

(No Model.)

F. E. ALLEN.

FLOOR CLAMP.

No. 280,113.

Patented June 26, 1883.

Fig. 1.

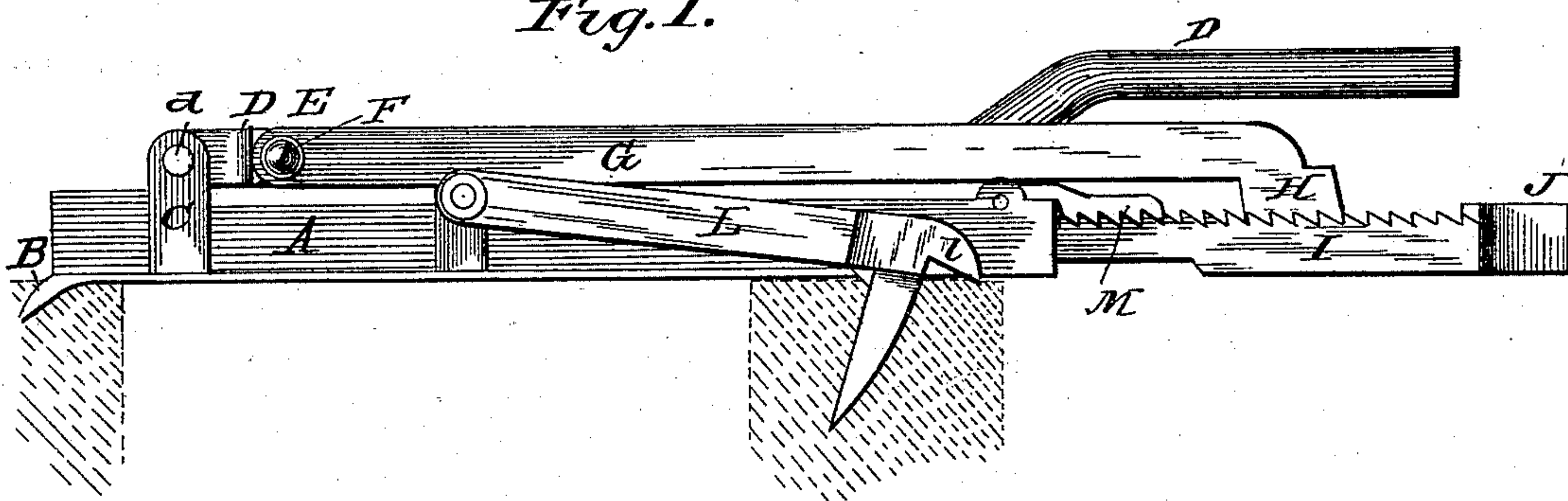


Fig. 2.

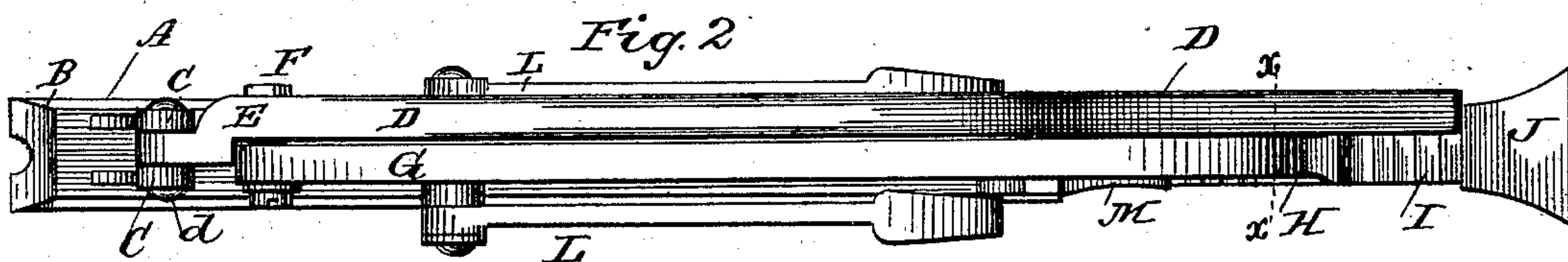


Fig. 3.

