3 Sheets--Sheet 1.

A. R. STOUT.
Brick-Machines.

No. 157,704. Patented Dec. 15, 1874.

Fig. 1.

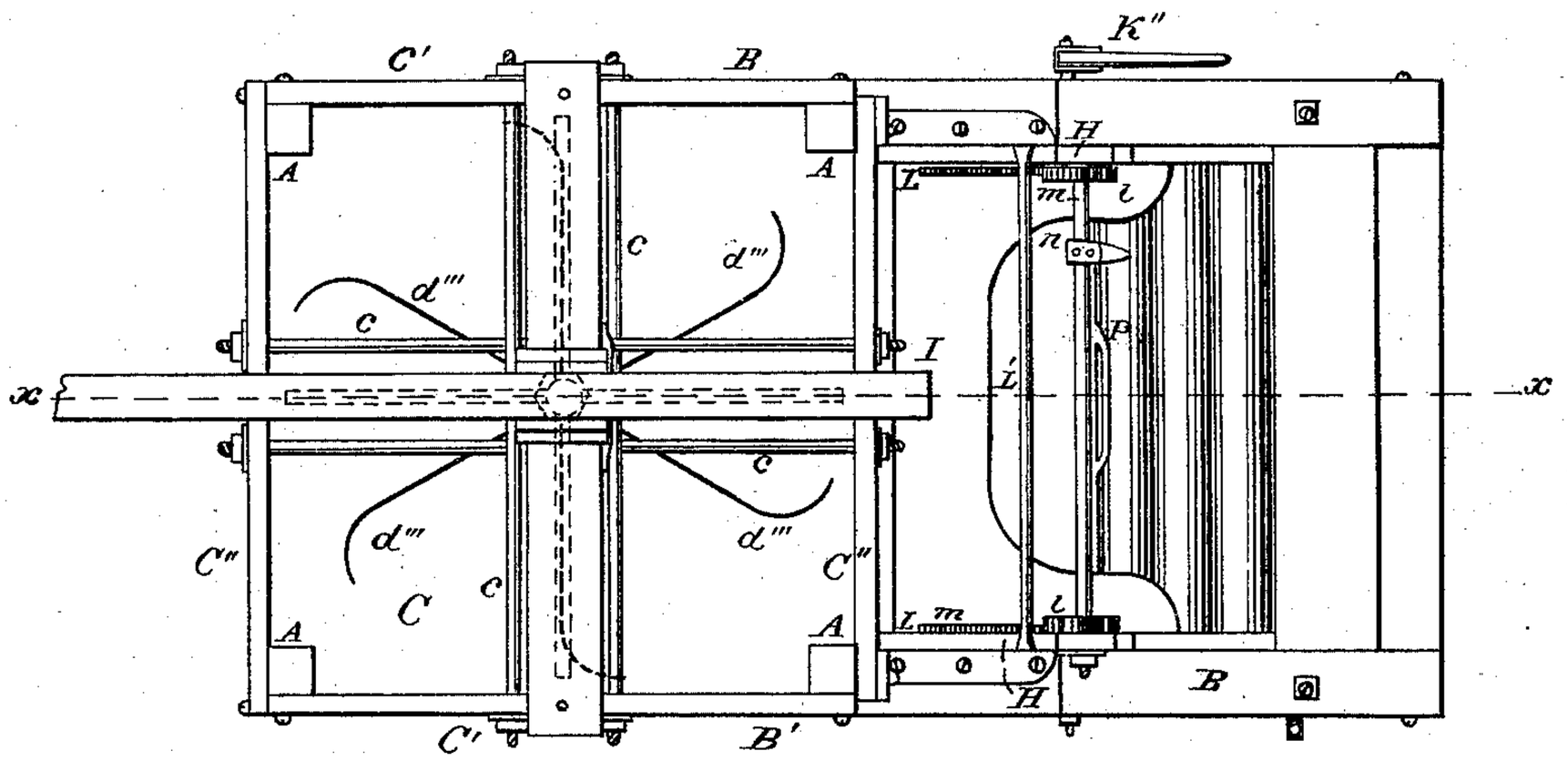

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Fig. 2.

