

(No Model.)

J. E. PREST.

FLAT SUPPORTING DEVICE FOR CARDING MACHINES.

No. 446,015.

Patented Feb. 10, 1891.

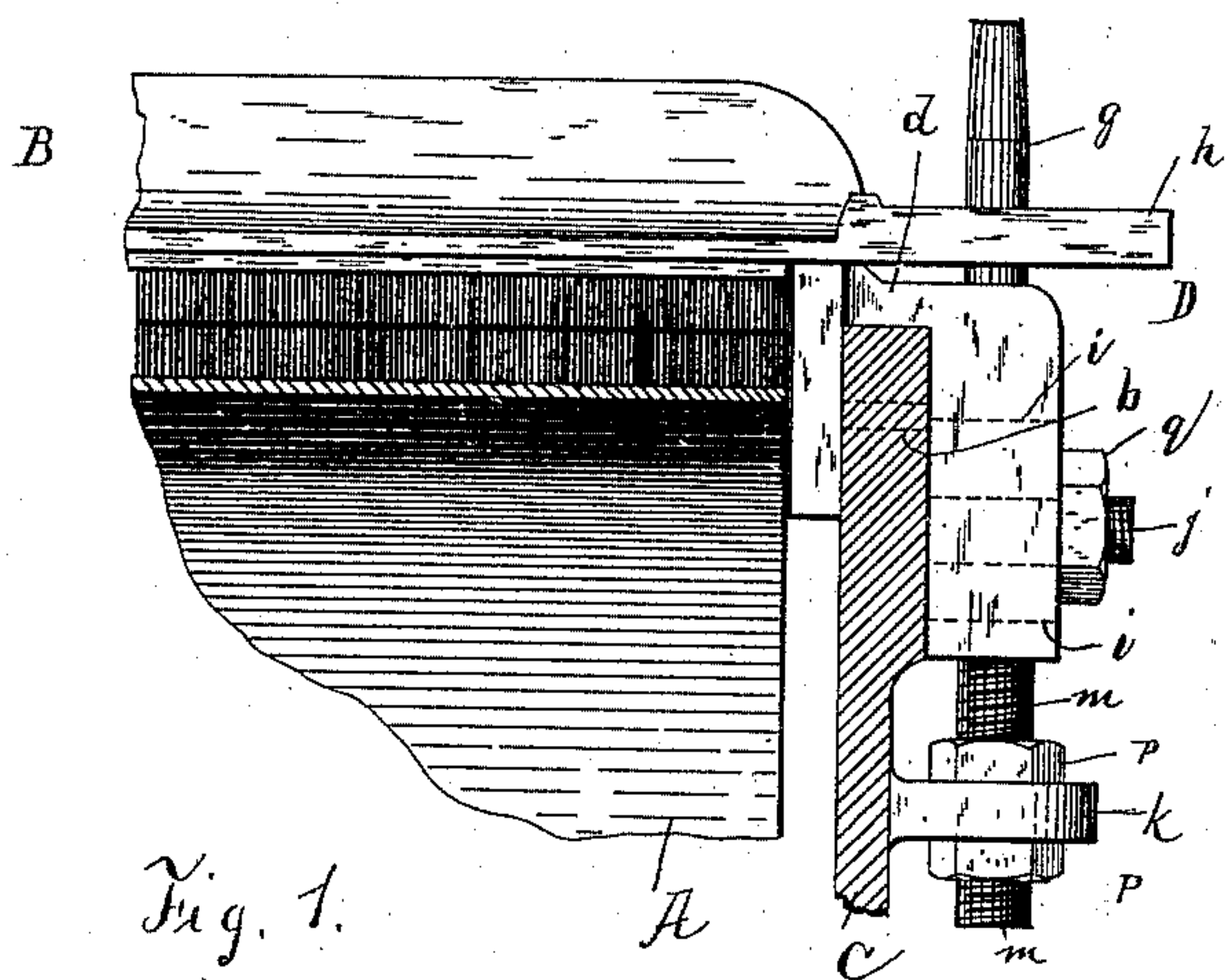


Fig. 1.

