(No Model.)

C. F. E. KRETZNER.

MOUTH PIECE OF PRESSES FOR THE MANUFACTURE OF TILES.

No. 318,267. Patented May 19, 1885.

Fig. 2

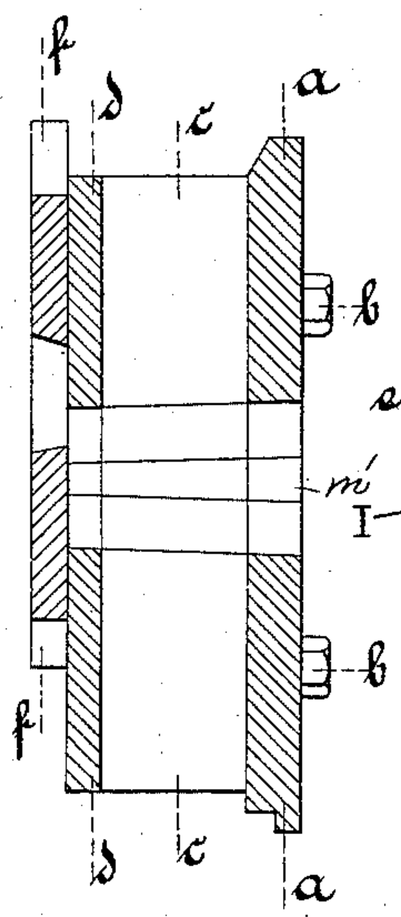


Fig. 1

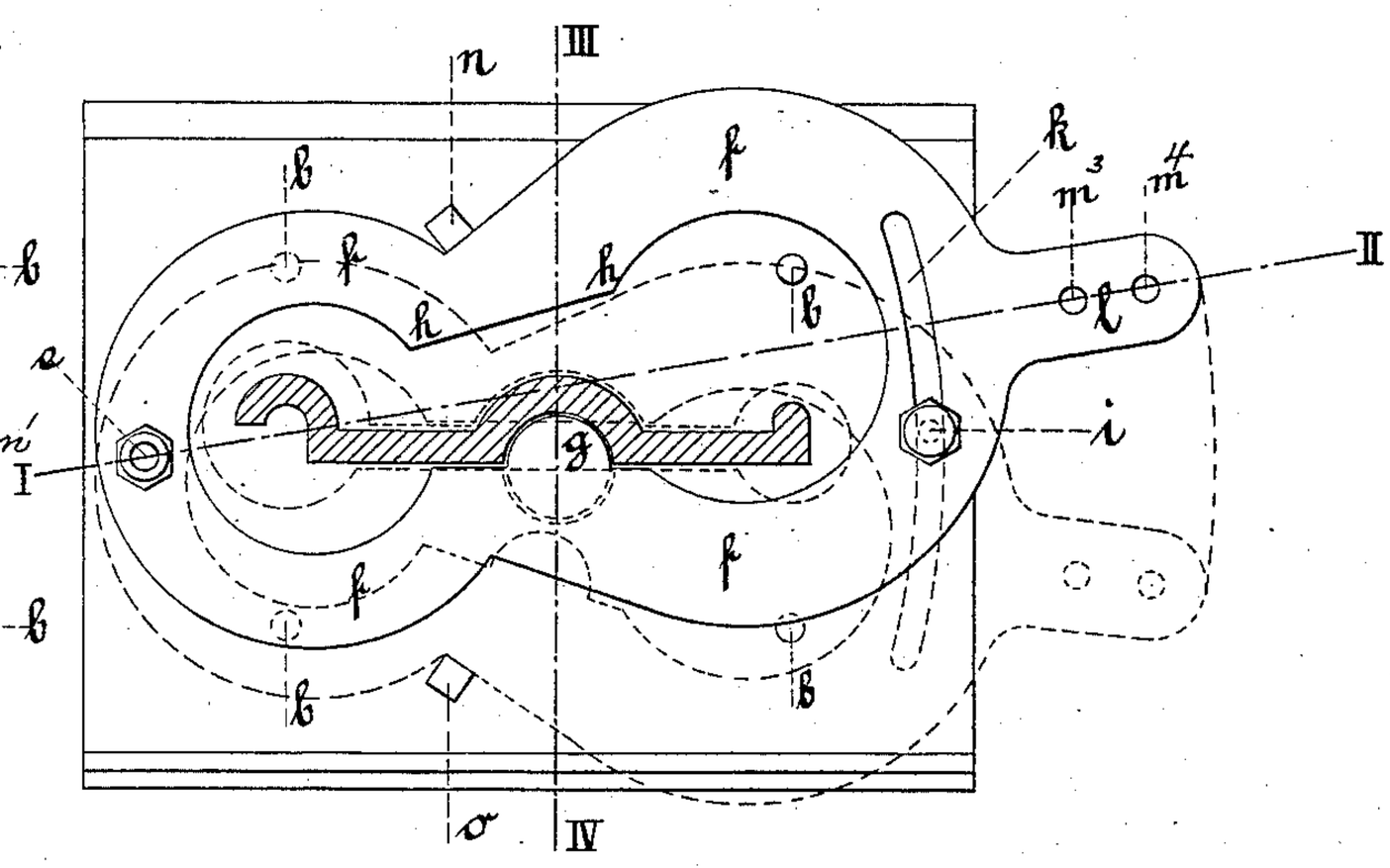
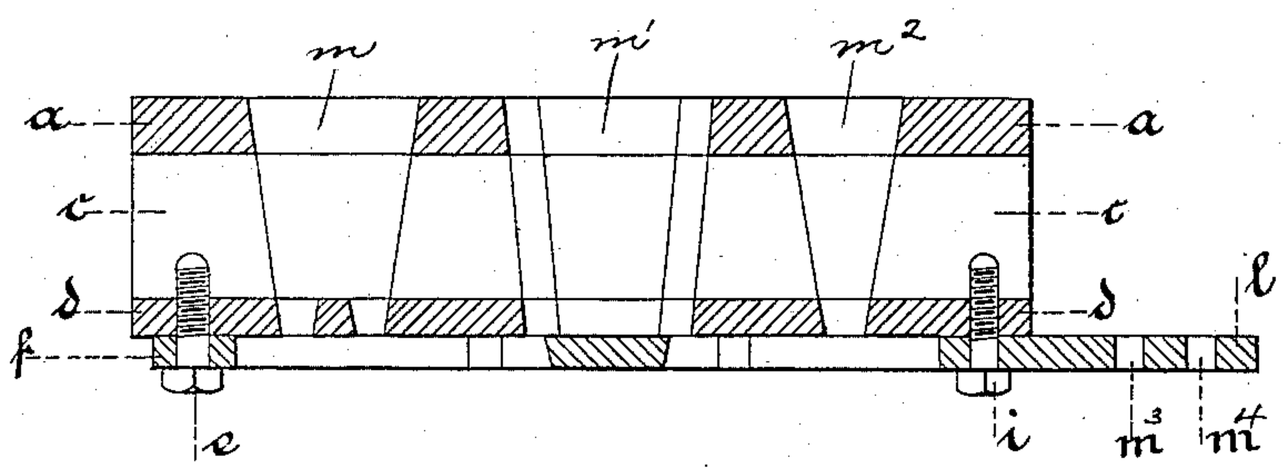


