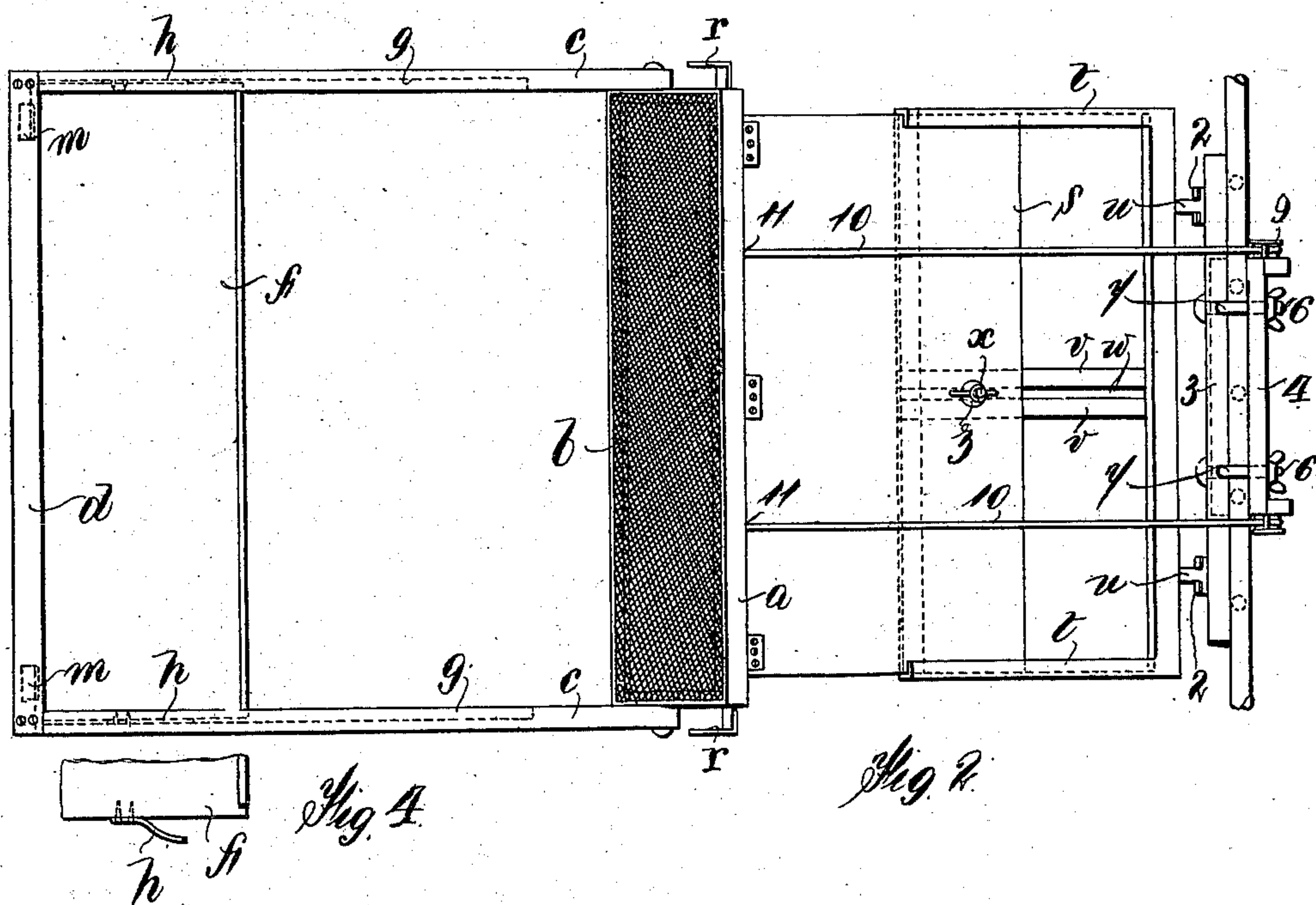
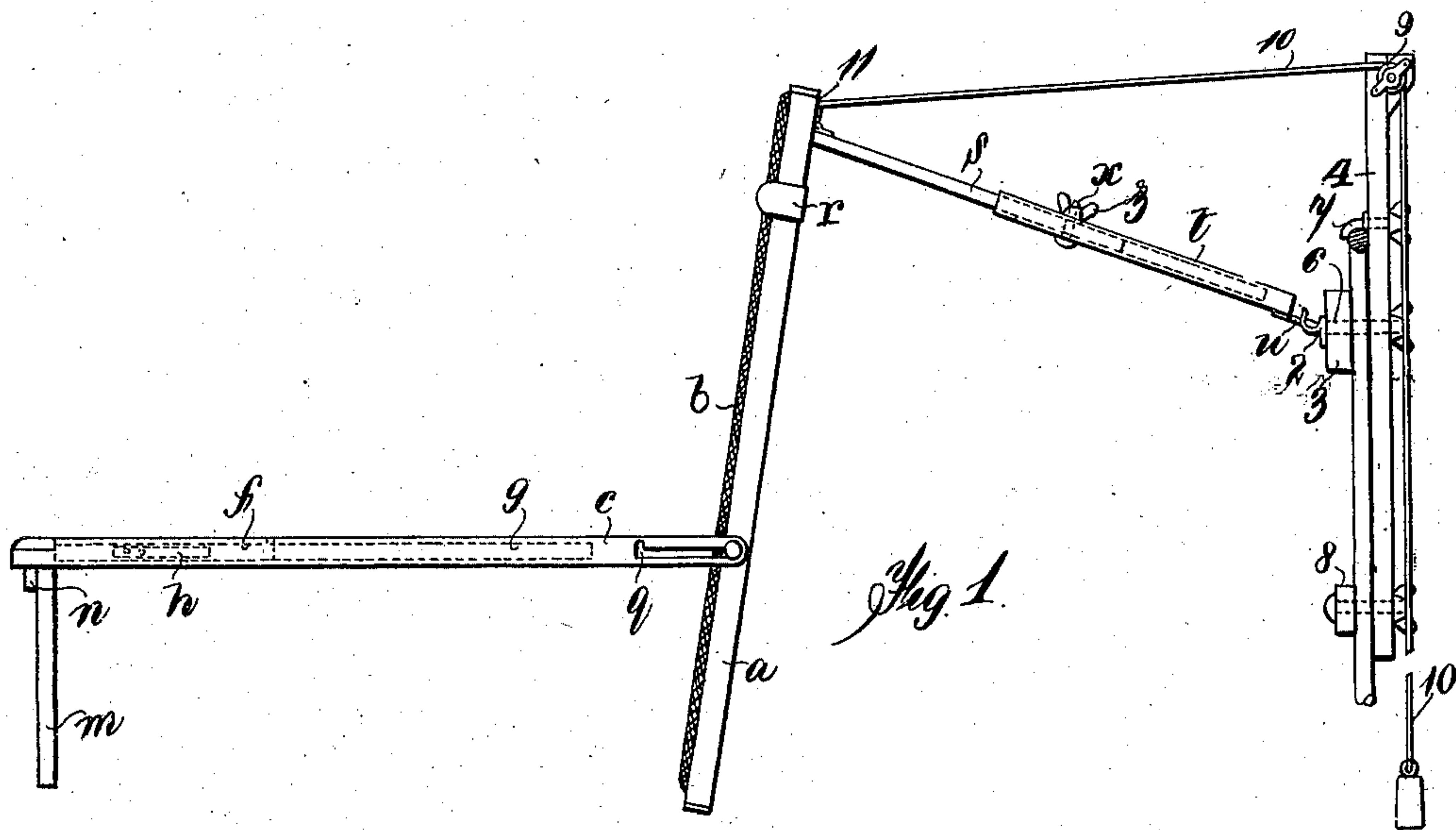


