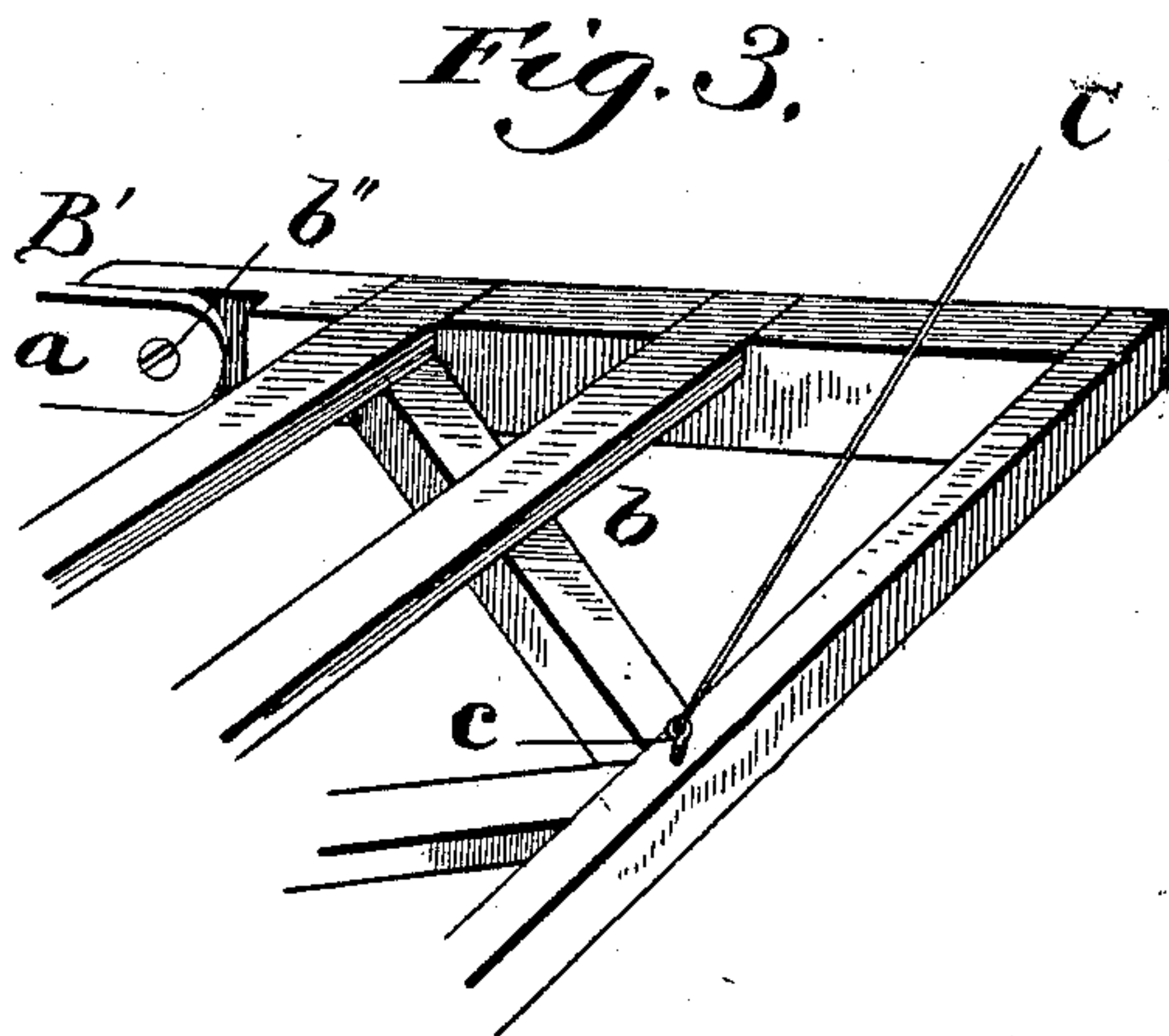
