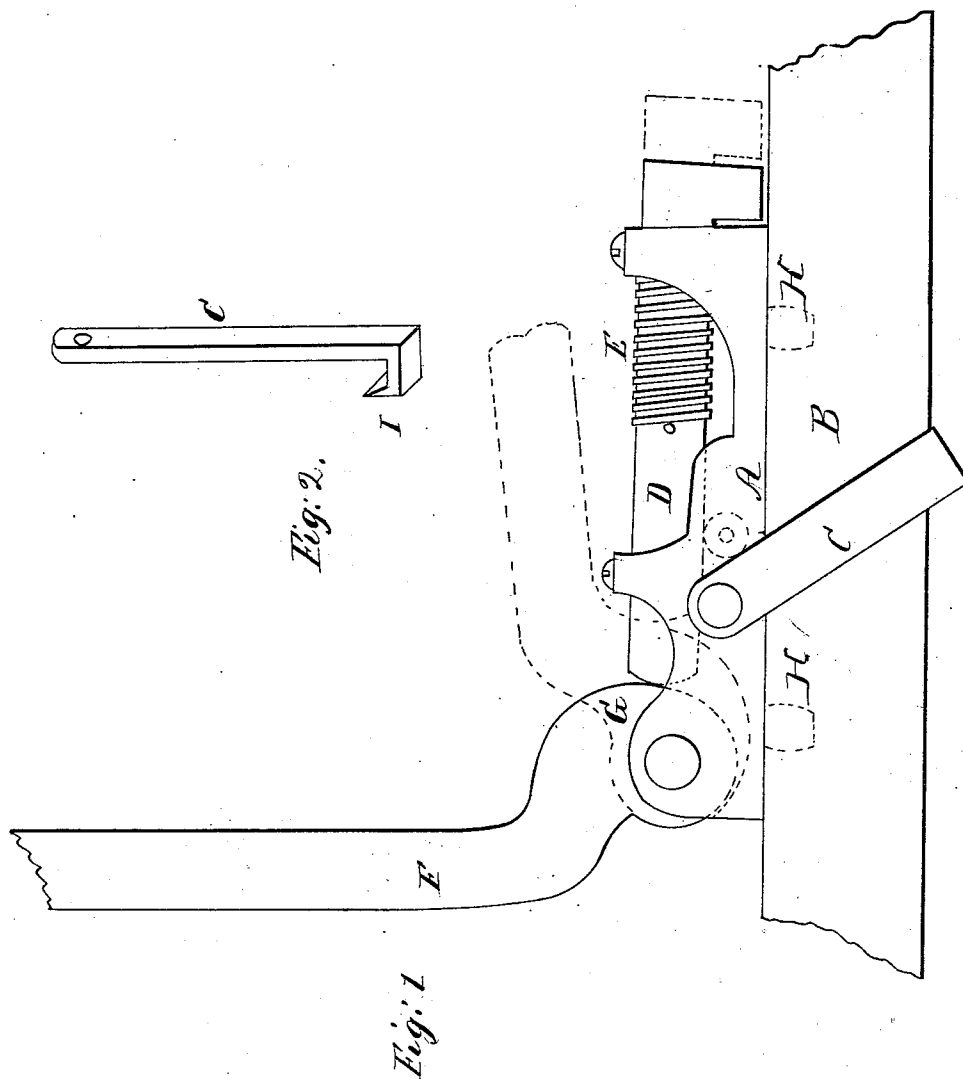


J. H. Ferreira,
Floor Clamp.
N^o 82,700. Patented Oct. 6, 1868.



Witnesses,
Amos Harris
J. M. Clark

Inventor,
Jos. H. Ferreira

United States Patent Office.

JOSEPH H. FERREIRA, OF NEWARK, NEW JERSEY.

Letters Patent No. 82,700, dated October 6, 1868.

IMPROVEMENT IN FLOOR-CLAMPS.

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, JOSEPH H. FERREIRA, of Newark, in the county of Essex, and State of New Jersey, have invented a new and improved Floor-Clamp; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention is a simple device for clamping purposes, and may be used as a floor-clamp, or applied to a work-bench, and consists in certain parts, which are adapted to operate in the manner as will be hereinafter more fully described.

In the description of my invention, A is a bed-piece, resting on a beam, B, and held in its place, while in action, by a shackle, C, one on each side of the beam.

Figure 2 shows the shackle separately.

D is a bolt, sliding in the bed-piece, and reacted by the spiral spring C. The bolt is thrown forward against the work by the lever F and the cam G, which becomes a simple and very efficient power for the use.

The dotted lines show the bolt thrown forward against the work.

This clamp is capable of being used on a carpenter's bench, by having two or more pins, H H, underneath the bed, and going into the bench.

The shackle catches under the beam, and, when the lever is thrown forward, it is made tight, allowing any required pressure on the lever; but, by sliding the clamp forward, the shackle is loosened, and the whole is taken off; therefore,

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination, in a clamping-device, of cam G, plunger D, spring E, and shackle C, or pins H, operating substantially as and for the purpose described.

JOS. H. FERREIRA.

Witnesses:

HORACE HARRIS,
S. W. CLARK.