

No. 677,066.

Patented June 25, 1901.

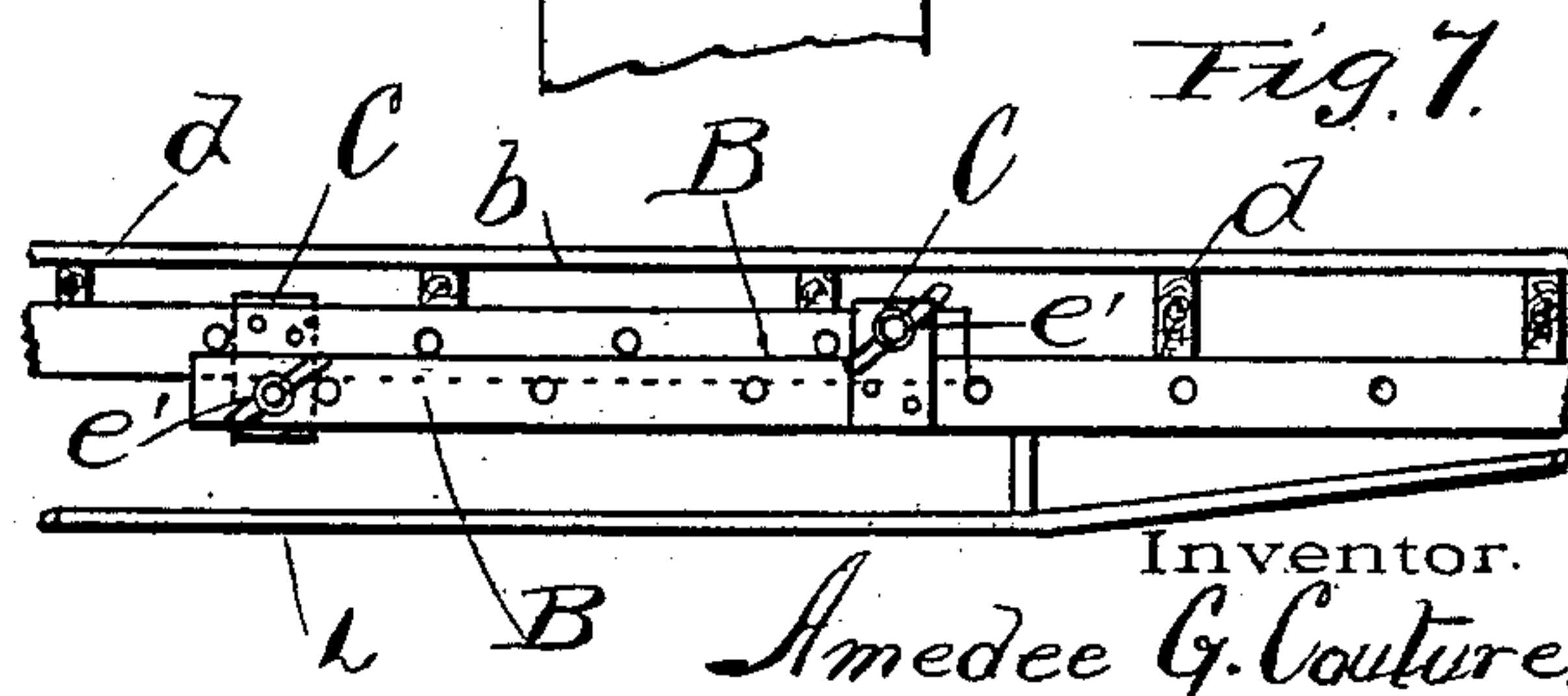
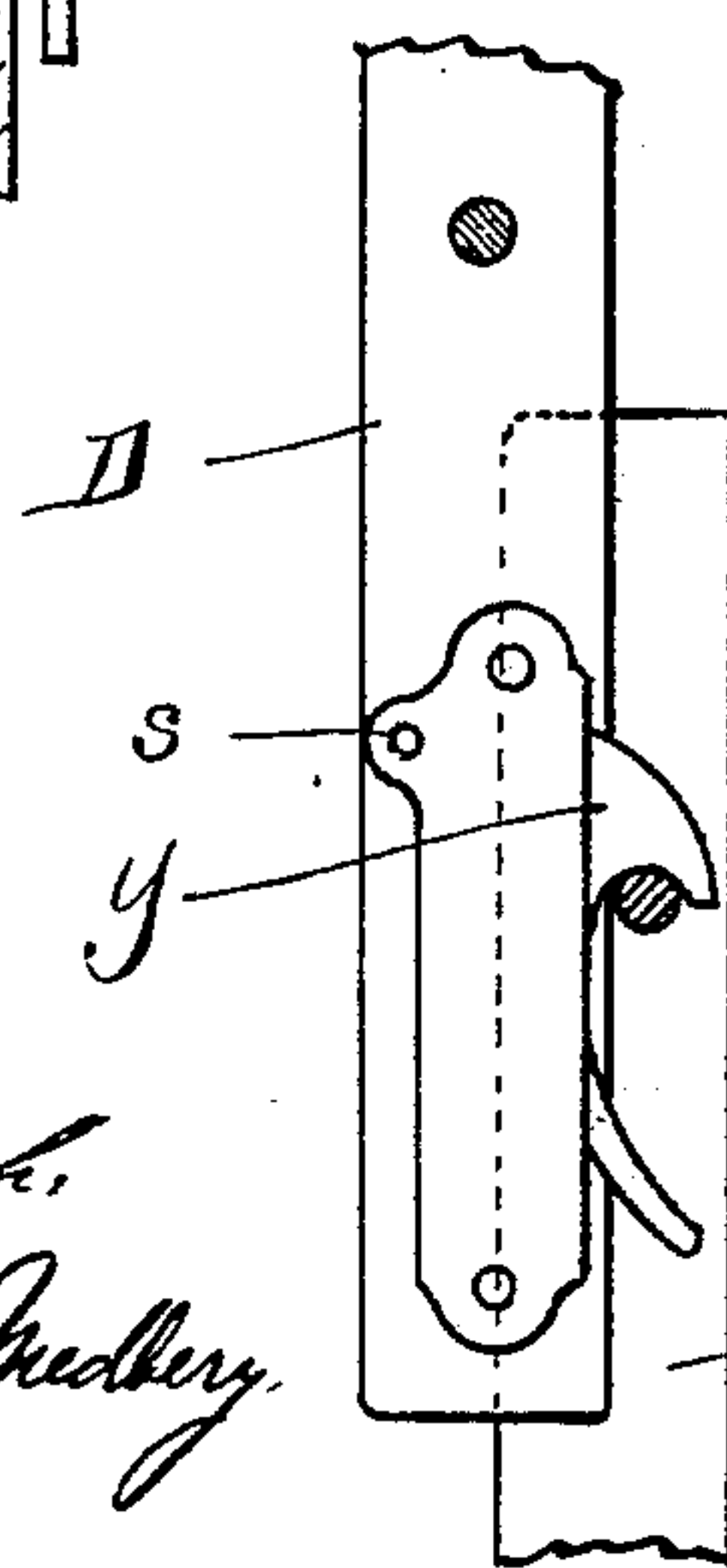