975,906.

APPLICATION FILED JULY 19, 1909.

Patented Nov. 15, 1910.

2 SHEETS—SHEET 1.

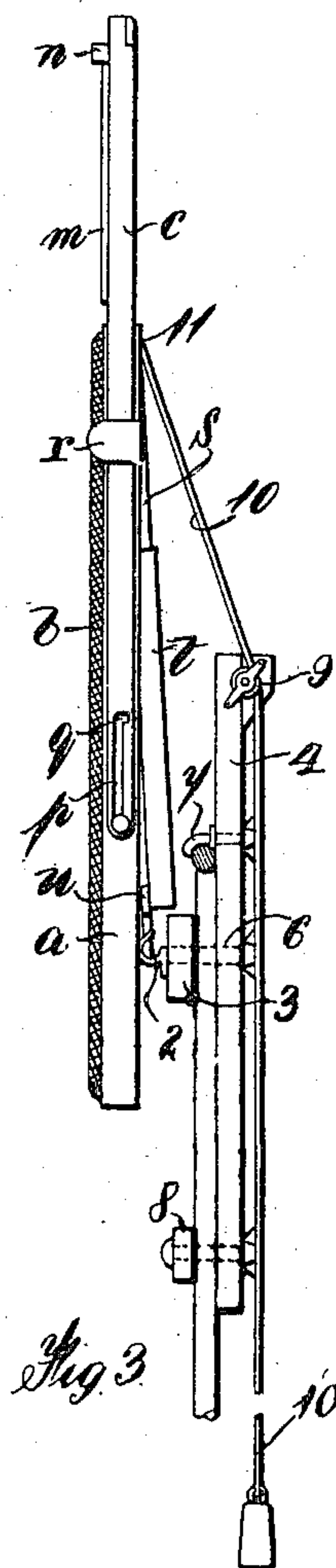
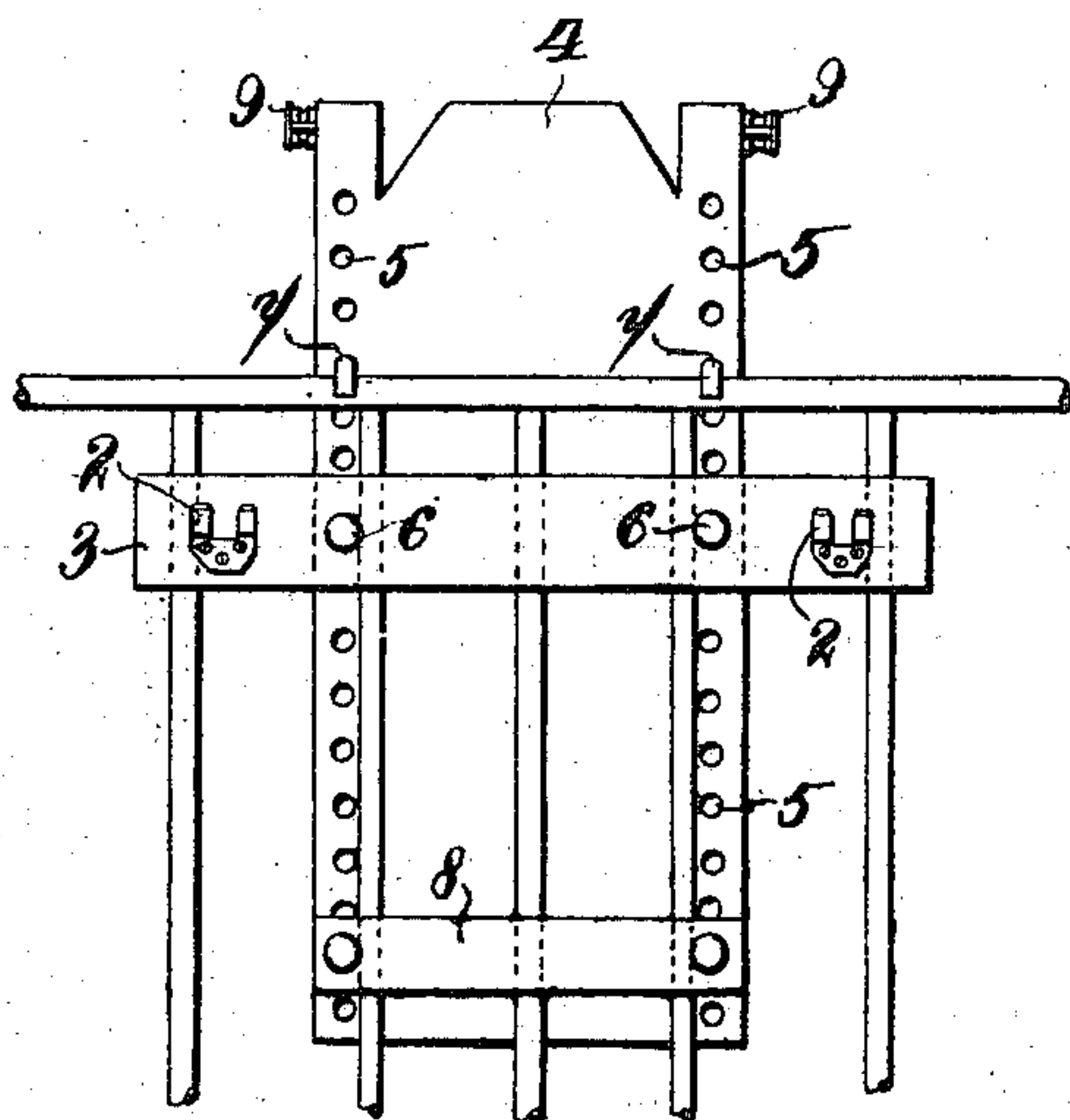