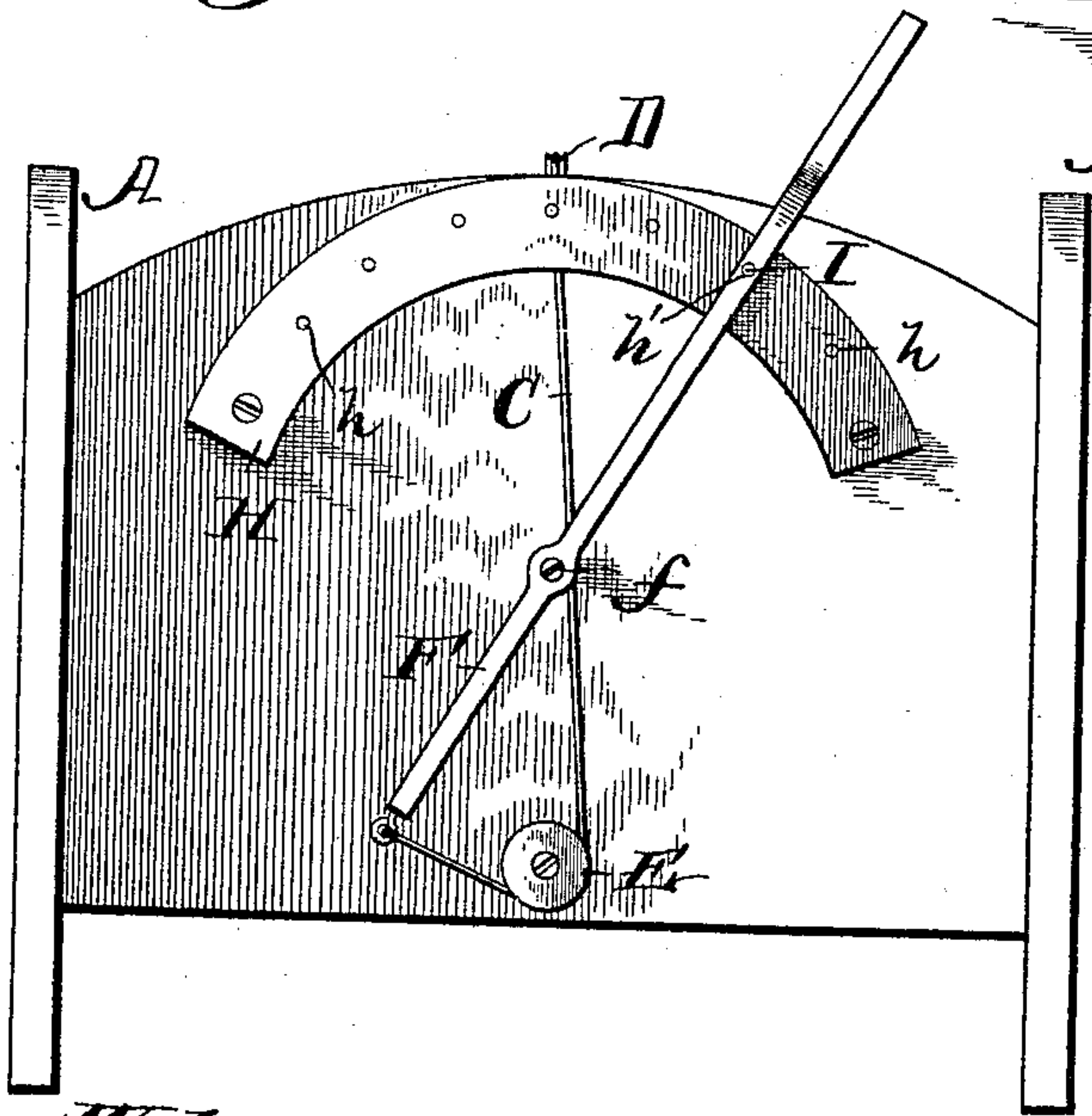
