

(No Model.)

A. B. PATTEN & F. E. SPRAGUE.

FLOOR BOARD CLAMP.

No. 311,029.

Patented Jan. 20, 1885.

Fig. 1.

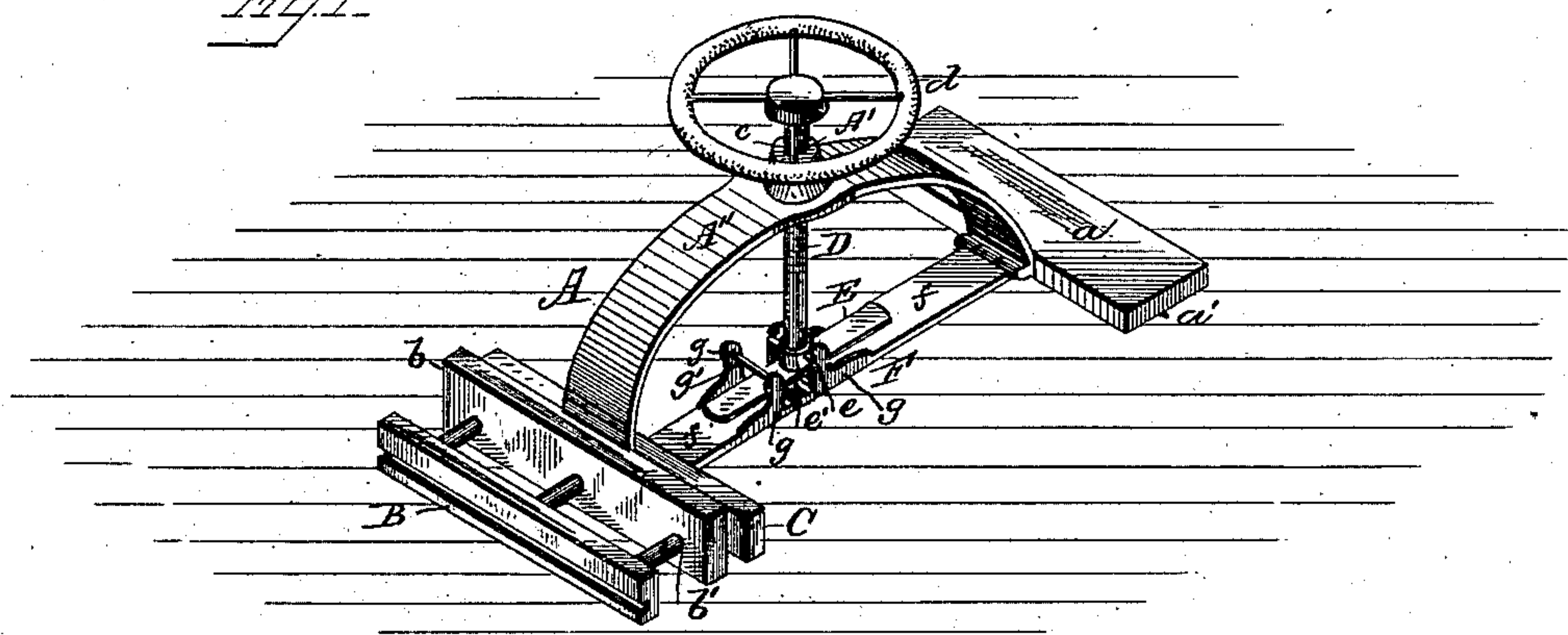


Fig. 2.