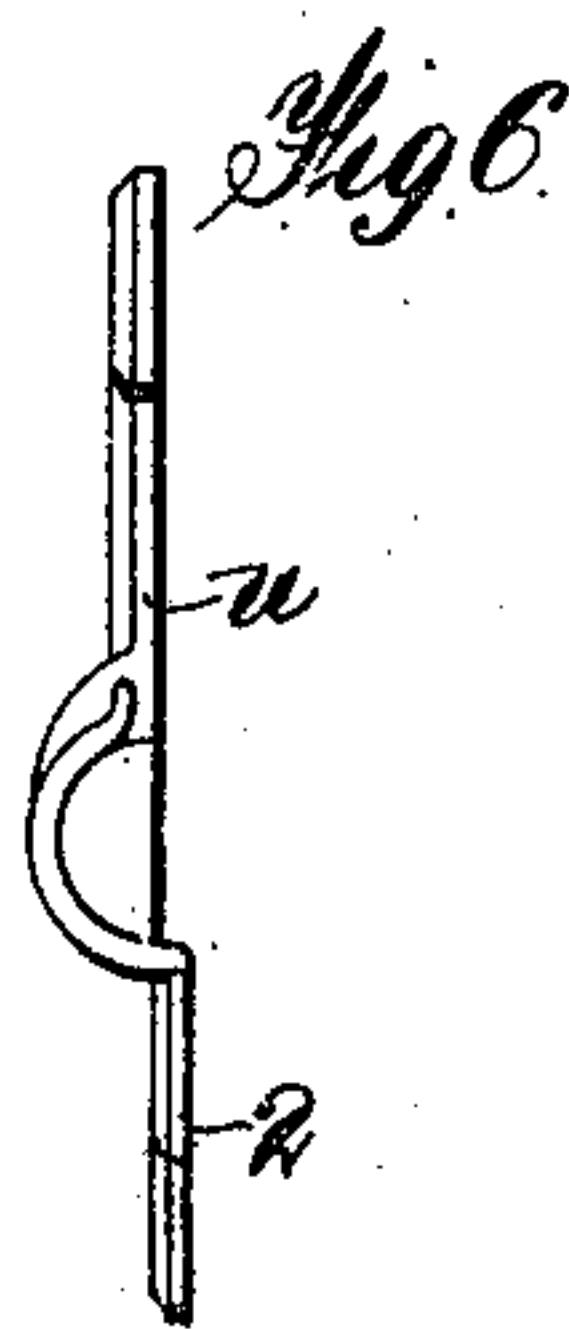
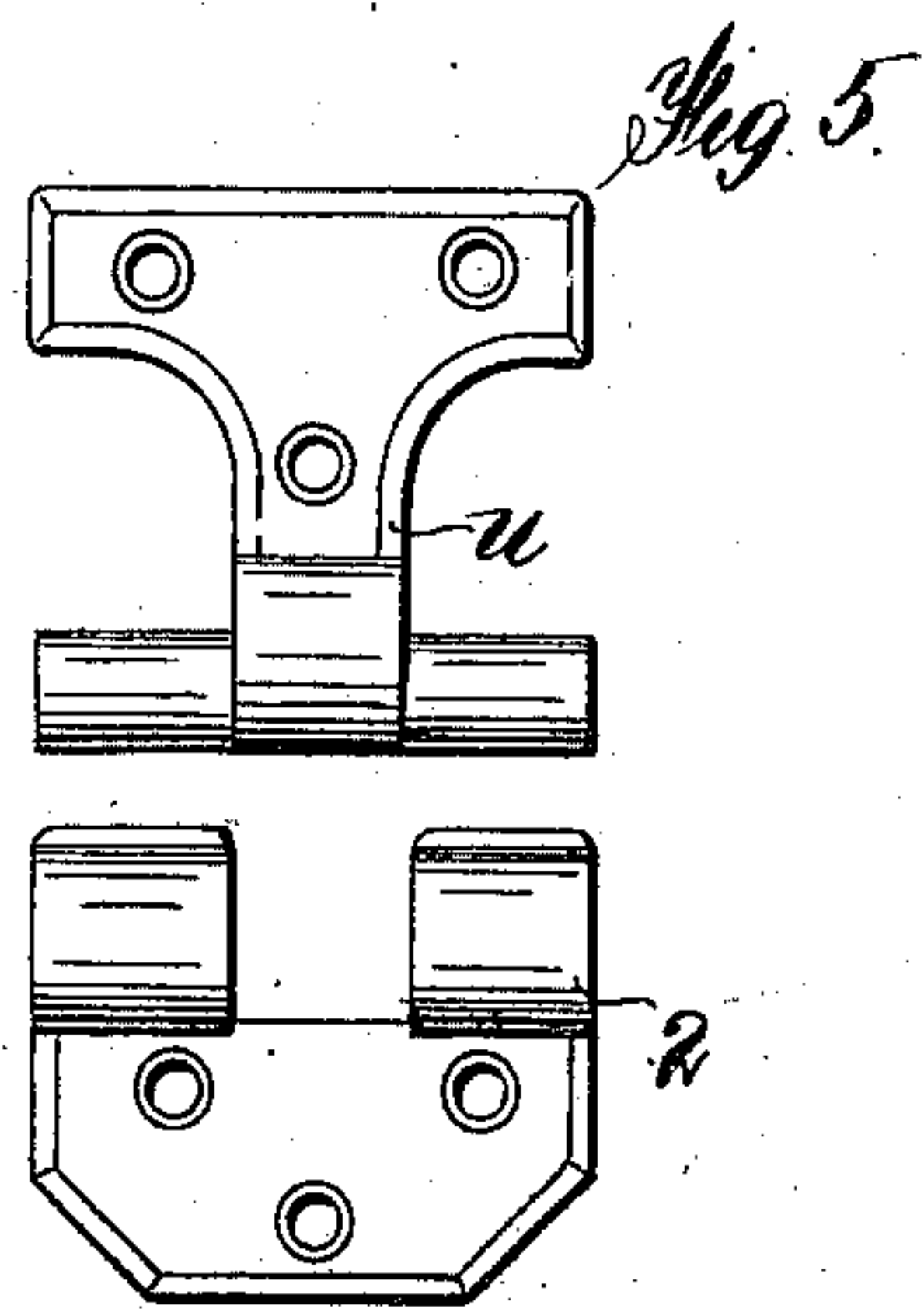