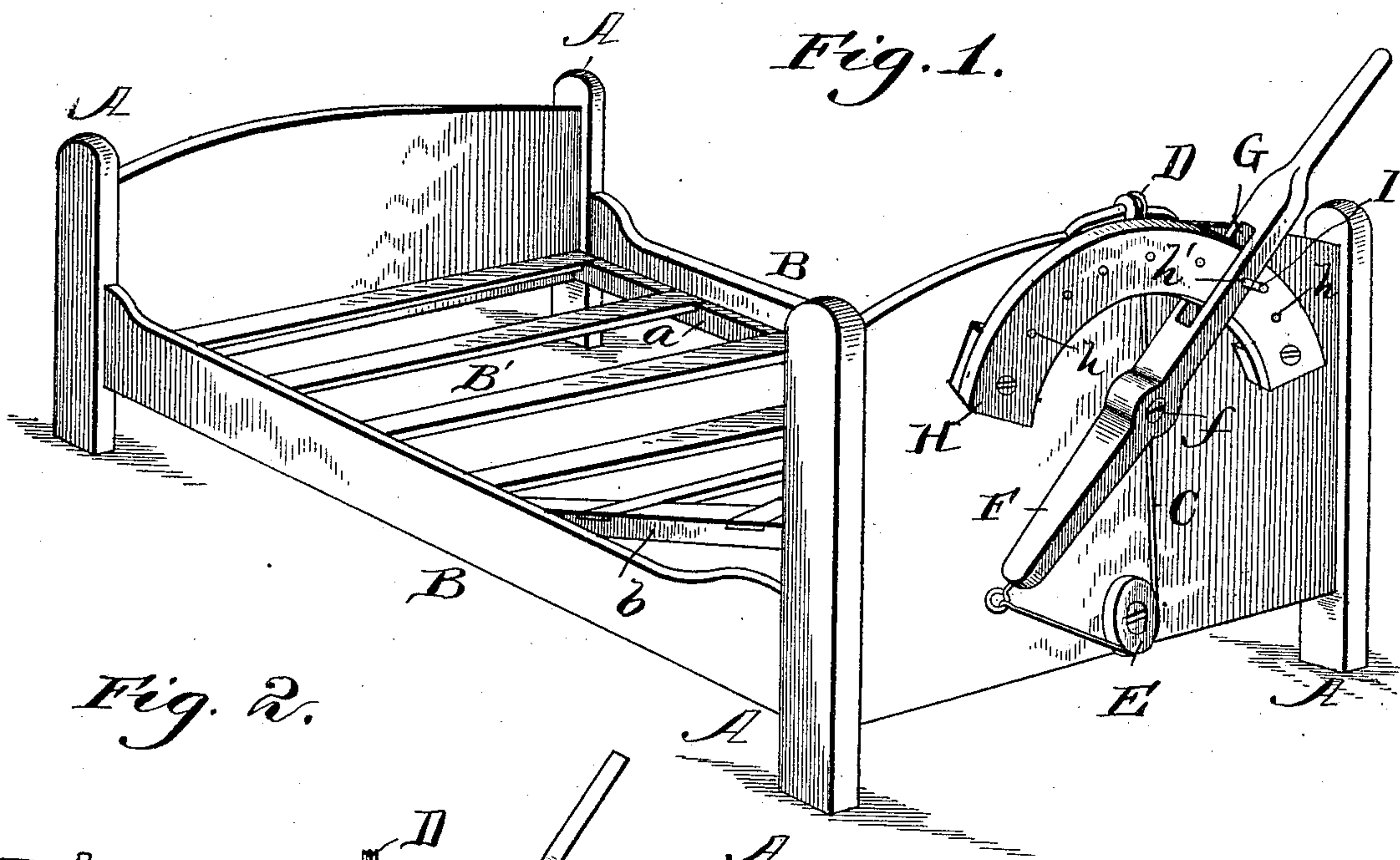