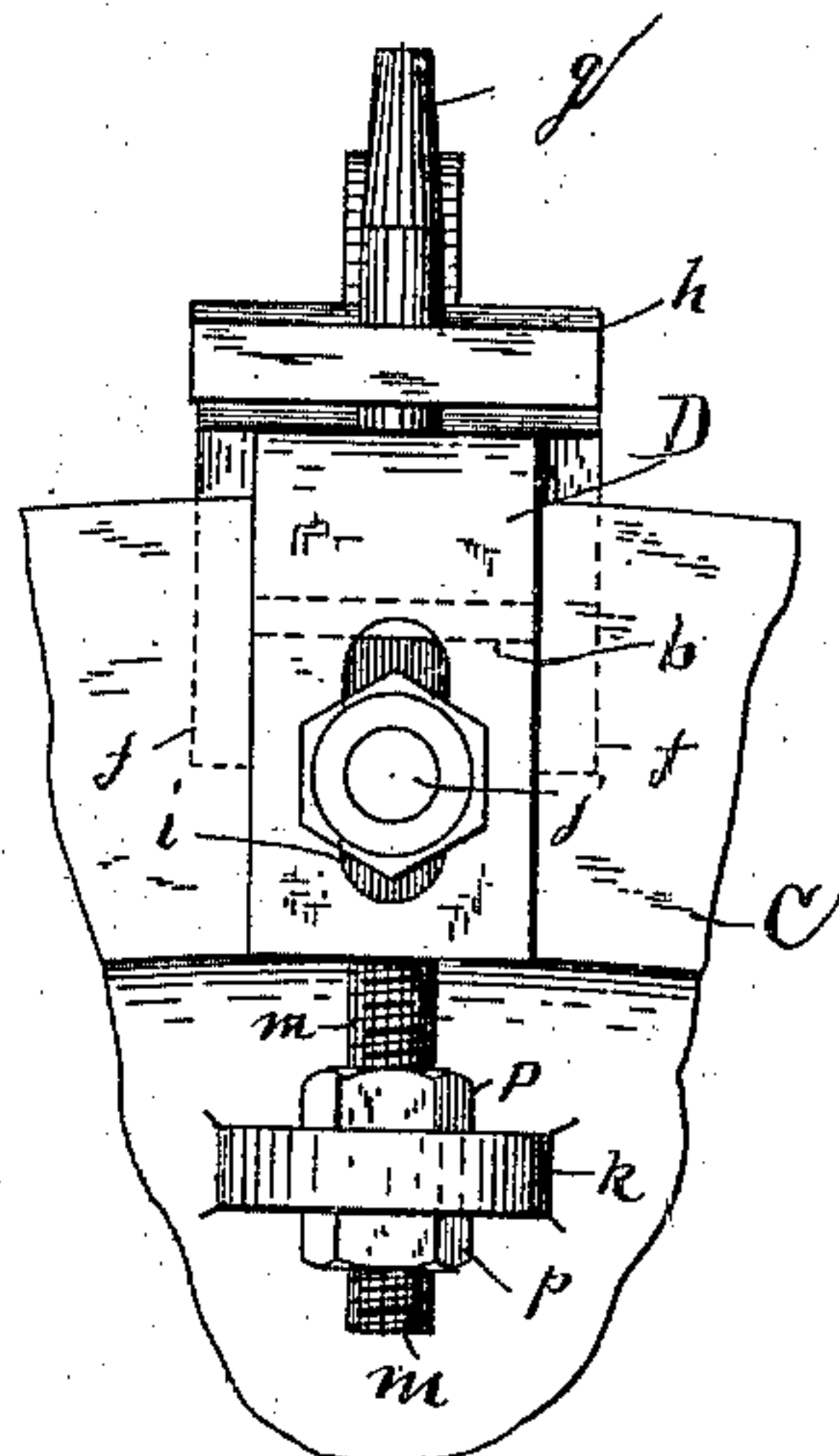


Fig. 2.