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975,906.

2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

JAMES TAYLOR, OF LONDON, ENGLAND.

ATTACHMENT FOR BEDSTEADS AND THE LIKE.

975,906.

Specification of Letters Patent. Patented Nov. 15, 1910.

Application filed July 19, 1909. Serial No. 508,503.

To all whom it may concern:

Be it known that I, JAMES TAYLOR, a subject of the King of England, residing at 236 Pentonville road, King's Cross, in the county of London, England, have invented certain new and useful Improvements in Attachments for Bedsteads and the Like; and I 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.

This invention relates to an attachment for bedsteads and the like and refers to a simple device which can be folded into a small compass, say, against the back of the bed or the like and when opened out forms a back rest, combined with a table, reading desk or the like.

According to one way of carrying out this invention, I provide a frame, preferably rectangular in shape, and I pivot to each of the side members of the frame, preferably about the middle of such members, two arms, which carry at their other ends a table, reading desk or the like. Pivoted to said arms at any suitable part between the back frame and the table or the like is another frame carrying the back rest. The upper ends of the frame carrying the said rest are also preferably connected to the top or other suitable position on the back frame which gives the back rest an inclination dependent upon the position of the side arms carrying the table, but at the same time enables the whole device consisting of the back rest and table and arms and other parts connected to them to be folded flat against the back.

