

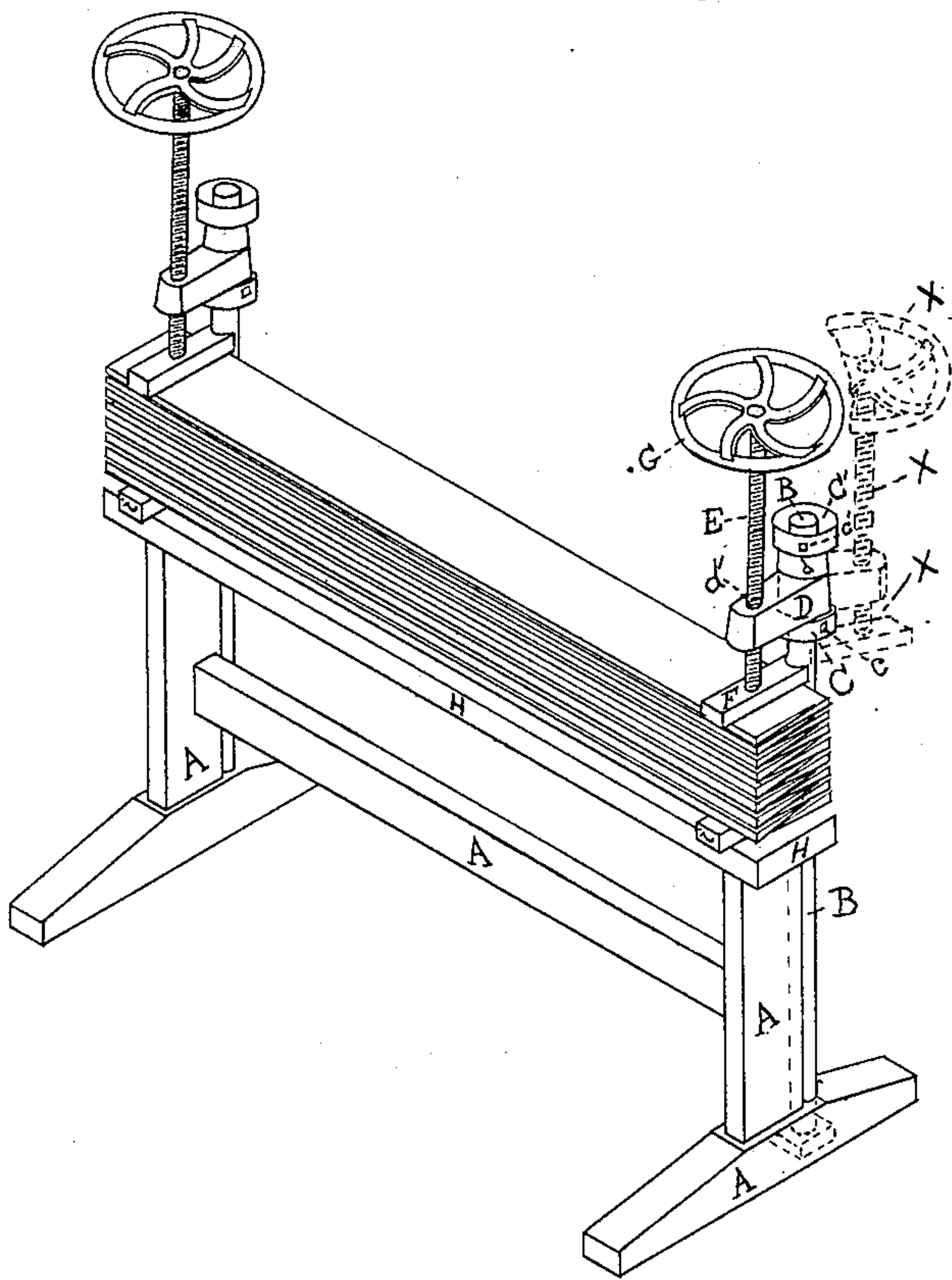
(No Model.)