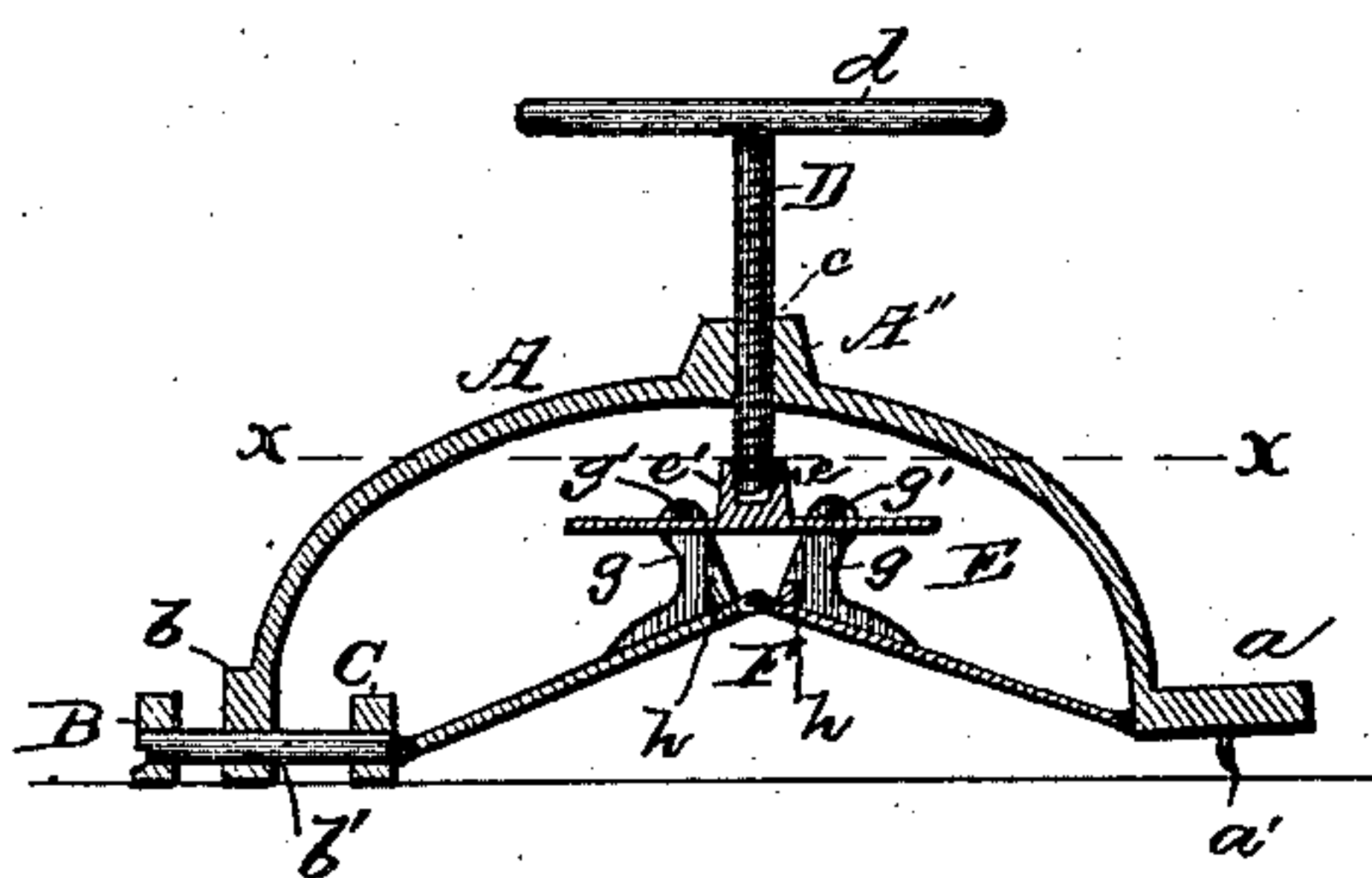


Fig. 3.

