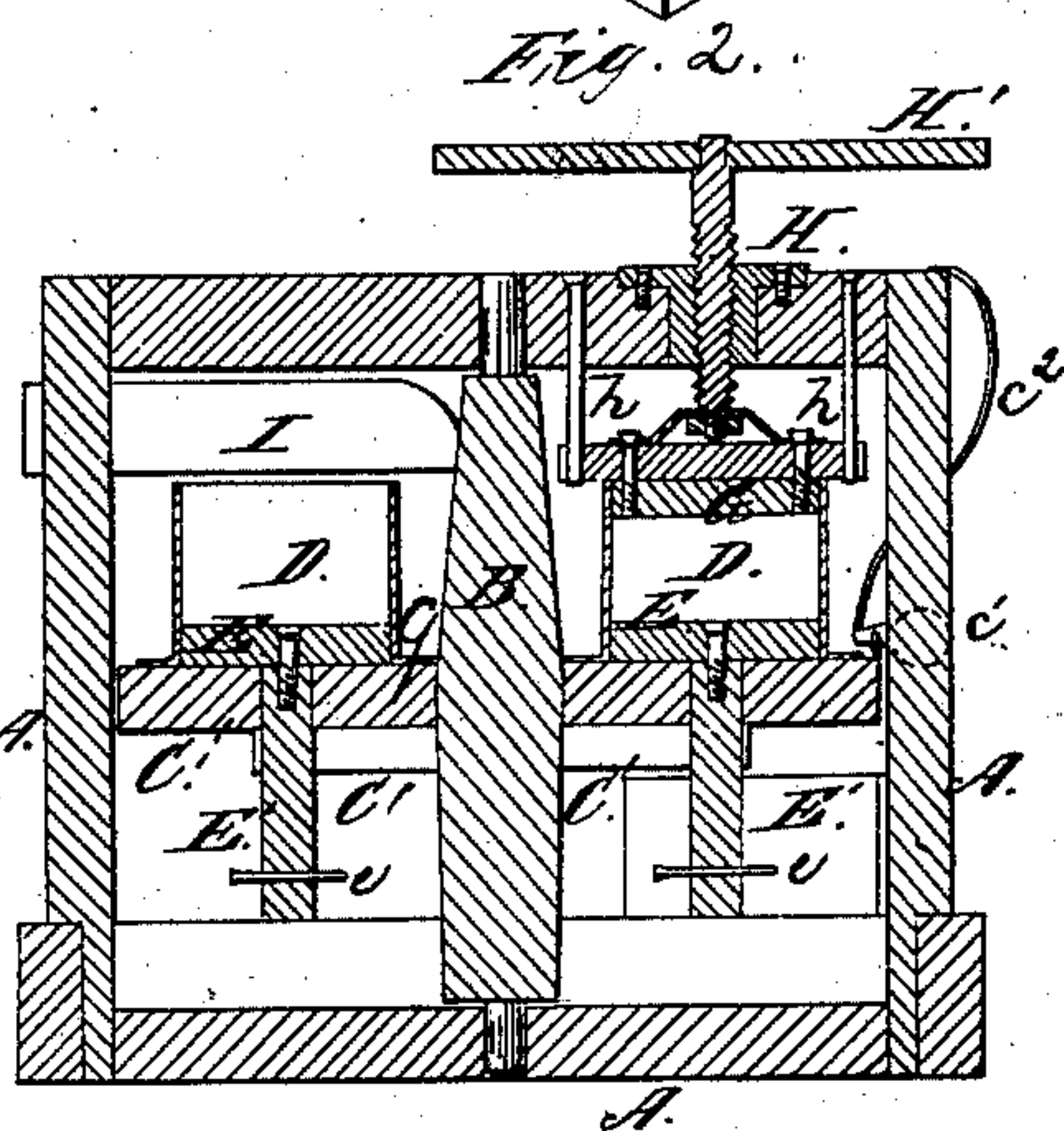
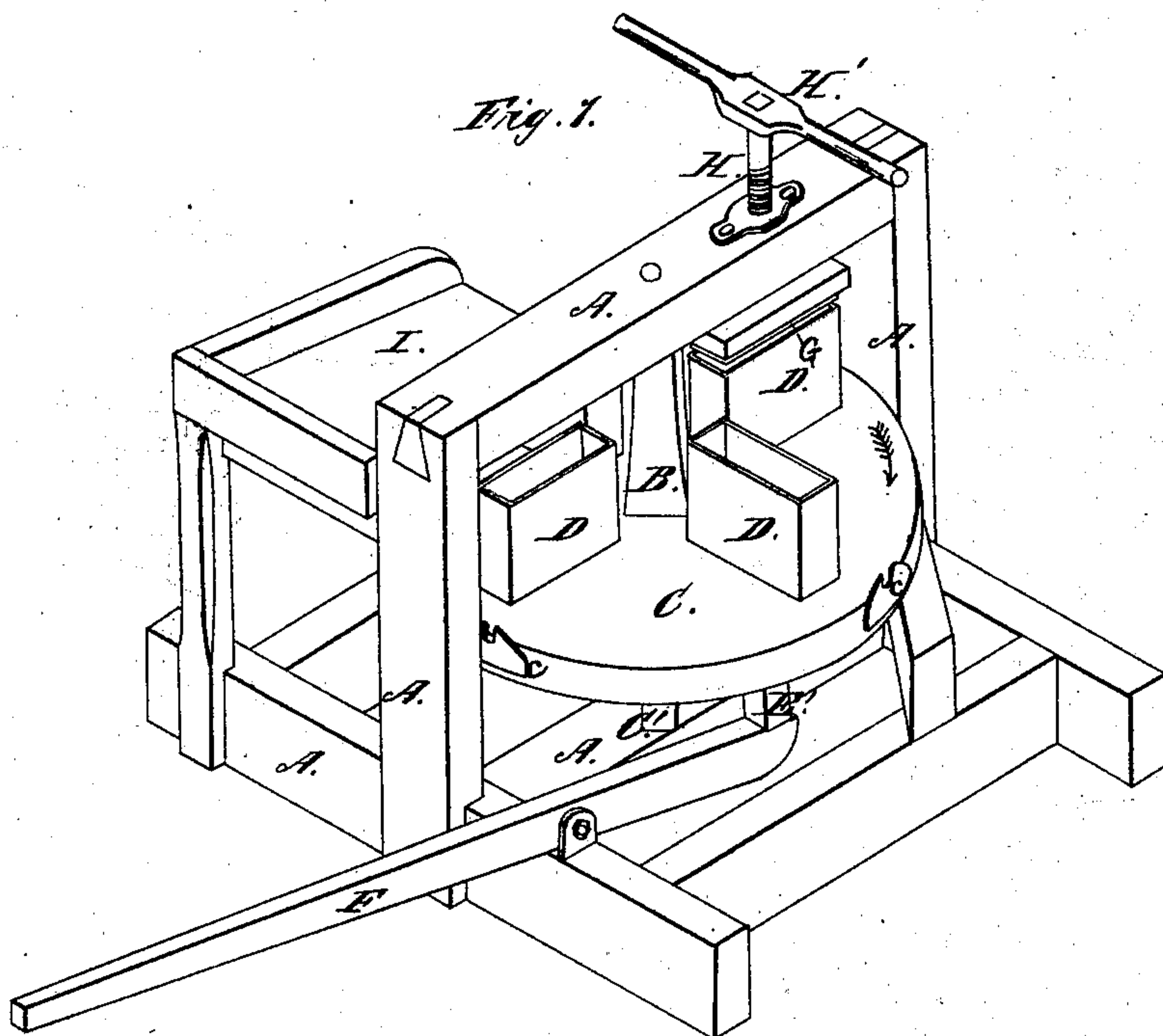