(No Model.)

B. OTTINGER.
INVALID BED.

No. 509,674.

Patented Nov. 28, 1893.



Witnesses:
J. B. McGiver
B. F. Thornett.

Inventor:
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by Eben Appelman
attys.

UNITED STATES PATENT OFFICE

BENJAMIN OTTINGER, OF GEORGETOWN, TEXAS.

INVALID-BED.

SPECIFICATION forming part of Letters Patent No. 509,674, dated November 28, 1893.

Application filed July 17, 1893. Serial No. 480,757. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN OTTINGER, a citizen of the United States of America, residing at Georgetown, in the county of Williamson and State of Texas, have invented certain new and useful Improvements in Invalid-Beds, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to certain new and useful improvements in bedsteads, and particularly to those known as invalid bedsteads, the object of the invention being to provide means whereby the hinged head section of the
15 bed may be adjusted to any desired angle of elevation; furthermore providing suitable means for retaining it in its adjustable position.

20 A further object of the invention is to provide means where the desired result may be obtained with but slight exertion on the part of the operator.

25 A still further object of the invention is to provide simple and inexpensive parts that may be easily adjustable and readily removable to renew parts that are worn or broken, as the case may be.

30 Finally the invention abounds in various novel details of construction, arrangements and combinations of parts, to be hereinafter more fully described and specifically pointed out in the claim.

35 In describing the invention in detail, reference is had to the accompanying drawings forming part of this specification, wherein like letters indicate corresponding parts in the several views, in which—

40 Figure 1. is a perspective view of my improved invalid bedstead showing the mechanism attached at the head board. Fig. 2. is a detail view of the adjusting mechanism showing in dotted lines the different angles of the adjusting lever. Fig. 3, is a detail view of the movable section of the interior frame.

45 In the drawings,—A, A, A, A, indicate the bed post and B, B, the connections forming a rectangular frame for the support of the interior frame *a*, on which the springs and mattress are designed to rest. This interior frame
50 *a*, is divided into the permanent section B', and the movable and adjustable head section

b, hinged on each side, near the connecting side pieces as at *b''*. To the center of this interior frame adjacent to the head board of the bedstead is attached a flexible connection 55 C, at *c*, which passes over a pulley D, arranged in the center and at the top of the head board, thence passing downwardly to a pulley E, which is arranged in alignment and secured so as to operate transversely with the pulley 60 D, at the bottom of the head board, with which the said connection C engages, the opposite end of this flexible connection being attached to the end of the lever F, which is pivoted at *f*, and secured at a point between the pulleys 65 D and E. The lever F, contains a slot G, designed to embrace the semi-circular or segmental guide or rack H, having apertures *h*, *h*, arranged equi-distantly for the reception of the securing pin in I, which passes through 70 the hole *h'*, in the lever and the apertures *h*, *h*, of the rack, by which means it will be obvious the adjustment is accomplished. This adjustment may also be attained by means of
75 a set screw passing through the lever far enough to engage the outer surface of the segmental guide by which means, it will be apparent, the lever may be retained or held at any point in its path of travel.

80 The lever H, is elongated for the purpose of increasing the leverage and thereby facilitating the operation of this device, and I call particular attention to the fact that it may be so arranged as to operate from either side of the pulley E, where the bedstead occupies a 85 position where access to one side is practically impossible; another advantage being that this mechanism can be operated from the side of the bed which is impossible in numerous winding processes now in use. 90

95 The mechanism may be constructed of any suitable material and various changes may be made in the detail construction of the device without departing from the general idea involved.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

100 The combination with a bed, provided with a movable head section, of means for raising and lowering said head section, said means comprising a slotted lever pivotally secured

to the head-board, an apertured segmental plate passed through the slot of the lever and having the ends thereof secured to the head-board, pulleys mounted respectively adjacent
5 the top and bottom and centrally of the head-board, a flexible cable connected with the lower end of the lever and supported on said pulleys and secured to the movable section, and a securing pin adapted to be passed
10 through an aperture of the lever and into the

apertures of said segmental plate, whereby the lever may be held in an adjusted position, as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

BENJAMIN OTTINGER.

Witnesses:

W. D. NICHOLS,
S. K. STEWART.