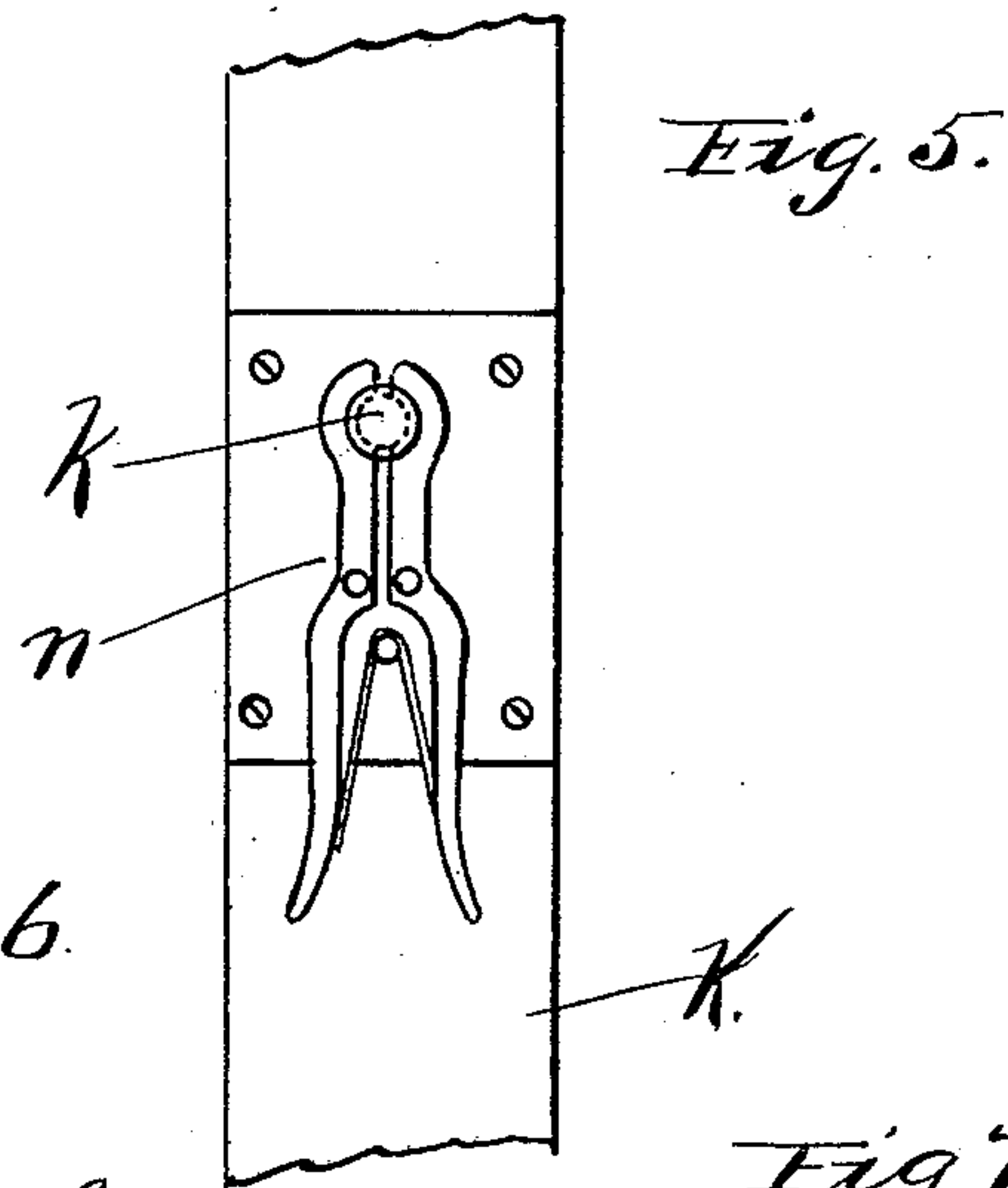