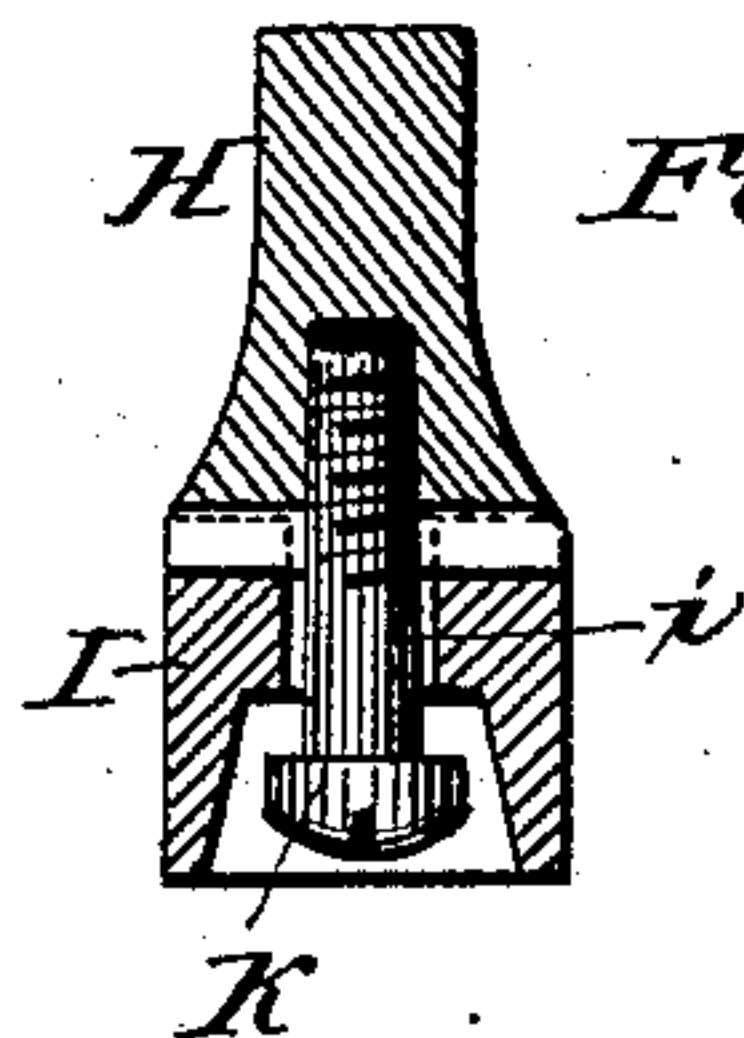
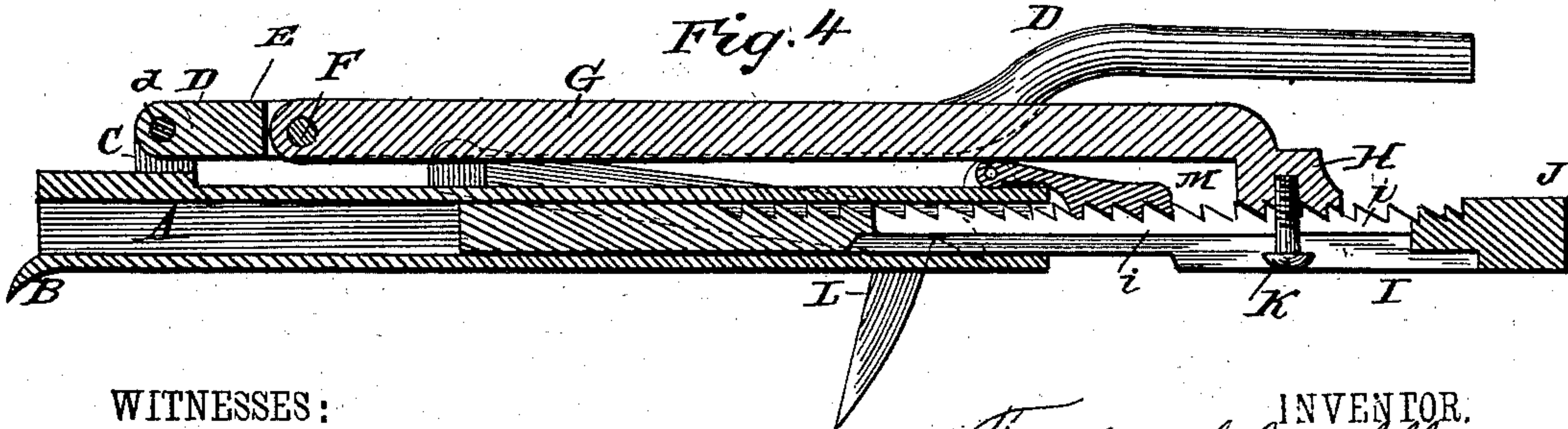