B. J. McAfee,
Brick Machine.

N^o 78,221.

Patented May 26, 1868.



Witnesses:
J. Snowden Bell,
J. W. Miller.

Inventor:
B. J. McAfee
J. L. Alexander
Atty.

United States Patent Office.

B. J. McAFEE. OF DELPHI, INDIANA.

Letters Patent No. 78,221, dated Mar 26, 1868.

IMPROVED BRICK-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, B. J. McAFEE, of Delphi, in the county of Carroll, and State of Indiana, have invented certain new and useful Improvements in Brick-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification, in which—

Figure 1 represents a view in perspective of my improved concrete-brick press, and

Figure 2 a vertical section of the same.

The object of my invention is to provide an apparatus for conveniently and rapidly pressing concrete into bricks, and to this end my improvement consists,

First, in providing a rotary mould-table, so arranged as to present the moulds successively to the former, after they have been filled with concrete, and to retire them after the brick has been pressed.

Second, in combining a screw and former, working in the frame with the rotary mould-table, so as to press the bricks as they are successively presented to it.

Third, in providing the moulds with movable plungers, operated by a lever for the purpose of expelling the bricks after they have been pressed.

In the accompanying drawings, A represents the frame of the brick-press. A substantial shaft, B, revolves vertically in bearings in this frame, and has secured upon it the mould-table C, which turns with it. Any convenient number of moulds, D D, are fastened to the top of the mould-table. They are made in the form desired for the brick, and of such depth that when the former which presses the brick is at the bottom of its stroke, the space between it and the plunger, which forms the bottom of the mould, shall be equal to the width of the brick. The width may be diminished by putting pieces under the bottom of the plungers. Each mould is provided with a plunger, E, which rests upon the mould-table, and forms the face upon which the brick is pressed. The plungers are raised to expel the bricks after being pressed by the lever F acting upon the stems E', attached to the plungers, and passing through the table. They are prevented from rising too far by the stops *e*. The screw H works in a nut in the frame, and is operated by the lever H'. The former, G, which presses the bricks, is attached to its lower end, and has its vertical motion directed by the guides *h*. I represents the spout, through which the concrete is fed to the moulds, and *c c'* catches, in which the stop *c'* engages for the purpose of holding the table stationary while a brick is being pressed. The spring *c''* holds the stop in the catch. The table C has arms C' upon its lower side, which support and strengthen it, and may be furnished with friction-rollers upon their ends, bearing upon the frame, for the purpose of facilitating the rotation of the table.

The operation of the press is as follows: The mould-table being in the position shown by the drawings, one of the moulds will be immediately beneath the mouth of the spout I, from which it is filled with concrete. The table is then rotated in the direction of the arrow, which brings the mould just filled beneath the former, G, in proper position for pressing the brick, and presents another mould to the spout I to be filled. It is held in this position by the stop *c'* engaging in one of the catches, while the brick is pressed by screwing down the former, G, upon the mould by the lever H'. The table is then further rotated and the operation repeated, the mould containing the brick pressed, being relieved of it by raising the plunger by the lever F, after which the plunger drops, and the mould is in readiness to receive a fresh charge of concrete.

Claim.

The combination of the frame A and table C with the moulds D D, spout I, former G, screw H, plungers E, and lever F, all arranged and operating substantially as and for the purpose described.

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

B. J. McAFEE.

Witnesses:

WM. BARNETT,
D. R. HURLEY.