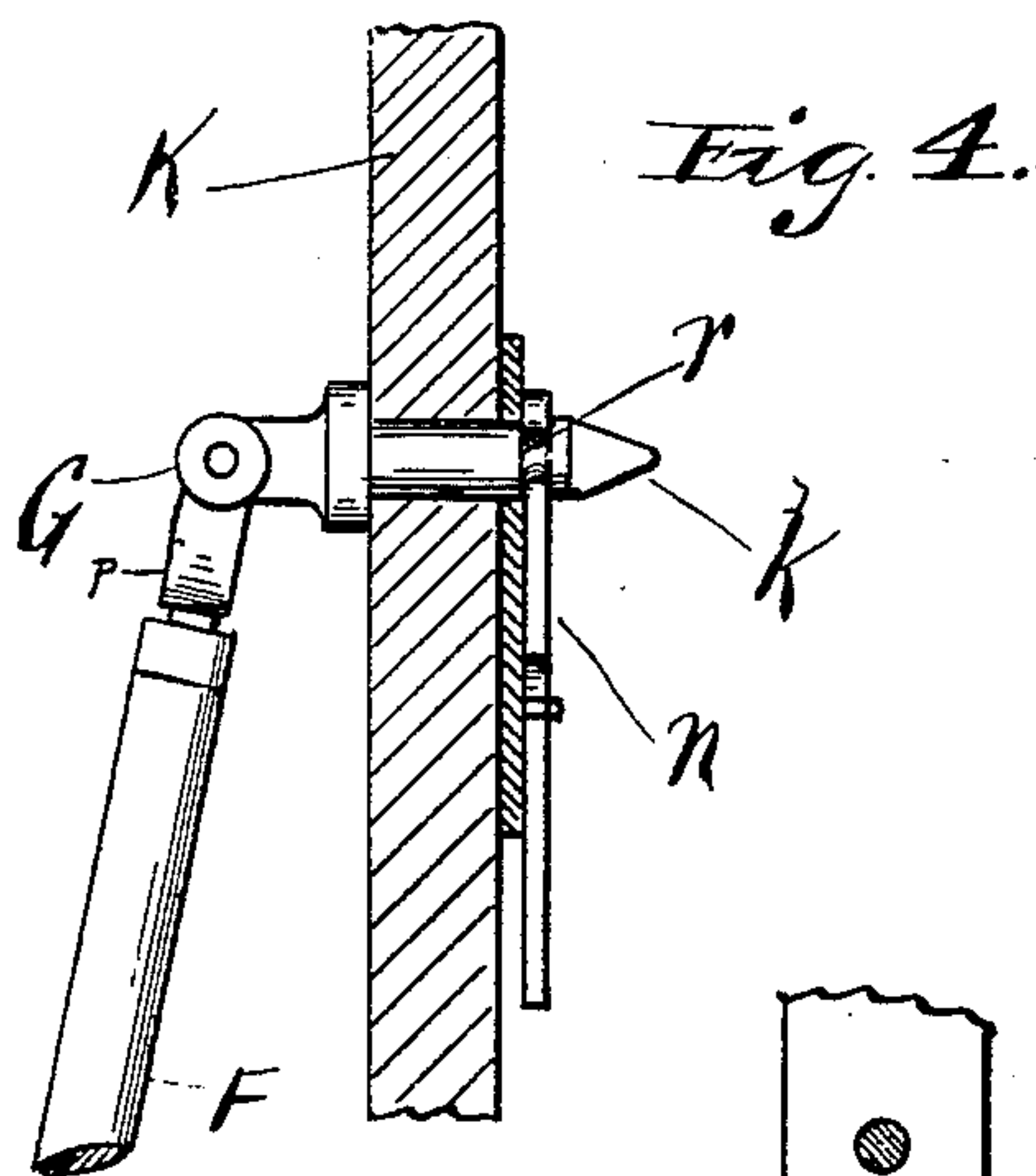