Fig. 3



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UNITED STATES PATENT OFFICE.

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MOUTH-PIECE OF PRESSES FOR THE MANUFACTURE OF TILES.

SPECIFICATION forming part of Letters Patent No. 318,267, dated May 19, 1885.

Application filed September 16, 1884. (No model.)

To all whom it may concern:

Be it known that I, CARL FRIEDRICH EMIL KRETZNER, a subject of the King of Prussia, residing at Kunzendorf, near Sorau, Lusatia, Prussia, Germany, have invented certain new and useful Improvements in Mouth-Pieces of Presses for the Manufacture of Tiles, of which the following is a specification, reference being had therein to the accompanying drawings.

In the accompanying drawings, Figure 1 represents a front elevation of a mouth-piece of a tile-press provided with my improved pivoted molding-plate. Fig. 2 represents a vertical cross-section through the same on the line III IV of Fig. 1, and Fig. 3 represents a longitudinal section through the same on the line I II of Fig. 1.

An iron plate, *a*, is fitted into the press-opening and forms the back plate of the mouth-piece, *d* being the front plate thereof, the intervening space being occupied by a wooden frame, *c*, which is held in place by screws *b*, Figs. 1 and 2. The mouths *m m′ m²* for the continuous passage of the clay through this mouth-piece are of conoidal shape, tapering outward, the inclination being greatest in the right and left hand mouths, or *m* and *m²*, where friction is greatest also. This compels a relatively greater amount of clay to be forced through these side mouths and guards against the risk of the clay cord (or continuous stream of clay) breaking at these points. The mouths are relatively so shaped and arranged that the clay forced through them takes the shape in cross-section shown in Fig. 1, except the peculiar shape of the middle part. This is formed by a molding-plate or shaping-plate, *f*, which is pivoted at one end by a screw, *e*, to plate *d*, and has vertical vibration over the face of the latter plate, this motion being limited in each direction by stops *n o*, attached to said plate *d* respectively above and below plate *f*. A curved slot, *k*, in the other end of said plate receives a guide-screw, *i*, which is attached to plate *d*. This screw holds plate *f* to plate *d*, and also serves as an additional stop, as the respective ends of the slot come in contact with it at the same time that the stops *n o* are respectively struck by plate *f*. The outwardly-extending lip *l* of plate *f* is provided with holes *m² m³*, whereby a handle may be attached to said plate for greater convenience in vibrating it. The interior of said plate is removed or left open so that said plate forms a sort of frame surrounding the mouths *m m′ m²*. On the inner face of the lower part of this plate or frame *f* is raised a curved boss, *g*. On the corresponding face of the upper part of said plate or frame *f* is a broad flat shoulder, *h*. When this plate is turned upon its pivot into the position shown in dotted lines in Fig. 1, the boss *g* causes the middle part of the continuous stream of clay or clay cord to take the shape shown in full lines (cross-section) of said figure. When the said plate is brought down into the position indicated by dotted lines in said figure, the shoulder *h* flattens the top of said middle part of the cord. By turning the plate *f* alternately into these two positions it will produce in the clay cord or strip tile forms having alternately a raised and a flattened middle part. The relative frequency, length, or order of succession of these tile-forms may be varied at will by the operation of said plate. Afterward the clay cord passes to any suitable cutting apparatus, whereby these tile forms are severed from one another to constitute independent tiles.

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

1. In combination with the mouth-piece of a tile-machine, a plate pivoted thereto at one side, and having a boss, *g*, for forming a raised middle part in the tile-cord, the pivoting of said plate allowing it to be conveniently shifted at will into or out of position for said boss to come in contact with the clay, substantially as set forth.

2. In combination with the mouth-piece of a tile-machine, a plate pivoted thereto and having a shoulder, *h*, for depressing the middle part of the clay cord, substantially as set forth.

3. The pivoted plate *f*, provided with boss *g*, shoulder *h*, and slot *k*, in combination with the mouth-piece plate *d*, the stops *n o*, and the guide-screw *i*, all constructed, arranged, and operating substantially as and for the purpose set forth.

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

CARL FRIEDRICH EMIL KRETZNER.

Witnesses:

WILHELM PATAKY,

B. ROI.