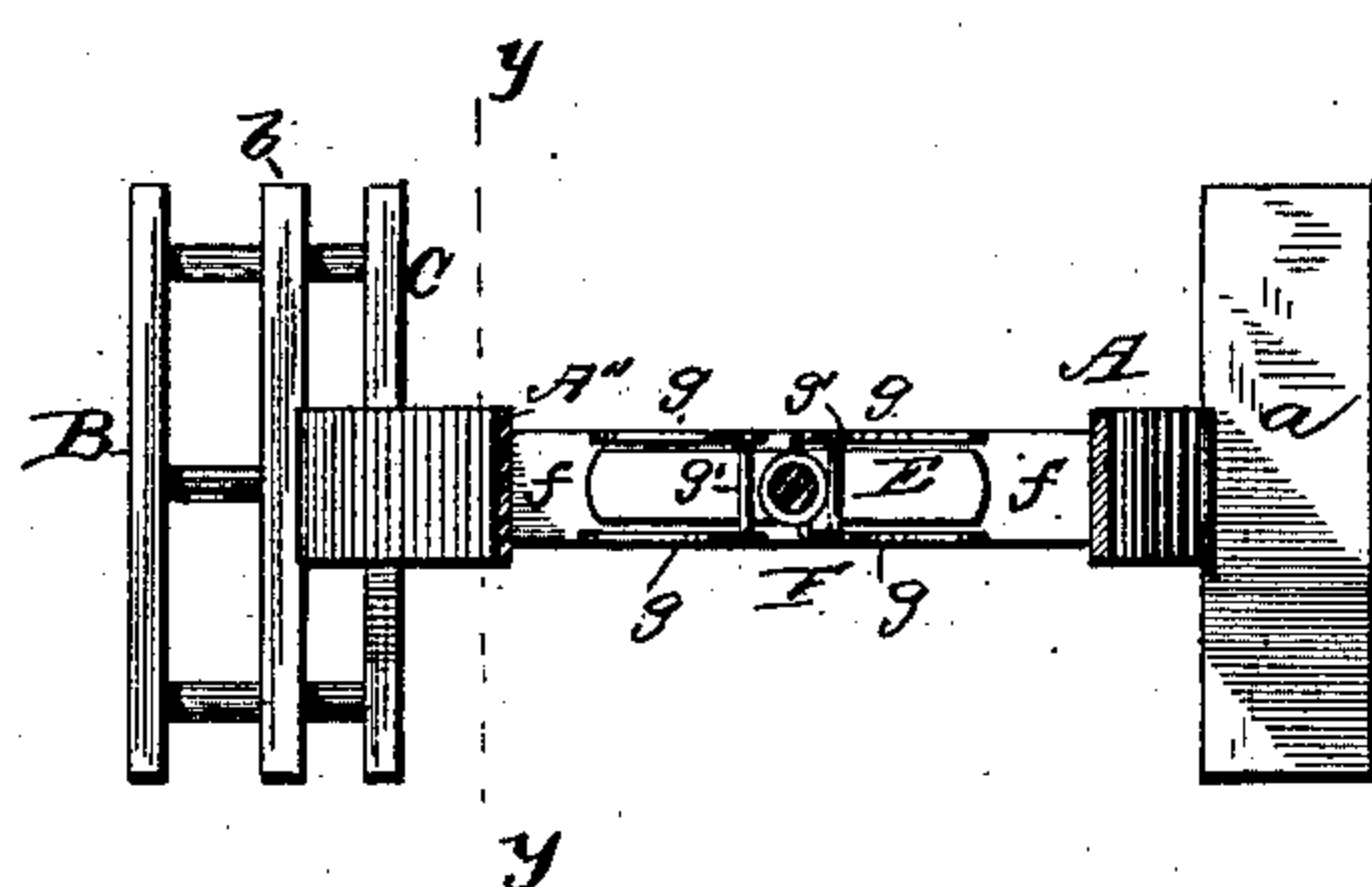