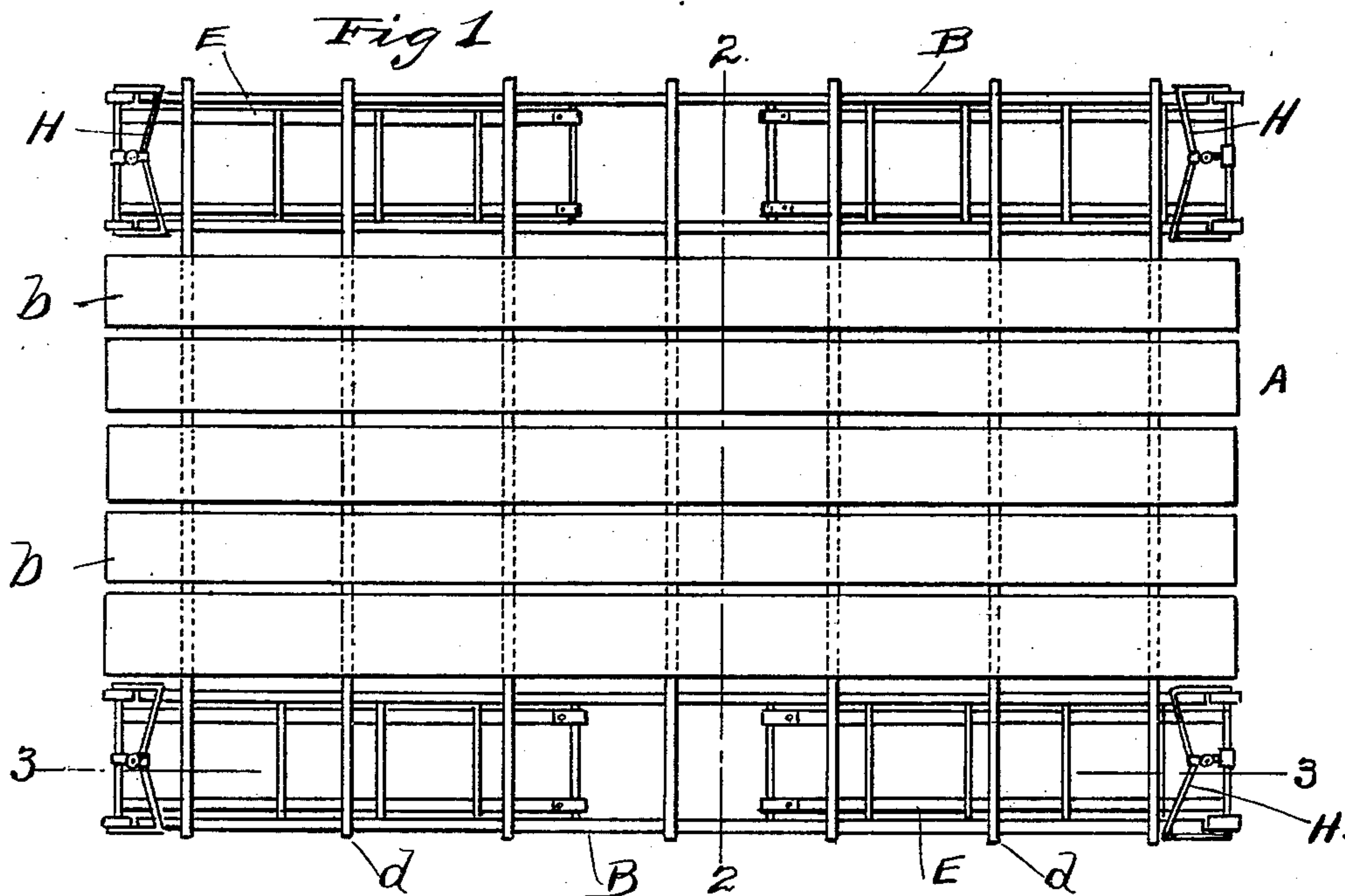
A. G. COUTURE.