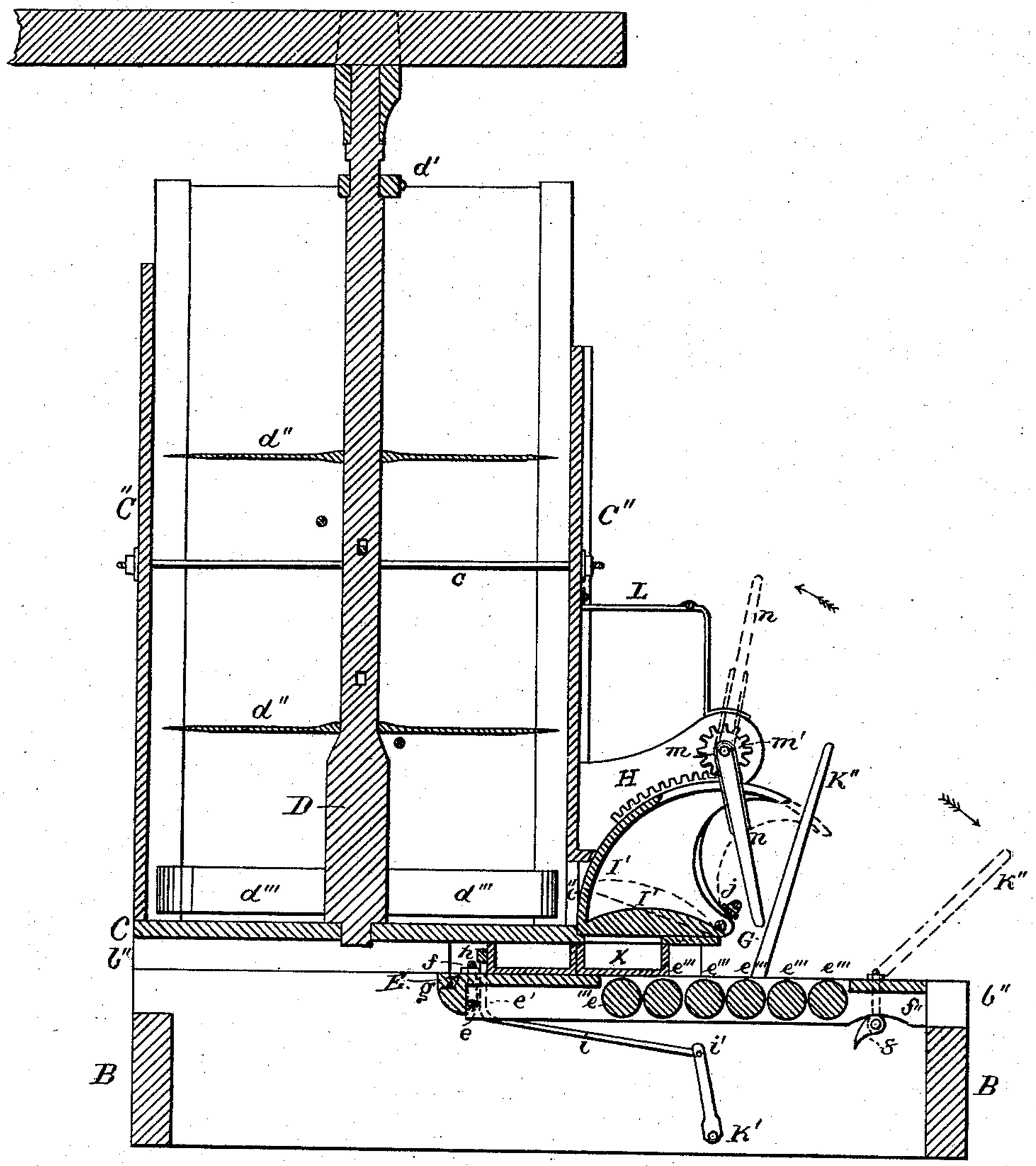

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