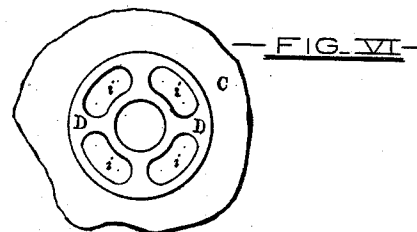
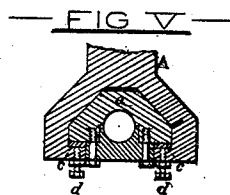
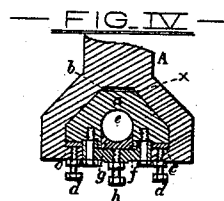
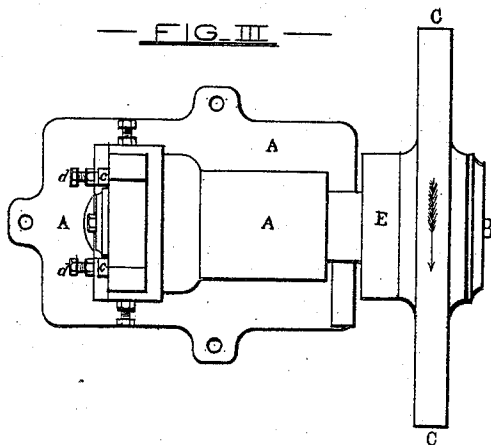
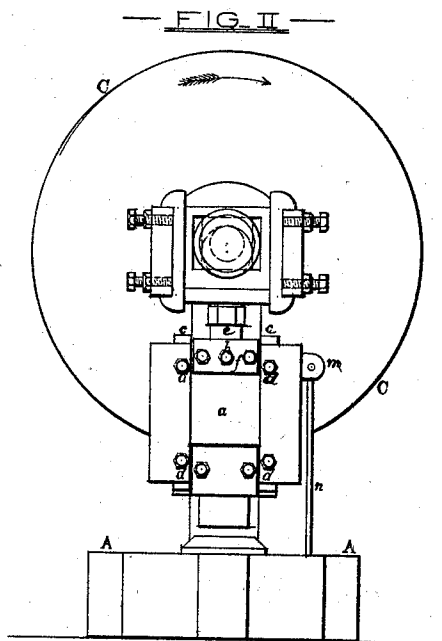
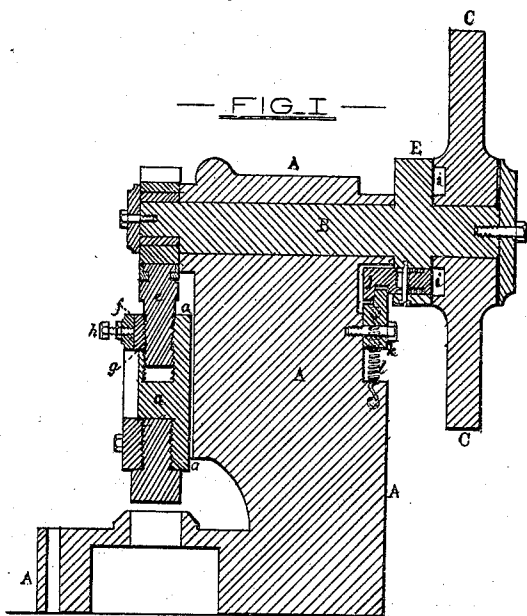


M. VON CULIN.
CUTTING AND PUNCHING PRESS.

No. 171,452.

Patented Dec. 21, 1875.



— WITNESSES —
J. Perkins Grice
W. R. Way

— INVENTOR —
Matthew Von Culin

UNITED STATES PATENT OFFICE.

MATTHEW VON CULIN, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN CUTTING AND PUNCHING PRESSES.

Specification forming part of Letters Patent No. **171,452**, dated December 21, 1875; application filed May 20, 1875.

To all whom it may concern:

Be it known that I, MATTHEW VON CULIN, of Baltimore, in the county of Baltimore and State of Maryland, have invented new and useful Improvements in Cutting and Punching Presses, which improvements are fully set forth in the following specification, reference being had to the accompanying drawing.

The object of my invention is to produce a better, a less complicated, and less expensive machine than has yet been produced for said purpose.

Figure I is a central sectional elevation, Fig. II is a front view, Fig. III is a plan view, and Figs. IV, V, and VI are details of construction, of my improved press.

Similar letters of reference indicate corresponding parts.

The main peculiarities of said press are the construction and arrangement of the parts for guiding and operating the plunger which carries the punch, shears, slotter, cutter, straightener, bender, &c.; also for adjusting the same to a higher or lower position to suit dies, &c., of different height and for other contingencies.

A, in Figs. I, II, and III, represents the frame-work and bed of my press. B, Fig. I, represents the driving-shaft; C, the driving-pulley; D, Fig. VI, the inside face of the hub of the pulley.

Fig. III is a top elevation. Figs. IV, V, and VI are details.

a is the plunger, which carries the punch, &c., and is guided against and between the frame A and adjustable gibs *c c*, as shown in Fig. IV. The adjustable gibs *c c* are adjusted by the set-screws *d d* and lock-nuts. The back part of the plunger from *x* to *b* has clearance, as shown, to allow for wear. By this

means I get a perfect bearing, which allows of no vibration of the plunger, (without the process of scraping,) wears evenly, the wear being taken up by adjusting the gibs by means of the set-screws. The bolt *e*, cap *f*, and lock-block *g* represent my plan for adjusting the plunger or slide.

The lock-block *g* is fitted into the plunger *a*, and the thread is cut in the plunger *a* and block *g* at the same time. Then the block is taken out and eased on the sides, so that after inserting the bolt *e* and setting up the set-screw *h* the bolt is made immovable by the thread of the block *g* bearing hard against the thread of the bolt *e*. By slacking the set-screw *h* and turning the bolt *e* the plunger can be raised or lowered, so as to adjust the punch as required.

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

1. The combination, as herein shown and described, with the slide *e a*, the parts being screw-threaded exteriorly and interiorly, as shown, and the part *e* swiveled in the yoke, of the cap *f*, secured to the part *a*, the block *g*, having a screw-thread to correspond with that on the part *e*, and the set-screw *h*, as and for the purpose set forth.

2. The combination of the slide *a*, having the beveled side, as shown, with the frame of the machine, similarly shaped, and large enough to allow a clear space behind the slide, and the gibs and set-screws, as shown and described, and for the purpose set forth.

MATTHEW VON CULIN.

Witnesses:

J. PERKINS GRICE,
W. R. WAX.