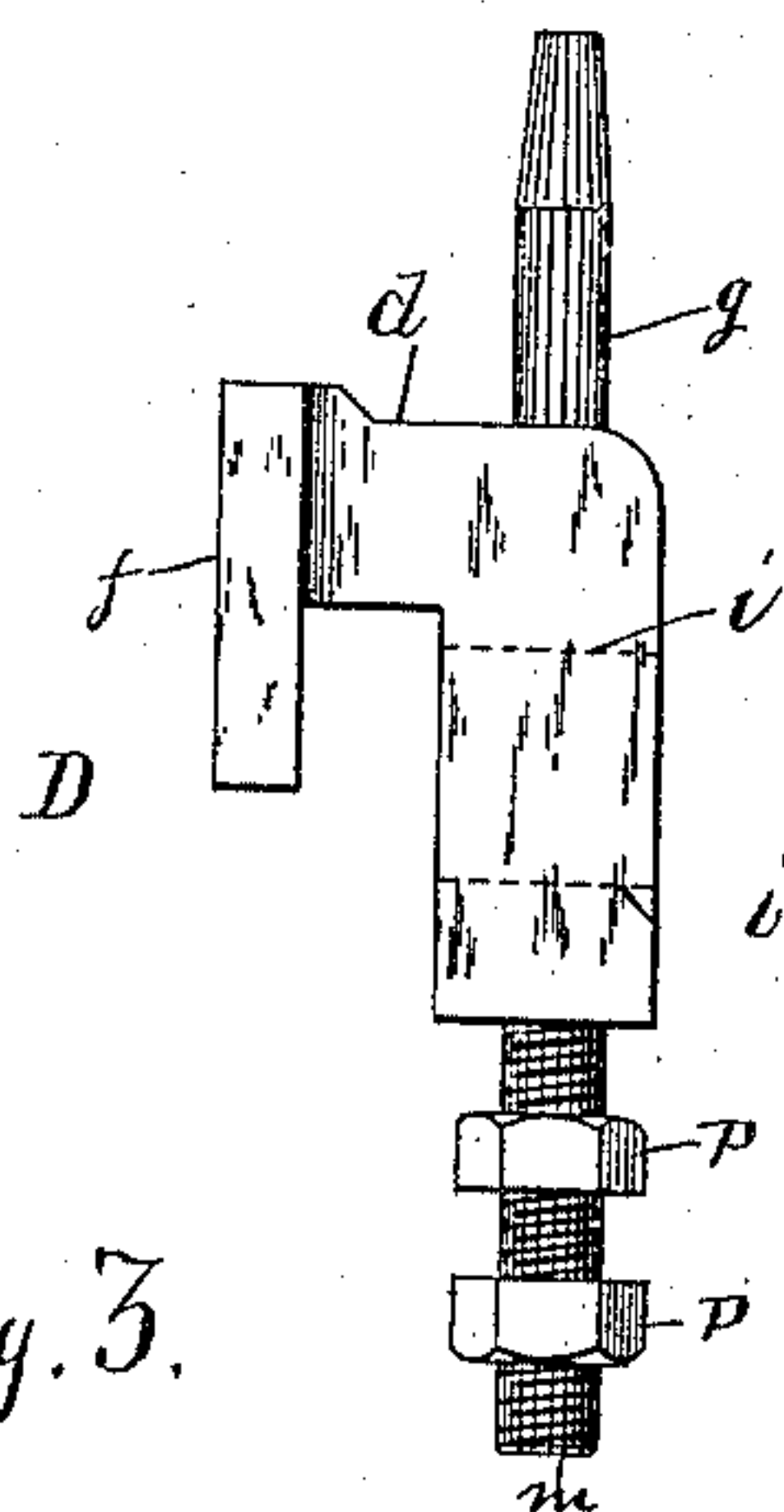


Fig. 3.

