(No Model.)

H. A. PICKARD.

FLOOR CLAMP.

No. 306,424. Patented Oct. 14, 1884.

Fig. 1.

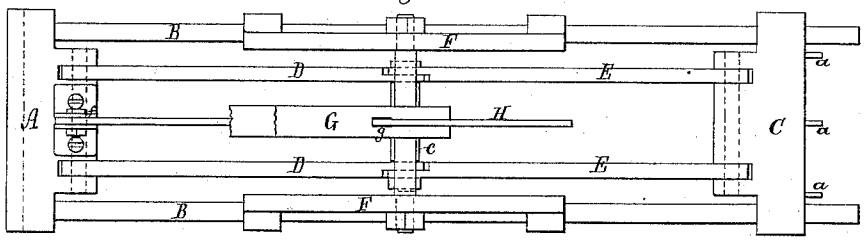


Fig. 2.

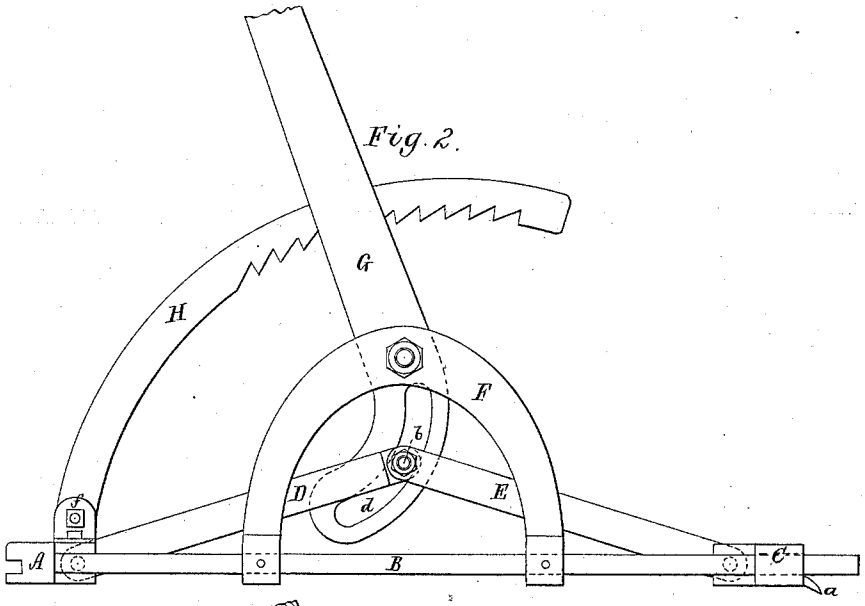
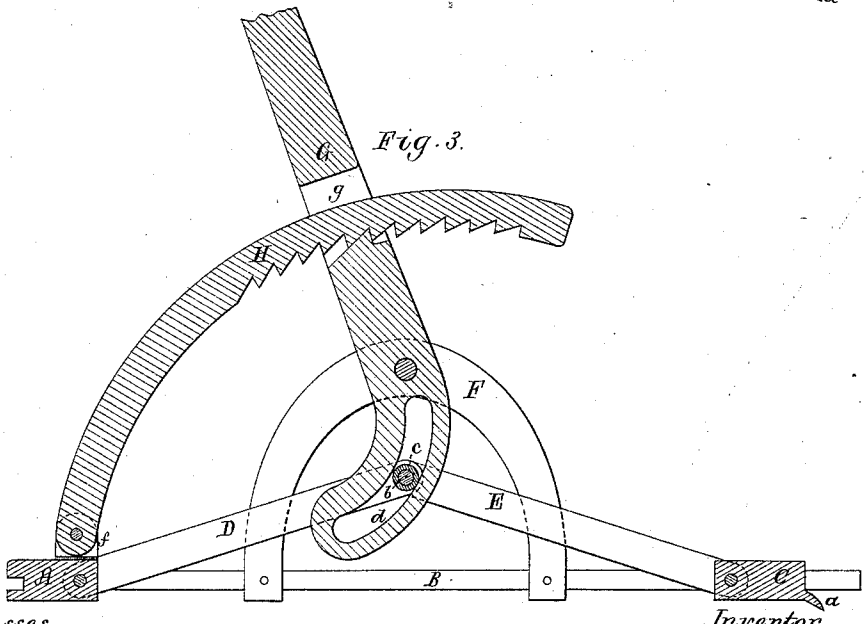


Fig. 3.