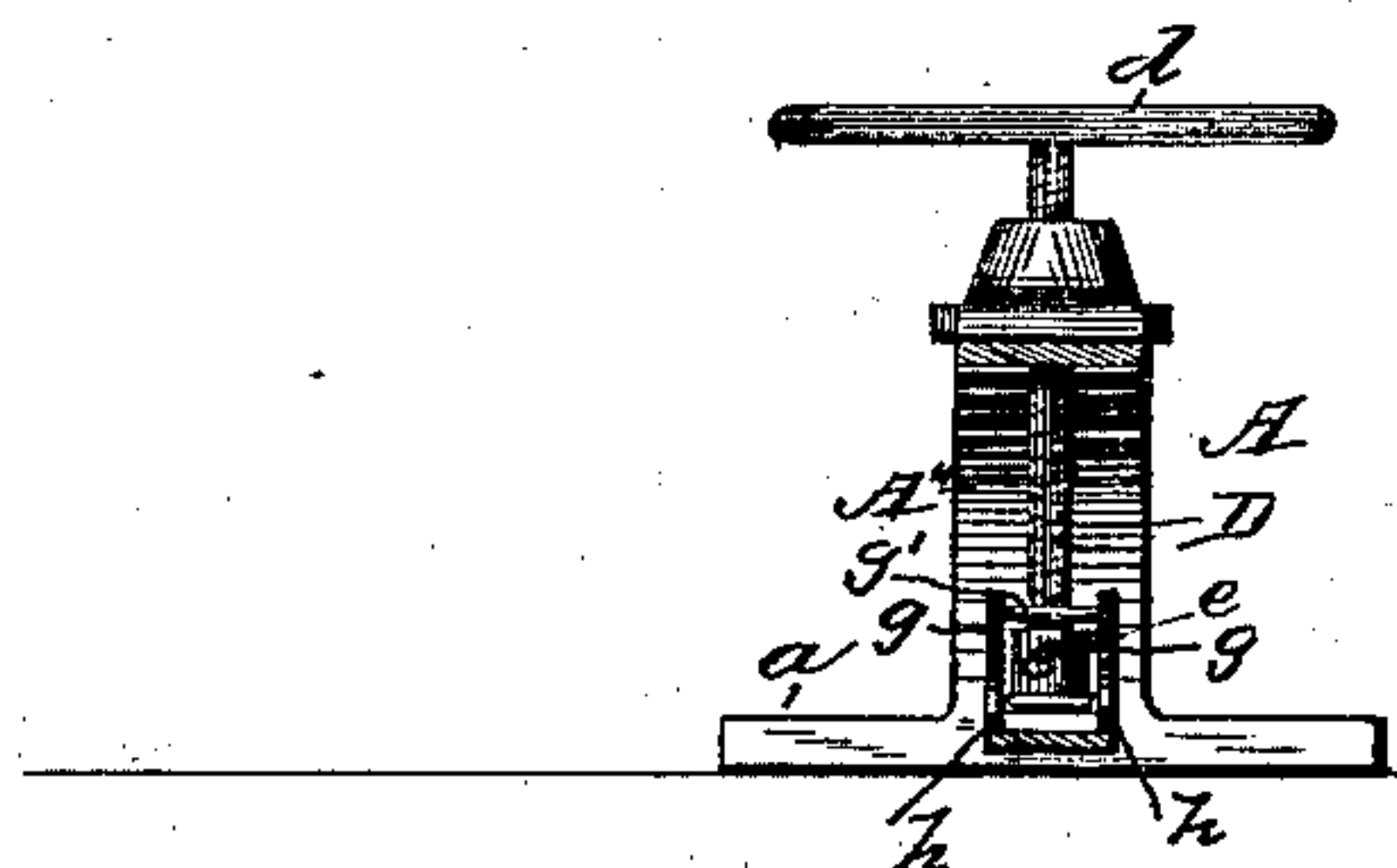