F. P. HALL & J. H. SMITH.

SCREW PRESS.

No. 335,447.

Patented Feb. 2, 1886.



Witnesses

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# UNITED STATES PATENT OFFICE.

FRANCIS P. HALL AND JAMES H. SMITH, OF BREWER, MAINE.

## SCREW-PRESS.

SPECIFICATION forming part of Letters Patent No. 335,447, dated February 2, 1886.

Application filed December 31, 1885. Serial No. 187,996. (No model.)

*To all whom it may concern:*

Be it known that we, FRANCIS P. HALL and JAMES H. SMITH, citizens of the United States, residing at Brewer, in the county of Penobscot and State of Maine, have invented a new and useful Screw-Press; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to an improved screw-press, more especially designed for pressing clapboards, and is illustrated in the accompanying drawing, which shows an isometric view.

When being bunched, clapboards are placed one upon another, the thin edge of one upon the thick edge of the next, until the requisite number is reached, when they are pressed together and secured at each end with rope yarn or rigging.

The object of our invention is to provide a screw-press more particularly adapted, as before stated, for use upon bunches of clapboards, (though not necessarily restricted to that application alone,) whereby the bunches may be quickly and effectively pressed upon the bench, where they are bunched, held while being tied up, and easily removed when the operation is completed. We use a pair of these presses in the operation of pressing a single bunch of clapboards; but as the two are alike we describe only one of them. The clapboards are bunched upon a bench conveniently arranged and shaped for the purpose. Behind the frame A of the bench, and preferably secured thereto, is a standard, cheek, or upright, B, having the portion which projects above the bench cylindrical, and its base firmly secured to prevent its rising under pressure. Upon the cylindrical standard we fit the collars C C', movable vertically upon said standard, and adjustable thereon by set screws c c, or other equivalent device. In place of the usual head of a screw-press, we use the arm D, terminating at its inner extremity in a box or hub, d, and having at its outer extremity the screw-hole d'. Between the collars C C' the box or hub d is swiveled upon the standard B. It is

supported from below by the collar C, adjusted at any desired position upon the standard, and secured thereto by the set-screw c, and is prevented from rising upward on the standard by the collar C', secured by the set-screw c'. From the hub d the arm D projects outwardly, having near its external end a screw-hole, d', in which works the screw E, terminating at its lower end in the follower F, and at its upper end in the wheel or lever G. The top H of the bench on which the clapboards are bunched forms the bed-plate of the press, although cleats i may be superimposed upon the bed-plate to raise the bunch of clapboards from the bed-plate and afford a space for inserting beneath the bunch the rigging with which the clapboards are tied together. Upon the bed-plate the clapboards are placed, and the lever G being operated the follower F descends, and the pressing is performed. When the pressing and tying are completed, the lever G is reversed, the follower F rises, and the arm D, carrying the screw E and follower F, is swung upon the standard B around behind the bench, as shown by the dotted lines at x, and the pressed and bound bunch may then be removed from the bed-plate. The arm D may be adjusted vertically upon the standard B, as before stated, to provide for cases where the vertical movement of the screw may be insufficient.

As bunches of clapboards are tied at both ends, we use two presses, one near each end of the bench.

The essential features of our improvement consist in the substitution of the arm D for the usual head of a press and in our manner of swiveling said arm upon the standard B, whereby the follower is swung clear of the pressed bunch and a new lot of clapboards introduced into the press in a very convenient and easy manner.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

1. In a screw-press, the arm D, formed at its outer extremity with a screw-hole for the reception of the screw of the press, and at its inner extremity with a box or hub adapt-



ed to fit and swivel upon the standard, cheek, or upright of the press, substantially as described.

2. In a screw-press, the combination of the  
5 frame A, standard B, rigidly secured to said frame, arm D, swiveled upon said standard, collars C C', and means of adjusting the same upon said standard, screw E, lever G,

follower F, and bed-plate H, substantially as described.

FRANCIS P. HALL.  
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Witnesses:

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