Witnesses.
S. N. Pike
E. B. Pratt

Inventor.
Henry Augustus Pickard
by R. H. Eddy atty.

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

HENRY AUGUSTUS PICKARD, OF DANVERS, MASS., ASSIGNOR, BY MESNE ASSIGNMENTS, TO HIMSELF AND CHARLES N. PERLEY, OF SAME PLACE.

FLOOR-CLAMP.

SPECIFICATION forming part of Letters Patent No. 306,424, dated October 14, 1884.

Application filed September 6, 1884. (No model.)

To all whom it may concern:

Be it known that I, HENRY AUGUSTUS PICKARD, of Danvers, in the county of Essex, of the Commonwealth of Massachusetts, have invented a new and useful Improvement in Floor-Clamps; and I do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view, Fig. 2 a side elevation, and Fig. 3 a longitudinal and median section, of a floor-clamp containing my invention, the nature of which is defined in the claim hereinafter presented.

In some respects the said floor-clamp is like that described in the United States Patent No. 299,220, though differing therefrom materially, as it has two sets of toggles separate from an operative lever, which, fulcrumed to standards, has in its shorter arm a curved slot to receive the median joint-pin or roller of the toggles. Furthermore, the lever has its curved catch-rack attached to and extended from the floor-board presser, and such lever has its longer arm projecting toward and over such presser, whereby a person while operating the lever is able to stand on the floor-board in order to prevent it from being forced upward off the under floor.

In the drawings, A denotes the floor-board presser or block, which is grooved in its front edge to receive, when against the board, the tongue thereof. Two rods, B B, extend rearward from the presser A parallel to each other, and go loosely through an abutment-block, C, provided with a series of curved points or spurs, *a a a*, to enter the lower boarding of the floor. Each spur is extended rearward and downward from the lower part of the rear edge of the said block C. A set or pair of toggles, D D, is jointed to the presser, another such set, E E, being jointed to the abutment-block, the toggles of each set being jointed at their inner ends to those of the other, and having on and concentric with their common joint-pin *b* a friction-roller, *c*, to revolve on such pin. Each of the rods B B extends through one of two arched standards, F F, such standards being permanently fastened to the rod. Fulcrumed to the said two standards, and arranged between them, is a lever, G, whose curved or shorter arm has a long curved slot, *d*, through which the friction-roller *e* passes. A curved and toothed rack, H, hinged to a standard, *f*, fixed on the presser, extends through a slot, *g*, in the longer arm of the said lever, such arm being projected toward and over the presser in manner as represented. The rack serves to hold the said arm at any desirable inclination.

In using the above-described floor-clamp, the presser is by the workman to be placed against the tongued edge of the flooring-board to be "forced up," such workman standing or having one foot on the said board. Next, the workman is to raise the longer arm of the lever, so as to cause the toggles to move upward and draw the toothed abutment toward the presser. Next, the spurs or teeth of the abutment are to be forced into the floor, after which the workman, standing or having one foot on the floor-board to be forced up, is to raise the rack out of engagement with the lever and draw the longer arm of the lever toward him. In so doing the presser will be forced forward by the toggles, and the board will be "set up," and may be held so set by the curved rack catching upon the lever.

I do not herein claim a floor-clamp having its toothed block connected to a lever by links, and such lever jointed at its lower end to a presser or block provided with rods extending from it through the toothed block, all being as represented in the hereinbefore-mentioned patent.

I claim—

The combination of the presser, its rods, the toothed block to slide on such rods, the toggles jointed together and to the presser and toothed block, the standards erected on the rods, the slotted lever fulcrumed to the standards and applied, as described, to the toggles, and the curved rack connected to the presser and extended through the longer arm of the lever, all being arranged substantially and to operate as and for the purpose set forth.

HENRY AUGUSTUS PICKARD.

Witnesses:
EDWARD J. JONES,
ANNIE M. COUGHLIN.