

(Model.)

E. W. HOLT.

FLOOR CLAMP.

No. 307,195.

Patented Oct. 28, 1884.

Fig. 1.

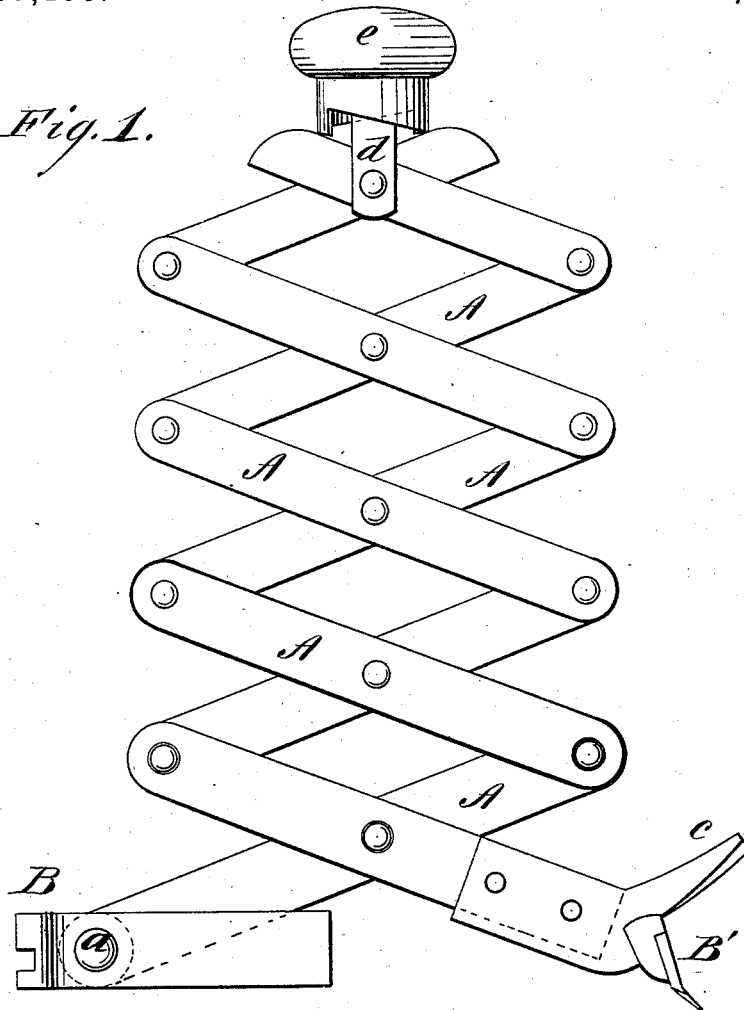


Fig. 2.

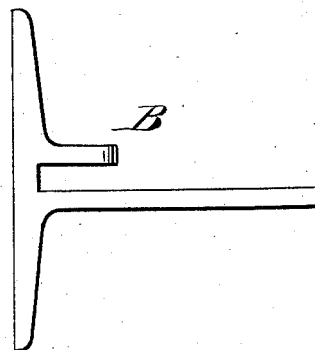
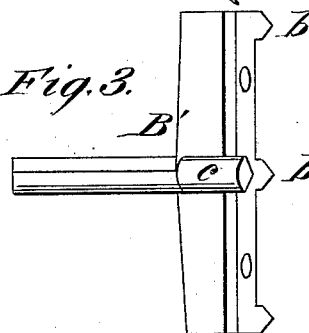


Fig. 3.



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EDWARD W. HOLT, OF CORINNA, MAINE.

FLOOR-CLAMP.

SPECIFICATION forming part of Letters Patent No. 307,195, dated October 28, 1884.

Application filed July 24, 1884. (Model.)

To all whom it may concern:

Be it known that I, EDWARD W. HOLT, of Corinna, in the county of Penobscot and State of Maine, have invented a new and Improved Floor-Clamp, of which the following is a full, clear, and exact description.

My improvements relate to clamps used for tightening and holding floor and ceiling boards in place for nailing; and the invention consists in a clamp operating by means of toggle-bars or bars arranged on the lazy-tongs principle, as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the clamp, and Figs. 2 and 3 are plan views of the foot-pieces.

A A are bars jointed together in a series, so as to operate on the lazy-tongs principle. The two bars A at the bottom are longer than the others, and to their outer ends are attached the foot-pieces B B', that project sidewise at right angles to the bars. The piece B is hung on a pivot-pin, *a*, and may have either a flat face or, as shown, a grooved face for fitting tongued and grooved boarding. The piece B' is rigidly attached, and has spurs *b* and a horn, *c*, for use in pressing the spurs into the floor.

To the top bars A is attached a pin, *d*, carrying a knob, *e*, which is fitted to turn on the pin, and the knob is formed with inclines or cams for use in dogging the clamp.

In operation the foot-piece B is placed against the edge of the boarding, the toggle-bars A drawn upward, and the spurs on foot-piece B' forced into the floor by the operator placing his foot on the horn *c*. Pressure is then to be applied to the knob *e*, to close the toggles, and that causes the separation of the foot-pieces with great power. By turning

knob *e* until the cam edges bear on the ends of the top bars the clamp is retained and prevented from slacking up while the boards are being nailed.

This clamp is very substantial and durable, and great power can be exerted with it.

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

1. In a floor-clamp, the lazy-tongs with the bottom bars provided, one with a grooved clamp bar or foot and the other with a spur, substantially as and for the purpose set forth.

2. In a floor-clamp, the lazy-tongs with their bottom or innermost bars provided with clamps and their outermost bars provided with a cam-knob, to secure said latter bars in a locked position, substantially as and for the purpose set forth.

3. In a floor-clamp, the lazy-tongs with their innermost or bottom bars provided, one with a spur and the other with a grooved clamp bar or foot pivotally connected thereto, substantially as and for the purpose set forth.

4. In a floor-clamp, the lazy-tongs with their innermost or bottom bars provided, one with a spur and the other with a grooved clamp bar or foot, and their outermost bars provided with a cam-knob, to secure said latter bars in a locked position, substantially as and for the purpose set forth.

5. In a floor-clamp, the lazy-tongs with their innermost or bottom bars provided, one with a grooved bar or foot and the other with a foot-bar having spurs and a horn, and the outermost bars provided with a pin upon which turns a cam-knob or dog, to secure said latter bars in a locked position, substantially as and for the purpose set forth.

EDWARD W. HOLT.

Witnesses:

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