(No Model.)

G. E. MEEKER.

DIE PRESS.

No. 287,767. Patented Oct. 30, 1883.

Fig 3

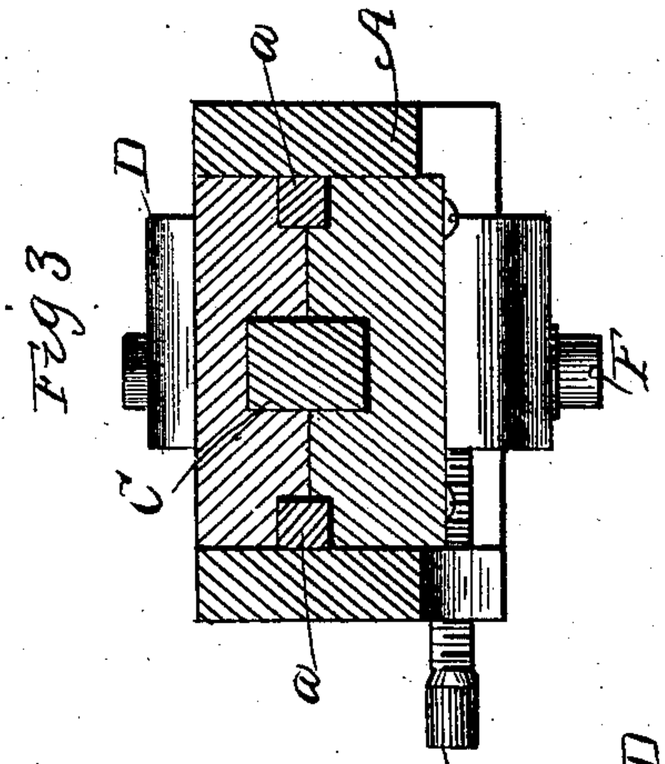


Fig 2.

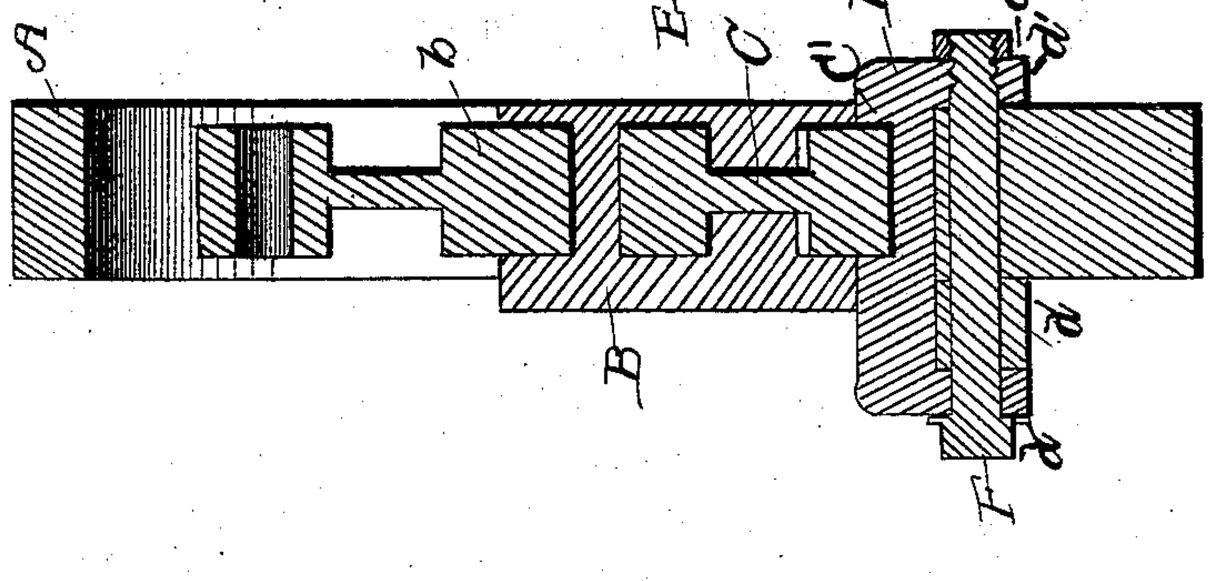
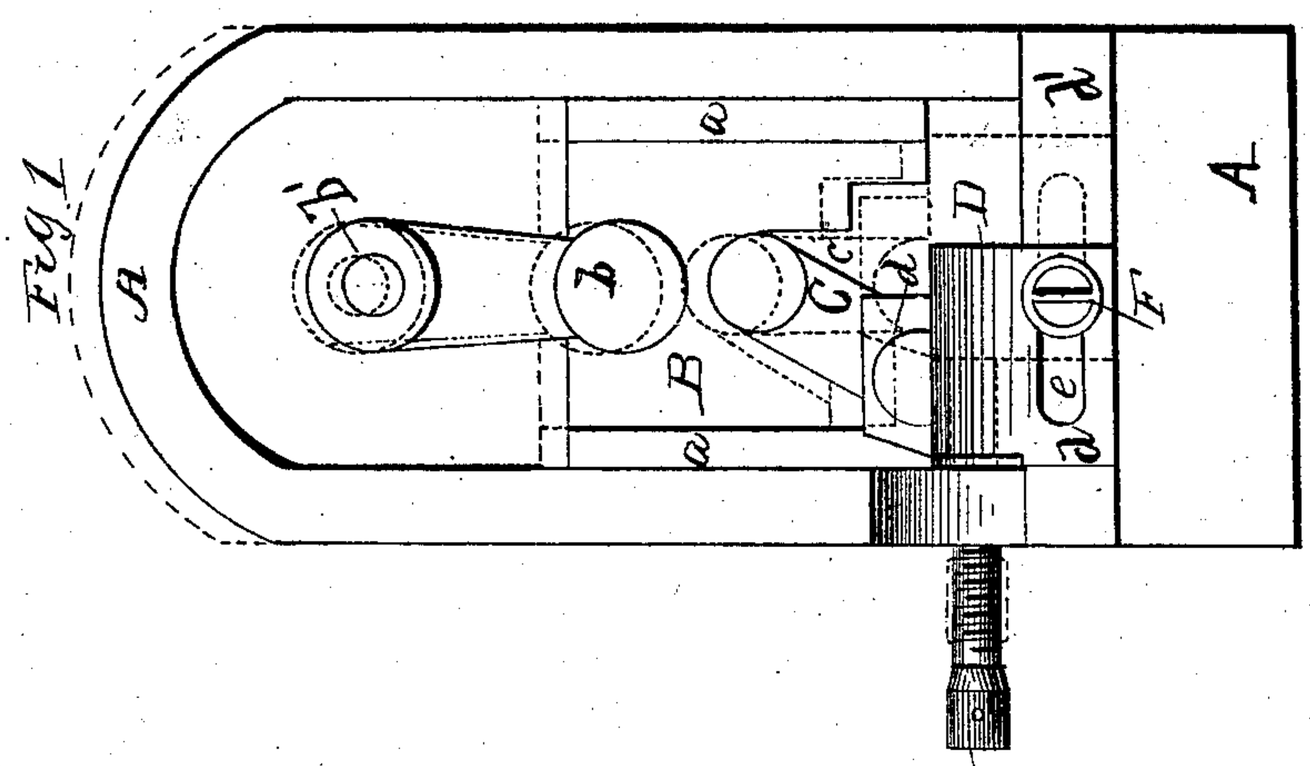