Fig. 4.



WITNESSES

F. L. Curand.

E. M. Johnson

Albert B. Patten

Frederick E. Sprague,
INVENTORS,

[Signature]

Attorney

UNITED STATES PATENT OFFICE.

ALBERT B. PATTEN AND FREDERICK E. SPRAGUE, OF CORINNA, MAINE.

FLOOR-BOARD CLAMP.

SPECIFICATION forming part of Letters Patent No. 311,029, dated January 20, 1885.

Application filed November 13, 1884. (No model.)

To all whom it may concern:

Be it known that we, ALBERT B. PATTEN and FREDERICK E. SPRAGUE, citizens of the United States of America, residing at Corinna, in the county of Penobscot and State of Maine, have invented certain new and useful Improvements in Floor-Board Clamps; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Our invention relates to an improved device for setting floor-boards and holding the same in place while being nailed in position; and it consists in the construction and combination of the parts, as will be hereinafter fully set forth, and pointed out in the claims.

In the accompanying drawings, which illustrate our invention, Figure 1 is a perspective view; Fig. 2, a transverse section; Fig. 3, a section on the line *xx* of Fig. 2, and Fig. 4 a sectional view taken on the line *yy* of Fig. 3.

A represents a metallic frame, which consists, essentially, of an arched plate, which has rigidly attached at one end a flat bar, *a*, which extends horizontally from the arch and projects on each side of the same, said bar being provided on its under side with teeth or pins *a'*. The opposite end of the arch is provided with a vertical bar, *b*, which is provided with perforations *b'*, as shown, through which pass rods which are attached to the presser-bar B and to the bar C, attached to the toggle-joint, as will be hereinafter fully set forth. The arched plate A' is provided, centrally, with a portion, A', of increased thickness, which is provided with a perforation, *c*, having a female screw-thread, through which perforation passes a screw-threaded rod, D, which has attached at its upper end a hand-wheel, *d*. The lower end of the screw-threaded rod D is recessed circumferentially, and with said recess engages a pin, *e*, which passes through the upper part of a socket, *e'*, attached to the plate E, which plate extends on each side of the socket, as shown.

Hinged to the lower inner end of the arch A' adjacent to the bar *a* is the member *f* of the toggle-joint F, the opposite member, *f'*, of this toggle-joint being hinged to the central portion of the bar C. These members *ff'* of the toggle-joint are provided at their ends adjacent to where they are hinged together with upwardly-projecting ears *g*, which ears project from the edges of the bars, and they are provided at their upper ends with transverse pins or rods *g'*, under which the plate E is located. The members of the toggle-joint between the ears and adjacent to the hinge are provided with upwardly-projecting portions *h*, which are rounded on their upper surface, and against which the lower edge of the plate E will abut when the toggle-joint is being depressed.

It will be readily seen from the construction hereinbefore described that when the screw-threaded rod is turned so as to raise the plate E the same will engage with the pins or rods *g'*, thus elevating the toggle joint and retracting the presser-foot B.

When it is desired to force the presser-foot against the board, the screw-threaded rod is turned so that the plate E will contact with the projections *h* on the members of the toggle-joint, and as said toggle-joint is depressed the presser-bar B will be forced outwardly, so as to bring the board in position.

We claim—

1. In a device for tightening floor-boards, constructed substantially as shown and described, a toggle-joint, F, hinged at one end to the frame, the members thereof being provided with upwardly-projecting ears and cross-bars *g'*, in combination with a screw-threaded rod having the plate E attached thereto, the parts being organized substantially as shown, and for the purpose set forth.

2. In a device for tightening floor-boards, the arched frame having a horizontal end with projecting pins and a vertical end with perforations, said arch being provided centrally with a screw-threaded rod having at one end a hand-wheel and at its opposite end a socketed plate, E, in combination with a toggle-joint hinged to the inner side of the end of the arched frame, and provided centrally

with upwardly-projecting ears having trans-
verse bars g' and projections h h , the free
end of said toggle-joint being attached to a
transverse bar having rods which pass through
5 the perforations b , and are attached at their
outer ends to the pressing-bar, the parts be-
ing organized substantially as shown, and for
the purpose set forth.

In testimony whereof we affix our signatures
in presence of two witnesses.

ALBERT B. PATTEN.
FREDERICK E. SPRAGUE.

Witnesses:

F. D. MEIGS,
P. L. LOWELL.