L. McBRIDE, a citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have invented certain new and useful Improvements in Die-Presses; 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 figures of reference marked thereon, which form a part of this specification.

My invention relates to dies and die-presses for dying out leather, leather-board, skins, cloth, rubber, paper, strawboard, felt, flannel, or any other material where a cutting-die can be used. Heretofore in the use of these machines a stout horizontal beam has been caused to reciprocate vertically above a base or table upon which the goods to be cut are disposed—usually in several thicknesses. The cutting-die with its cutting edges resting upon the goods is pressed downward by the descending beam and the several thicknesses of the material are severed, their outline conforming to the shape of the die. When the beam is raised out of the way, the die is now lifted manually and shifted to cut the goods adjacent to the nearest preceding cut. In the manufacture of many articles—such, for instance, as gloves—the die is reversed or turned “end for end” at each succeeding cut. As the dies are heavy, the manual labor involved in this operation is great.

My invention is designed to overcome the difficulty above indicated, and more particularly to provide the die and the beam of the die-press with a swiveled connection by means of which the die is lifted with the beam after each downward stroke, the support of the die being such that the die may be easily revolved horizontally upon its swiveled support.

My invention is further designed to furnish a support and connection for the die which will permit its being moved from one end of the beam to the other and which will admit the ready and convenient attachment and detachment of the die and press-beam.

I attain these objects by means of the de-

vices and arrangements of parts hereinafter described and shown, and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the upper part of a die-press, showing the vertical movable beam, the cutting-table, and a die in place, the die being shown partly in section; Fig. 2, an end sectional elevation of the same, and Fig. 3 a bottom plan view of the beam.

Like numerals of reference indicate like parts throughout the drawings.

In the drawings, 1 is a beam of a die-press, connected at both ends with vertically-reciprocating rods moving in guides 3 on the frame of the machine. The rods 2, which carry the beam, are connected with and driven by the usual or any preferred form of gearing or motive power.

4 is the bed-plate or cutting-table, formed, preferably, of blocks of wood.

5 is a cutting-die the flange of which is shaped to the contour of the blank to be cut and edged, as at 6. Upon the back of the die, at its center, is formed a projecting lug 7, upon the end of which is an enlarged portion or head 8. In the center of the face of the beam 1 is a longitudinal channel 9, broadened at its bottom, the channel being in cross-section, made to conform to the head and shank 7 8, as shown in Fig. 2. At each end of the channel 9 the exterior part of the channel is enlarged, as at 10, (see Fig. 3,) this opening being slightly larger than the head 8. The head is slipped into either of the holes 10 and moved slightly toward the center of the beam. The die is now supported upon the flange of the channel 9 and may be rotated upon and moved lengthwise of the beam upon its support as desired.

It will be seen that by the arrangement here described the die is raised and lowered with the beam and may be readily and easily moved into any desired position throughout the length of the slot, thus relieving the operator of the burden of manually lifting and turning the die at each successive cut.

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

In a device of the described character, a vertically-reciprocable horizontal beam hav-

ing in its face an internally-enlarged longitudinal slot with enlarged openings at each end, combined with a cutting-die, a shank projecting from the middle of the back of the die,
5 and a head on the extremity of the shank adapted to enter said enlarged opening and to engage said longitudinal slot.

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

CHARLES L. McBRIDE.

Witnesses:

CLEM V. WAGNER,
M. L. MARKS.