EXTENSION TRUSS DECORATIVE STAGING.

(Application filed Mar. 14, 1901.)

(No Model.)

3 Sheets—Sheet 1.



Witnesses.

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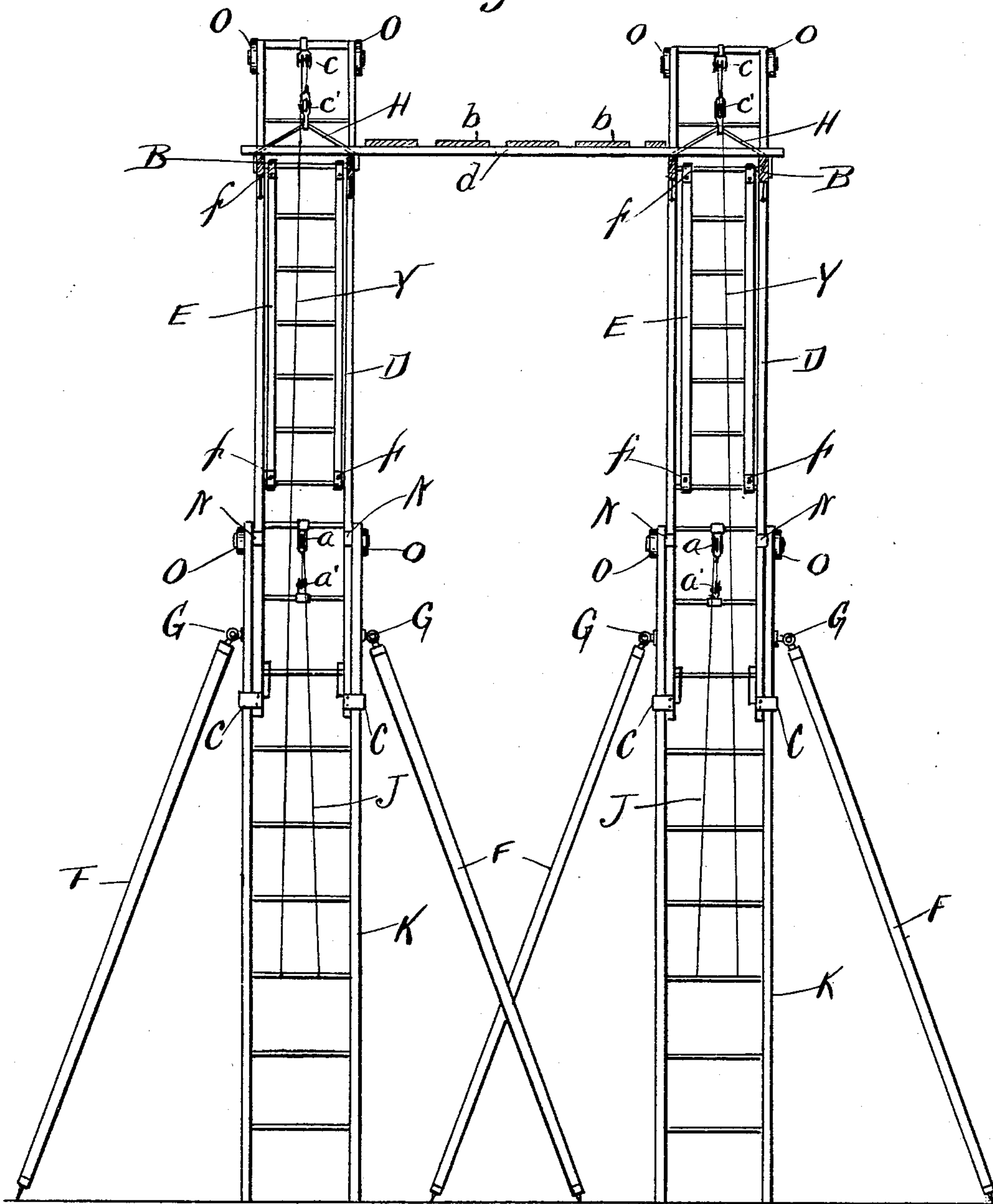
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3 Sheets—Sheet 2.

Fig. 2.