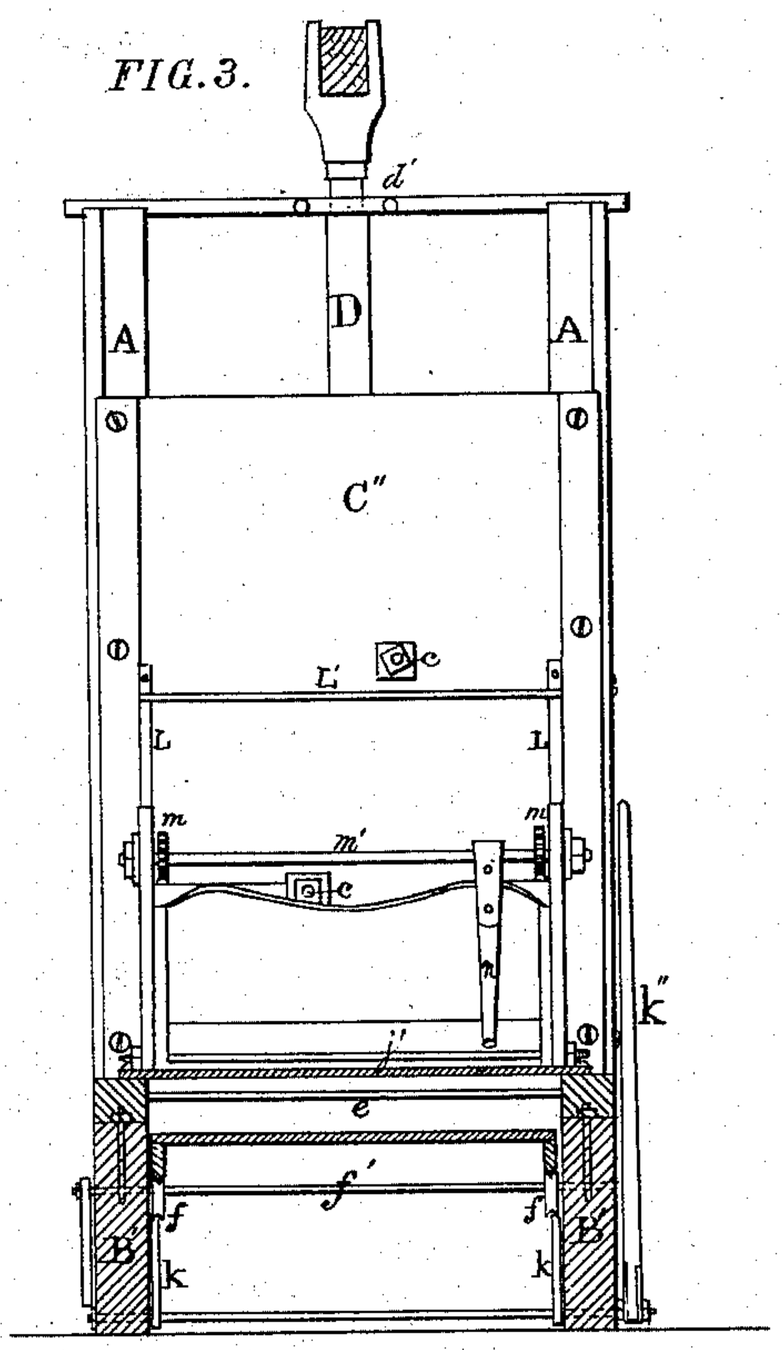
FIG. 3.



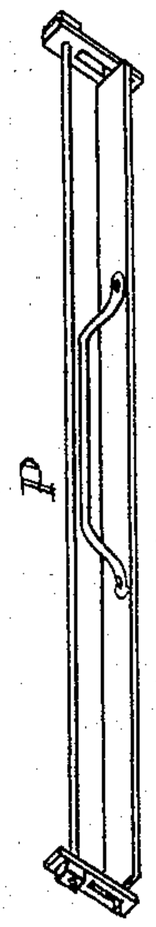


Fig. 5.