Fig 1.



WITNESSES
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GEORGE E. MEEKER, OF MERIDEN, CONNECTICUT.

DIE-PRESS.

SPECIFICATION forming part of Letters Patent No. 287,767, dated October 30, 1883.

Application filed January 23, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. MEEKER, a citizen of the United States of America, residing at Meriden, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Die-Presses, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention pertains to an improvement in die-presses having for its object to compensate the wearing or grinding away of the punch to accommodate it to the die; and it consists in the combination and arrangement of parts, substantially as hereinafter more fully set forth and claimed.

In the accompanying drawings, Figure 1 is a side view, with one side removed, of my improved press. Fig. 2 is a vertical transverse section thereof. Fig. 3 is a horizontal cross-section of the same.

In carrying out my invention I provide the carrier A of the press, on its inside, with ways or cleats *a*, and within this carrier I arrange a block or support, B, provided with grooves in its sides, to receive the ways or cleats *a* of the carrier A, to permit it to have vertical movement therein. The upper end of the block has a pitman, *b*, suitably seated therein, said pitman being connected to the crank for operating the carrier.

In the lower part of the block or support B is hung or pivoted a link or lever, C, its lower end being fitted into a suitable recess, C′, formed in the sliding fulcrum or slide D, the interior of block B being recessed or cut away at the left of its vertical central plane, to allow the movement of the link or lever C close to that side of the carrier, the purpose of which will presently be seen.

The fulcrum or slide D, which has flanges *d*, extending down against a ledge, *d′*, of the base of the slide, and directly against the opposite side of the said base or slide, is rendered capable of adjustment by means of a screw, E, working in the said fulcrum or slide D, preferably in a metallic plate fastened to the said fulcrum. The fulcrum or slide D is guided by means of a screw, F, passing through the base and ledge of said slide or frame, and through slots *e*, one in each flange of said fulcrum, said screw being adapted to be tightened to firmly hold the parts at the point of adjustment.

It will be noticed that when the punch is first put in position at the lower end of the carrier designed to be adapted to that end, the link or lever C, Fig. 1, is adjusted close to the left side of the carrier, and that when the punch is worn or reduced by grinding, the screw E, after loosening the screw F, is turned so as to move the fulcrum or slide D of the said link or lever away from the left of the carrier-frame more or less toward the center thereof, according to the amount of wear or reduction it has undergone, when it will be observed that the carrier with its punch is caused to descend the desired extent, to compensate said wear or reduction and accommodate it to the die below.

The pitman *b* is secured at aperture *b′* to the crank of a rotating wheel, from which the power is drawn, and the punch, which operates in connection with a suitable die, located immediately beneath it and secured to the lower part of the carrier A. The die being located beneath the punch, as the same becomes worn the fulcrum or slide D is slid forward, causing the link or lever C to assume a less inclined or a vertical position, thus increasing the distance between aperture *b′* and the bottom of the punch, to compensate for the shortening of the punch by the wearing out of the same.

I claim and desire to secure by Letters Patent—

1. The combination of the carrier A, to which is secured the punch, pitman *b*, apertured at *b′*, to connect with operating mechanism, block or support B, having grooves to receive ways or cleats *a*, and fulcrum or slide D, adjustable by means of screw E, and guided by screw F, substantially as shown and described.

2. The combination of carrier A, pitman *b*, having its lower end secured in a recess formed in block or support B, link or lever C, operating in recess C′, and block or support B, slide D, adjustable by screw E, and screw F, all substantially as shown, and for the purpose specified.

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

GEORGE E. MEEKER.

Witnesses:
A. L. STEVENS,
H. B. TODD.