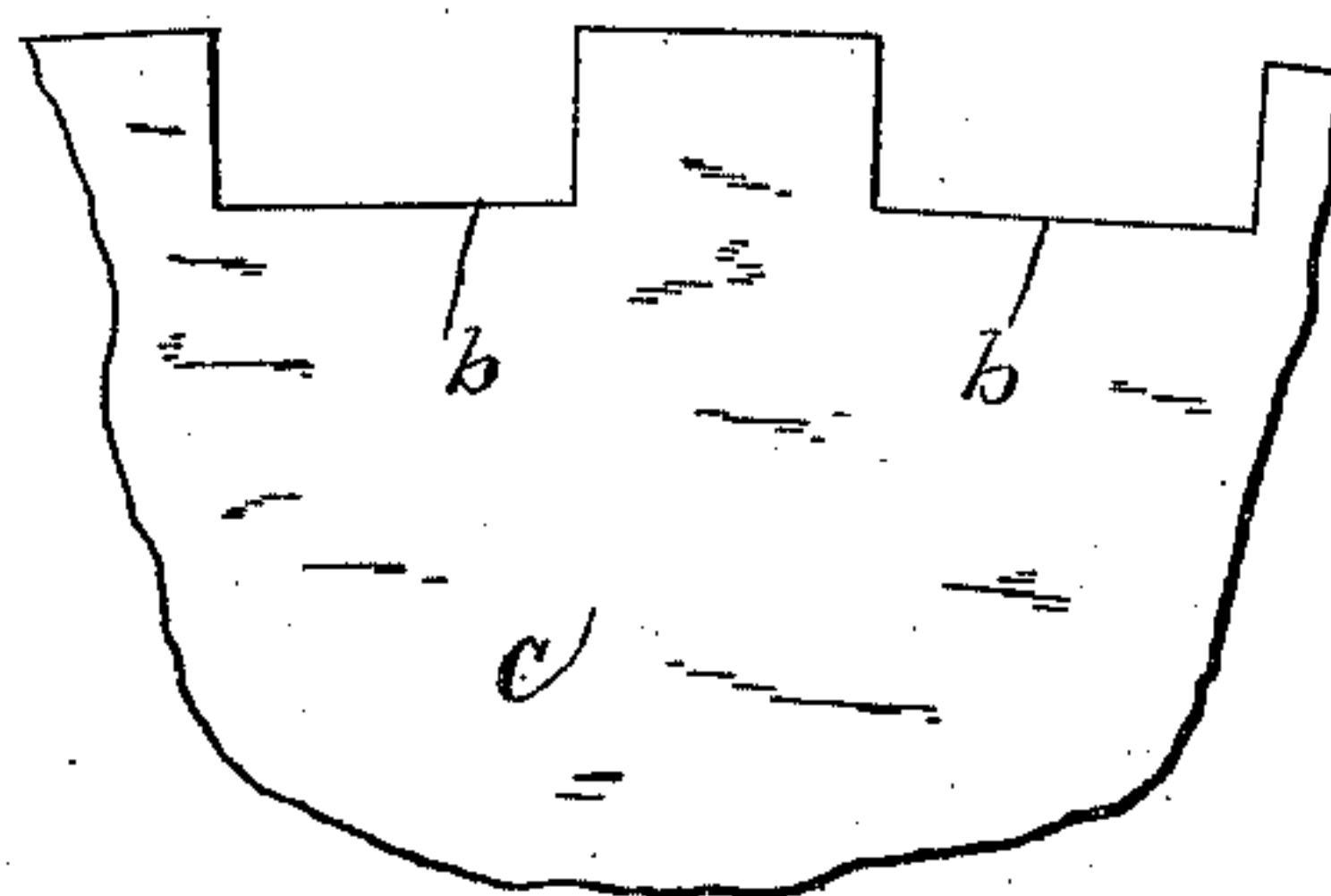


Fig. 4.

Witnesses
L. S. Burbank
M. Surfer

Inventor
John E. Prest,
Per C. A. Shaw & Co.,
Attorneys.

UNITED STATES PATENT OFFICE.

JOHN E. PREST, OF WHITINSVILLE, MASSACHUSETTS.

FLAT-SUPPORTING DEVICE FOR CARDING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 446,015, dated February 10, 1891.

Application filed July 1, 1890. Serial No. 357,438. (No model.)