Fig. 4.



WITNESSES:

*Fred. L. Dietrich*  
*Arthur L. Morell*

INVENTOR.

*Frederick E. Allen*  
By *Louis Bagger & Co.*  
ATTORNEYS



# UNITED STATES PATENT OFFICE.

FREDERICK E. ALLEN, OF NORTH GRAFTON, MASSACHUSETTS.

## FLOOR-CLAMP.

SPECIFICATION forming part of Letters Patent No. 280,113, dated June 26, 1883.

Application filed April 23, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, FREDERICK E. ALLEN, of North Grafton, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Floor-Clamps; and I 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, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a side view of my improved floor-clamp. Fig. 2 is a top view of the same. Fig. 3 is a cross-section through line *x x* in Fig. 2, and Fig. 4 is a longitudinal sectional view of the device.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to that class of implements known as "floor-clamps," which may, however, be adapted for a variety of other purposes; and it consists in the improved construction and combination of parts of a device of that class, as hereinafter more fully described and claimed.

In the accompanying drawings, A represents a hollow box or casing, the outer end of which is shaped to form a jaw, B. The casing A is cast with projections C, which form bearings for the lever D, which is pivoted upon a bolt, *d*, between the ears or projections C.

The lever D is bent to form a shoulder, E, through which a bolt, F, is inserted, that forms a fulcrum for the bar G, the outer end of which is provided with a serrated head, H, adapted to engage the teeth of the sliding rack-bar I, at the outer end of which is the head or abutment J. The head H of bar G is provided with a headed screw, K, which projects down through a longitudinal slot, *i*, in the sliding rack-bar, the head of the bolt or screw K being larger than the width of the slot, so that screw K will form a guide, and at the same time prevent arm or bar G from being raised too great a distance from the sliding rack-bar, with which it engages.

Hinged upon opposite sides of the box A are the dogs L, which are provided with projecting lips *l*, for the purposes hereinafter stated; and hinged upon the rear end of the

part A is the catch or pawl M, which is adapted to engage the sliding rack-bar I and hold it in its adjusted position.

From the foregoing description, taken in connection with the drawings, the operation of my improved floor-clamp will readily be understood. In using it the jaw B is fixed in one of the joists or floor-beams, or against the wall, if near enough to it, and the head or abutment J is placed against the edge of the board or plank, which is to be forced into position in the flooring. By now working the lever D it will be seen that the sliding rack-bar I is gradually worked out of its box or casing A, which remains stationary, thus forcing the board against which the abutment J is placed into position. If desired, box A may be fastened in the joists by means of the dogs L, as shown in Fig. 1; and when it is desired to remove the device from one place to another the dogs may be released by placing the claw of a hammer underneath the lips or projections *l*.

Among other purposes for which this implement may be successfully used is that of a carpet-stretcher, and its use as such will readily suggest itself.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The improved floor-clamp herein shown and described, composed of the box A, having fixed jaw B and ears or projections C, lever D, bent to form the shoulder E, arm or bar G, provided with the serrated head H, having guide-screw K, rack-bar I, slotted longitudinally, and having the head or abutment J, hinged catch-pawl M, adapted to engage the rack-bar, and dogs L L, pivoted upon opposite sides of box A, and provided with the rearward-projecting lips *l*, the whole constructed and combined to operate substantially in the manner and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

FREDERICK E. ALLEN.

Witnesses:

WILLIAM T. BARKER,  
ELISHA D. HOLBROOK.