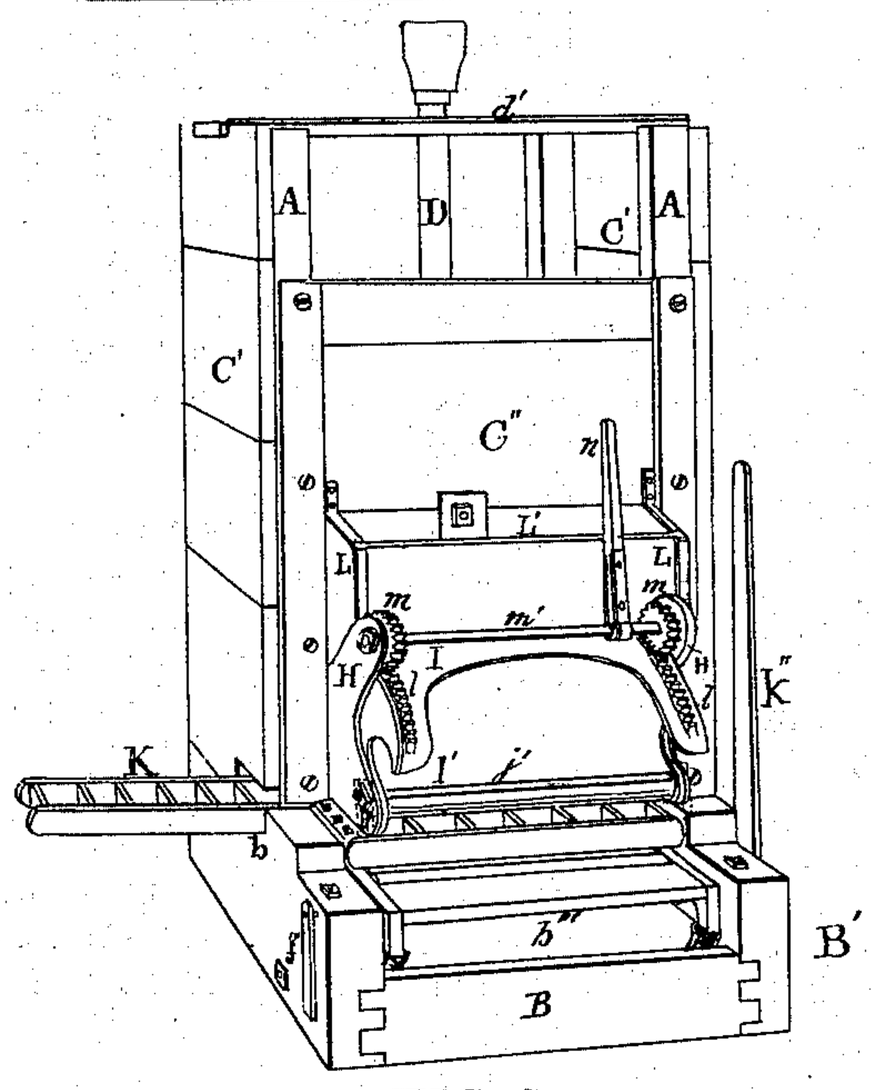


FIG. 4.

Witnesses

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UNITED STATES PATENT OFFICE.

AARON R. STOUT, OF SHAWNEETOWN, ILLINOIS.

IMPROVEMENT IN BRICK-MACHINES.

Specification forming part of Letters Patent No. **157,704**, dated December 15, 1874; application filed February 27, 1874.

To all whom it may concern:

Be it known that I, AARON R. STOUT, of Shawneetown, in the county of Gallatin and State of Illinois, have invented certain new and useful Improvements in Brick-Making Machines; and I do hereby 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to that class of machines in which the molding apparatus is attached to the side of the pug-mill, where the clay is properly tempered and fed into the molds and compressed; and consists of certain details hereafter described.

The accompanying drawings form a part of this specification, in which Figure I is a plan view of the machine. Fig. II is a vertical longitudinal central section on *x x*, Fig. I. Fig. III is a front-end view. Fig. IV is a perspective view from the front end. Fig. V is a detached view of the strike-stick.

A A A A are the posts of the frame of the pug-mill. B B B′ B′ are the base of the frame. C is the floor, and C′ C′ C″ C″ the siding. The frame is braced by cross-tie rods *c c c c*. D is the shaft, pivoted in the floor at *d*, and extending through and above the cross-beam at *d′*. It has knives *d″* for tempering the clay, which are inserted in the tenons of the shaft with a shiplap. The end pieces B B of the base are narrower than the side pieces B′ B′, which leaves an opening, *b″*, from front to rear under the floor of the mill, as shown in Figs. II and IV. A stationary adjustable table, E, extends from the front to a point beyond the opening *b*, and is pivoted by the rod *e*. This rod *e* is pivoted in an adjustable eye-bolt, *e′*. The front end of the table E rests upon the cams *f f*, which are fastened to the rod *f′*. (See Fig. III.) This rod *f′* is pivoted in eyebolts *f″*, (see Figs. IV and II,) which are adjustable by nut and screw, the same as *e′*. These cams are used to raise or lower the front of E to remove any obstruction, such as gravel, &c. In the table E are several stationary rollers, *e‴*, to facilitate the movement of the molds. Immediately in front of the pug-mill and resting upon and attached to the side pieces B′ B′ is a table, upon which are placed the molding and pressing apparatus, which consists of the mold-board G, standards H H, press I, which is pivoted on the rod *j′*, rack *l*, pinion *m*, lever *n*, and strike-stick P. (Shown in Figs. I and II and IV.) The standards are supported by braces L L and rod L′.

The press is operated by the lever *n*. Between the floor C and the table E is a cross-bar, *h*, which is operated by the compound lever *i k″*, as shown in Fig. II.

The clay having been first properly prepared is thrown into the pug-mill and is tempered by the knives *d″*, and is forced through the opening *c″* and under the press I. (See Fig. II.) The press I operated by the lever *n* forces the clay through the mold-board G into the mold K, which rests on the rollers *e‴* of the table E. An empty mold is inserted in the opening *b*. The bar *h*, operated by the lever *i k″*, forces the empty mold forward, which shoves the filled mold out of the way. The same movement causes the filled mold to pass under the strike-stick, which effectually removes any superfluous clay.

The operation of molding bricks is simple and economical, as only one person is required to operate the levers *n* and *k″*.

Having thus fully described my invention, I claim—

1. The adjustable table E, mold K, and bar *h*, in combination with mold-board G and press I, constructed and operating substantially as and for the purpose set forth.

2. The combination of the pug-mill, constructed as described, adjustable table E, mold K, bar *h*, compound lever *i k″*, mold-board G, press I, and strike-stick P, all constructed substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 23d day of December, 1873.

AARON R. STOUT.

Witnesses:

I. MCKEE PEEPLES,

L. H. ADAMS.