It will be understood that the back rest is pivoted to the side arms at such distance from the table, reading desk or the like that the device can be pulled down and placed in position with the patient sitting up in bed, there being plenty of space left for this purpose. The back rest before referred to may be provided with any suitable material for supporting the back. For instance, it may consist of a frame with laths stretched across or it may be caned after the manner of a chair seat or provided with stuffing or upholstery or it may be furnished with springs or the like, or in some cases it may have a loose upholstered cushion which can be attached to it and readily removed for cleaning and other purposes when required.

To facilitate the raising of the whole at-

tachment when required I may in some cases adapt thereto a cord or the like attached to any suitable part passing over a pulley and communicating with a counterbalance weight which will be set in motion by a very slight push so that when it is required to move the apparatus out of the way very little force has to be exerted to effect this. With regard to the table this may in some cases be pivoted to the ends of the arms carrying it in such a way that it can be turned into an upright or other suitable position in order to clear the head of the patient as the apparatus is being moved into or out of position, or in place of pivoting the table to such arms I may fit it with tongues to slide in suitable grooves in the said arms means being furnished to retain it in any required position.

Spring catches may be provided for locking the table or reading desk in position when required so that when used by the patient it is held quite rigid. And in order that this invention may be better understood, I will now proceed to describe the same with reference to the drawing accompanying this specification, in which:—

Figure 1 is a side elevation of the device fixed in position on a bed; Fig. 2 is a plan of same; Fig. 3 is a side elevation in the folded position. Figs. 4 to 7 are details hereinafter referred to.

The same letters of reference are employed to denote the same parts in all the views:—

a is the framework forming the backrest, which may be caned, wired or provided with stuffing or the like at *b* as previously described. Hinged to the sides of the framework *a* are two arms *c, c*. *f* is the table. This table has formed at the edges tongues which slide in grooves *g* in the arms *c*. The sides of the tongues are provided with flat springs *h*, one of which is shown dotted at Fig. 4. The effect of these springs is to retain the table *f* wherever required when pushed along the grooves *g*. The outer ends of the arms *c* are connected by means of a cross piece *d*, which forms a stop to limit the motion of the table, reading desk or the like. Beneath the cross piece *d* are hinged two legs *m* provided with stops *n* to prevent them passing the vertical position. These supports *m* are intended to rest on the bed or the like and take the weight. Each of the arms *c* may be provided with a number

of recesses *q* so that the table may be brought nearer to or farther from the patient as may be required. In the drawing one such recess *q* is shown.

5 *r* are springs attached at either side of the framework *a* which retain the arms *c* in the closed position when they are folded up against the said framework *a*.

10 Hinged to the back of the framework *a* is a board *s* which may be replaced by a rectangular framework, if desired. The edges of this board *s* slide in grooved guides *t*, such guides being the side members of a framework attached to one half of detach-
15 able hinges *u*. The framework is also provided at its center with two strengthening struts *v* so placed as to form a slot *w* between them. Along this slot works a bolt *x* which passes through a hole in the board *s* and is provided with a fly nut *z* for locking
20 the board *s* in any required position with respect to the frame carrying the grooves *t*, thus enabling the back rest *b* to be placed in any required position.

25 The framework carrying the grooved members *t* is, as before stated, provided with one half *u* of hinges of peculiar formation, shown in greater detail at Figs. 5 and 6, from which it will be seen that the part *u* is
30 the movable part forming the pin of the hinge, while the part 2 forms the fixed part.

Fig. 5 shows a front view of the parts to be fitted together and Fig. 6 shows side
35 view of the parts fitted together. The convenience of the arrangement is that the parts are immediately attachable and detachable, as will be seen from comparing the various figures.

40 The fixed parts 2 of the hinges are attached to a clamping bar 3 which is fitted in front of the bed rails. At the back of the bed rails is fitted an attaching member shown in the drawings as comprising a
45 board 4 (see Fig. 7) having two rows of holes 5, into any of which the clamping bolts 6 may pass in order to clamp the clamping bar 3 in position. This attaching member 4 is held to the top rail of the bed
50 by means of suitable hooks 7, which hooks may pass through any of the holes 5 so as to vary the height of the whole device. 8 is an auxiliary clamping bar to further strengthen the arrangement. All the clamp-
55 ing bar bolts are provided with wing nuts to facilitate easy attachment and detachment. The board 4 is provided at each side at the top with pulleys 9. Over these pulleys 9 pass cords 10 connected at 11 to the back
60 rest *b* and to a weight. I prefer to make this weight in the form of a chamber for containing water and the like so that such weight may be varied to suit requirements of particular cases.