To all whom it may concern:

Be it known that I, JOHN E. PREST, of Whitinsville, in the county of Worcester, State of Massachusetts, have invented certain new and
5 useful Improvements in Flat-Supporting Devices for Carding-Machines, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention apper-
10 tains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a sectional view of one of the end frames and top-flat, showing the adjust-
15 able support in elevation; Fig. 2, a partial side elevation of one of the side frames of a carding-engine, showing the top-flat in position on one of the supports; Fig. 3, a side elevation of one of the supports detached;
20 and Fig. 4, a partial front elevation of one of the side frames, the supports being removed.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

25 My invention relates especially to means for adjusting and supporting the top-flats of carding-engines; and it consists in certain novel features hereinafter fully set forth and claimed, the object being to produce a sim-
30 pler, cheaper, and more effective device of this character than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following
35 explanation.

In the drawings, A represents the carding-cylinder, B one of the top-flats, and C one of the side frames, of the carding-engine. The cylinder and flat are provided with cloth-
40 ing and arranged in the ordinary position in relation to each other. The frame C is circular in form in the ordinary manner and is provided on its edge with rectangular notches or openings b.

45 The support D is represented in elevation in Fig. 3, and consists of an angular body-piece d, from the horizontal portion of which a guard or shield f projects laterally. The body d is fitted to enter the notch b in the
50 side frame, so that the guard f is arranged adjacent to the clothing on the cylinder and

top-flat, and serves to prevent the material being carded from leaving said clothing at the end. A vertical spindle or pin g projects from the top of the support, and is preferably
55 formed integral therewith, said spindle passing through a laterally-projecting flange h on the top-flat which rests upon the top of the guard f of said support. The body of the support is extended downward to engage the
60 outer face of the side frame C, and is provided with a vertical oval-shaped slot or opening i, through which a bolt j passes, by means of which the support is secured to the side frame, said slot being of sufficient length to
65 permit the support to be vertically adjusted on said frame.

The side frame is provided with horizontal ears or lugs k, which project laterally therefrom. A screw m, formed on the lower
70 end of the support-body, passes through said lugs, to which it is adjustably secured by nuts p.

Great nicety is desirable in adjusting the top-flats of a carding-engine in relation to the
75 carding-cylinder, and when so adjusted it is necessary that they should be firmly supported in such position. In my improved support this adjustment may be regulated with great
80 degree of accuracy by means of the screw m and nuts p, a nut q on the bolt j serving to more rigidly secure the support in position. The notches or openings b in the side frame
85 also serve to prevent lateral movement of the top-flat by means of the flange h, through which the spindle g passes. The top-flat bearing directly onto the top of the support in my improved device, instead of having said support project loosely into a slot in said flat, serves to guard against accidental downward
90 vertical movement thereof. By this arrangement also it is rendered practically impossible for the material being carded to pass over the guard f, which at all times is arranged
95 closely to the card-clothing, no space being left between said flat and guard.

Having thus explained my invention, what I claim is—

1. The combination, with the side frame of a carding-engine provided in its edge with a
100 rectangular notch, of a top-flat and a support vertically adjustable in said notch and

provided with a spindle passing through an opening in said flat, said flat resting upon said support, substantially as described.

2. In a carding-engine, the support D, comprising the body *d*, fitted to enter a rectangular slot in the side frame and provided with the guard *f*, adapted to engage the top-flat, the spindle *g*, slot *i*, and screw *m*, arranged to operate substantially as described.

3. The combination of the cylinder and top-flat provided with a longitudinally-projecting flange at its end, with the side frame provided with a rectangular notch or opening in its edge, and a support vertically adjustable on said side frame, and provided with a guard adapted to be disposed between the end of the card-clothing and said frame and support said flat, substantially as described.

4. The combination of the side frame C, provided with the rectangular opening *b* and lug *k*, with the top-flat B, provided with the flange *h*, and the support D, vertically adjustable on said side frame and provided with the guard *f* and spindle *g*, substantially as described.

5. The combination of the cylinder A, the top-flat B, having the flange *h*, and the side frame C, having the lug *k* and the rectangular opening *b*, with the support D, adapted to be inserted in said opening and provided with the guard *f*, spindle *g*, screw *m*, and nuts *p*, substantially as and for the purpose set forth.

JOHN E. PREST.

Witnesses:

O. M. SHAW,
K. DUFEE.