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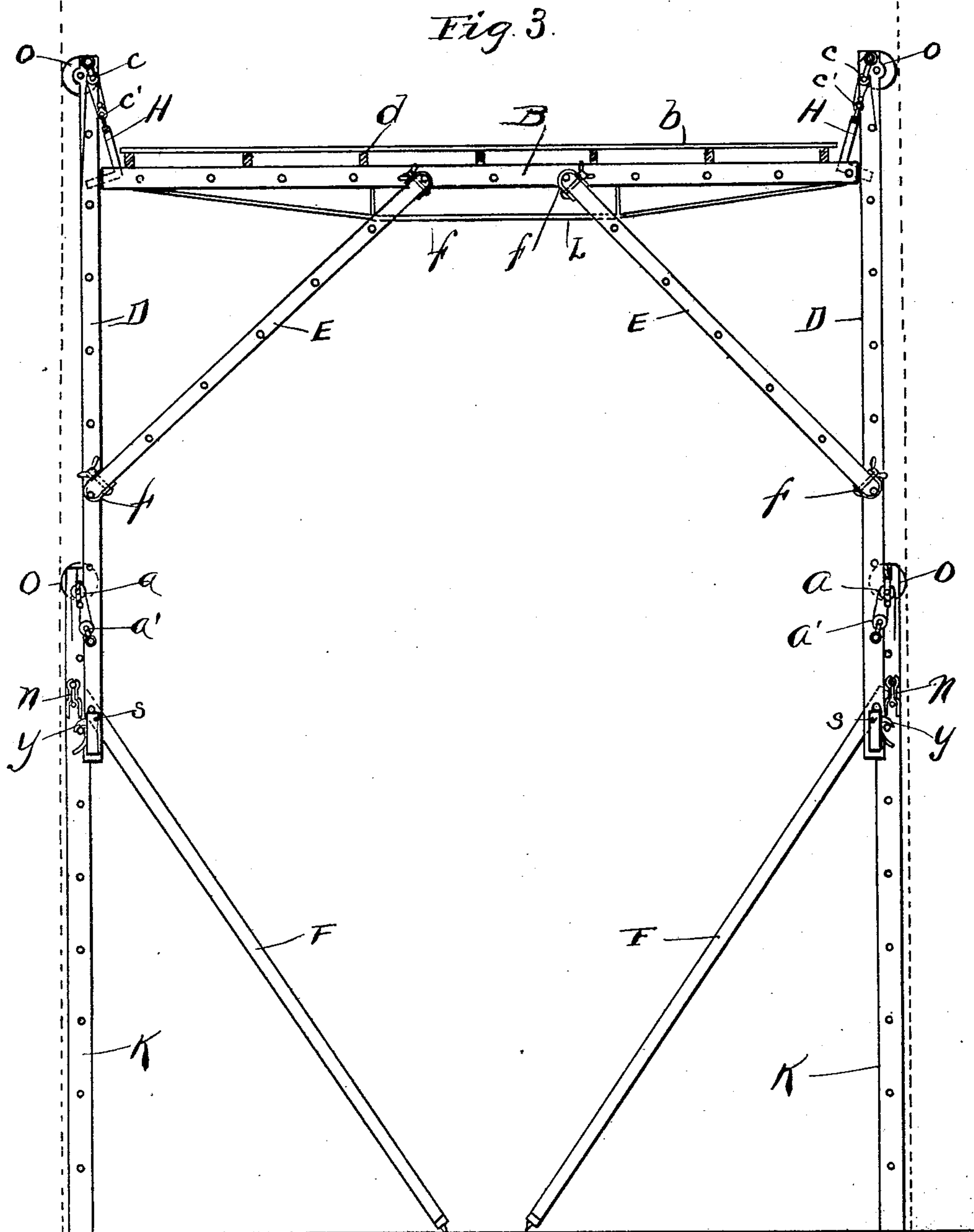
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3 Sheets—Sheet 3.



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UNITED STATES PATENT OFFICE.

AMEDEE G. COUTURE, OF PROVIDENCE, RHODE ISLAND.

EXTENSION-TRUSS DECORATIVE STAGING.

SPECIFICATION forming part of Letters Patent No. 677,066, dated June 25, 1901.

Application filed March 14, 1901. Serial No. 51,064. (No model.)

To all whom it may concern:

Be it known that I, AMEDEE G. COUTURE, a resident of the city of Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Extension-Truss Decorative Staging; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to that class of portable staging especially adapted for use in buildings such as churches, theaters, and the like.

The object of the invention is to provide a staging that shall be perfect in itself and not depending on anything outside of it for side supports, to be used in painting, decorating, and performing other work inside of buildings either in constructing or repairing them.

It is fully described and illustrated in this specification and the annexed drawings.

Figure 1 represents a top view of the staging. Fig. 2 is a vertical section of the staging, taken on line 2 2 in Fig. 1. Fig. 3 is a vertical section of the staging, taken on line 3 3 in Fig. 1 at a right angle to the section shown in Fig. 2. Fig. 4 is an enlarged view of one of the brace connections with a ladder. Fig. 5 is a view of a lock for the brace connection. Fig. 6 represents an enlarged view of one of the spring-catches to hold the upper ladders. Fig. 7 is a side view of the joint in the platform-ladders.