In adjusting the device, assuming that it
65 is folded up as shown at Fig. 3, where it will

be seen that the hinged framework formed by the board *s* and grooved framework *t* lies within the back of the frame *a* and that the arms *c* are folded against the said framework *a* and held in that position by the springs *r*,
70 the weight keeping the whole device up in this closed position, the patient is set up in bed and then the framework is folded downward until it meets the bed, and adjusted at
75 a suitable angle for the patient's comfort, the board *s* having been suitably adjusted in the grooved framework *t* and the bolt *x* having been tightened up in the required position. When a back rest alone is neces-
80 sary this is all that need be done, but when it is required to provide a table or reading desk, the arms *c* are released from engage-
85 ment with the two clips *r* and the table *f* is lowered, care being taken to avoid the patient's head during the operation. When it is in the lowered position, it is adjusted by
90 sliding to the required position. The legs *m* are rested upon the bed and the patient then has the table in front of him or her, and has, in addition, the advantage of the support of the arms *c*.

It will be understood that I may modify the constructional details of carrying out my invention without departing from the prin-
95 ciple thereof.

What I claim and desire to secure by Letters Patent of the United States of America, is:—

1. In a bed attachment, the combination of a back rest, an extensible support piv-
100 otally connected at one end thereto, an attaching member secured to the bed frame, a cross bar and means for adjusting same vertically of said attaching member, and
105 hinged connections between said cross bar and the other end of said extensible support, substantially as described.

2. In a bed attachment, the combination of a back rest, an extensible support piv-
110 otally connected at one end thereto, an attaching member carried by the bed frame and vertically adjustable thereon, a cross bar adjusted vertically of said attaching member, and hinged connections between
115 said cross bar and the other end of said extensible support, substantially as described.

3. In a bedstead, the combination of a back rest, an extensible support pivotally
120 connected at one end thereto, an attaching member provided with a plurality of vertically arranged openings, a cross bar adjustable along said openings, and hinged
125 connections between said cross bar and the other end of said extensible support, substantially as described.

4. In a bed attachment, the combination of a back rest, an attaching member pro-
130 vided with a pair of vertical rows of openings, attaching means operating in said

openings to adjustably secure said member to the bed frame, a cross bar provided with attaching means cooperating with said openings to adjustably support said cross bar thereon, an extensible support hinged at one end to said back rest, and hinged connections between the other end of said support and said cross bar, substantially as described.

5. In a bed attachment, the combination of a back rest, a rectangular member, a rectangular three-sided member having channeled sides receiving the side edges of said rectangular member, means for adjustably securing said members together, means pivotally connecting one of said members to said back rest, and means for pivotally connecting the other of said members to the bed frame, substantially as described.

6. In a bed attachment, the combination of a back rest, a rectangular member, a three-sided member having channeled ends receiving the edges of said rectangular member, said three-sided member being provided with a slotted strut extending inwardly, and a thumb screw connected to said rectangular member and cooperating with said slot to adjustably lock said members together, one of said members being hinged to said back rest and the other of said members being

pivotally connected to the bed frame, substantially as described.

7. In a bed attachment, the combination of a back rest, a support extending between said back rest and the bed, means for hanging said support to said back rest and said bed, a pulley mounted on said bed, and a cable connected at one end to said back rest, reeving over said pulley and provided at its other end with a weight, substantially as described.

8. In a bed attachment, the combination of a back rest, an attaching member adjustably mounted on the bedstead, a cross bar adjustably mounted on said attaching means, an adjustable support between said back rest and said cross bar and pivotally connected at its respective ends, pulleys, mounted on said attaching member, and cables secured at one end to said back rest, thence passing over said pulleys, and provided at their other end with weights, substantially as described.

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

JAMES TAYLOR.

Witnesses:

ALEX BROWNE,
HAROLD ROWLEY.