The staging is constructed mainly of ladders, and the four corner-supports are alike in construction and in operation, which are as follows:

K K are the lower sections, and D D are the upper sections, of the supporting-ladders placed at each corner of the structure. The upper section-ladders D are arranged to slide up and down by the lower section-ladders K and are secured to them by iron clamps C C, which are made fast to the lower ends of the upper ladders and slide on the lower ladders K, and also by the clamps N N, that are made fast to the upper ends of the lower ladders and through which the upper ladders D slide. Each upper section-ladder is raised

by a rope J and pulley-blocks *a a'*, one of which blocks *a* is made fast to the upper end of the lower ladder K and the other block *a'* is attached to the lower end of the upper ladder D. The rope J has one end made fast to the block *a*, and after passing through the blocks *a'* and *a* the fall is carried down to the floor to be made fast to the lower ladder. The supporting-ladders K, that form the corners of the staging, are held steady by side braces F F, which are secured to the sides of the ladders K by means of swiveling socket-irons G G, which consist of a shouldered pin *k*, (see Fig. 4,) that passes through the side of the ladder K and is secured in place by a spring-clamp *n*. (Seen separately in Fig. 5.) The upper end of the clamp *n* is opened by pressing the lower ends together, and then it is allowed to close in the groove *r* in the pin *k*. The outer end of the pin *k* has an eye made in it, on which a forked tang *p*, which is driven into the upper end of the brace F, is pivoted, the whole forming a connection between the two that allows the brace to be turned and set in any direction from the ladder. The upper section-ladders D are held up by means of spring-catches *y*, (shown enlarged in Fig. 6,) which consist of a catch *y*, held fast to the upper ladder D by a pin *s*, and catching on one of the rounds of the lower ladder K prevent the upper ladder from sliding down.

A is a movable platform (see Fig. 1) consisting of two horizontal ladders B B, that can be raised and lowered by means of the ropes V V, which pass through the pulley-blocks *c c'*, one of which, *c*, is attached to the upper end of the upper section-ladder D, and the other pulley-block, *c'*, is made fast to an iron bracket H, secured to one of the horizontal ladders B. One end of the rope V is made fast to the lower end of the block *c*, and after passing through the block *c'* it is carried up through the block *c* and down to the floor, where it can be easily handled and made fast. Cross-joists *d d* are laid from one of the horizontal ladders B to the other, and the boards *b b* are laid on these joists to form a platform floor on which the workmen stand.

The horizontal ladders B of the scaffold are braced from the upper section-ladder D by means of short ladders E E, which are se-

cured to ladders B and D by means of U-shaped clamps *ff*, that pass around the rounds in those ladders and are secured on the ends of the brace-ladders E by bolts with thumb-nuts, so that they can readily be changed when desired. A wire-cable truss L L is placed under each horizontal ladder B and secured at the ends to help sustain any weight that may be placed upon the platform, and rubber rollers O O are held on pivots at the upper ends of the upper and lower section-ladders D and K to prevent injury to the walls against which they may rub or rest.

Fig. 7 shows my method of extending the staging laterally by making the horizontal ladders B B in two parts and connecting them together in the same way that the section-ladders K D are, so that one ladder will slide upon the other, and then putting bolts *e'* through the clamps C to hold the two parts firmly in position.

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

1. In a staging of the character described, supports for a platform consisting of the combination of a lower section of ladders, side braces adjustably secured to said ladders, an upper section of ladders sliding upon said lower section, a movable platform, with means for sliding the upper section of ladders up and down and means for raising and lowering said platform, substantially as described.

2. In a staging of the character described, supports for a platform consisting of the com-

bination of a lower section of ladders, an upper section of ladders sliding upon said lower section, a movable platform, with means for sliding the upper section of ladders up and down and means for raising and lowering said platform, substantially as described.

3. A portable staging having corner-supports constructed of ladders, in combination with a movable platform consisting of horizontal ladders with a floor laid thereon, ladders diagonally arranged and attached to said supporting-ladders and the horizontal ladders as braces, blocks and ropes attached to said ladder-supports and said platform to support it, substantially as described.

4. A portable staging having corner-supports made of an upper section of ladders and a lower section of ladders a pair of pulley-blocks to each upper and lower ladder, one of said pair of blocks being attached to the upper end of the lower ladder and the other block of the pair made fast to the lower end of the said upper ladder, a rope rove in said pulley-blocks, a movable platform, a pulley-block attached to the upper end of each upper ladder; pulley-blocks attached to the platform, a rope rove in each pair of blocks, substantially as described.

In testimony whereof I have hereunto set my hand this 12th day of March, A. D. 1901.

AMEDEE G. COUTURE.

In presence of—

BENJ. ARNOLD,

C. S. MARSH.