

(No Model.)

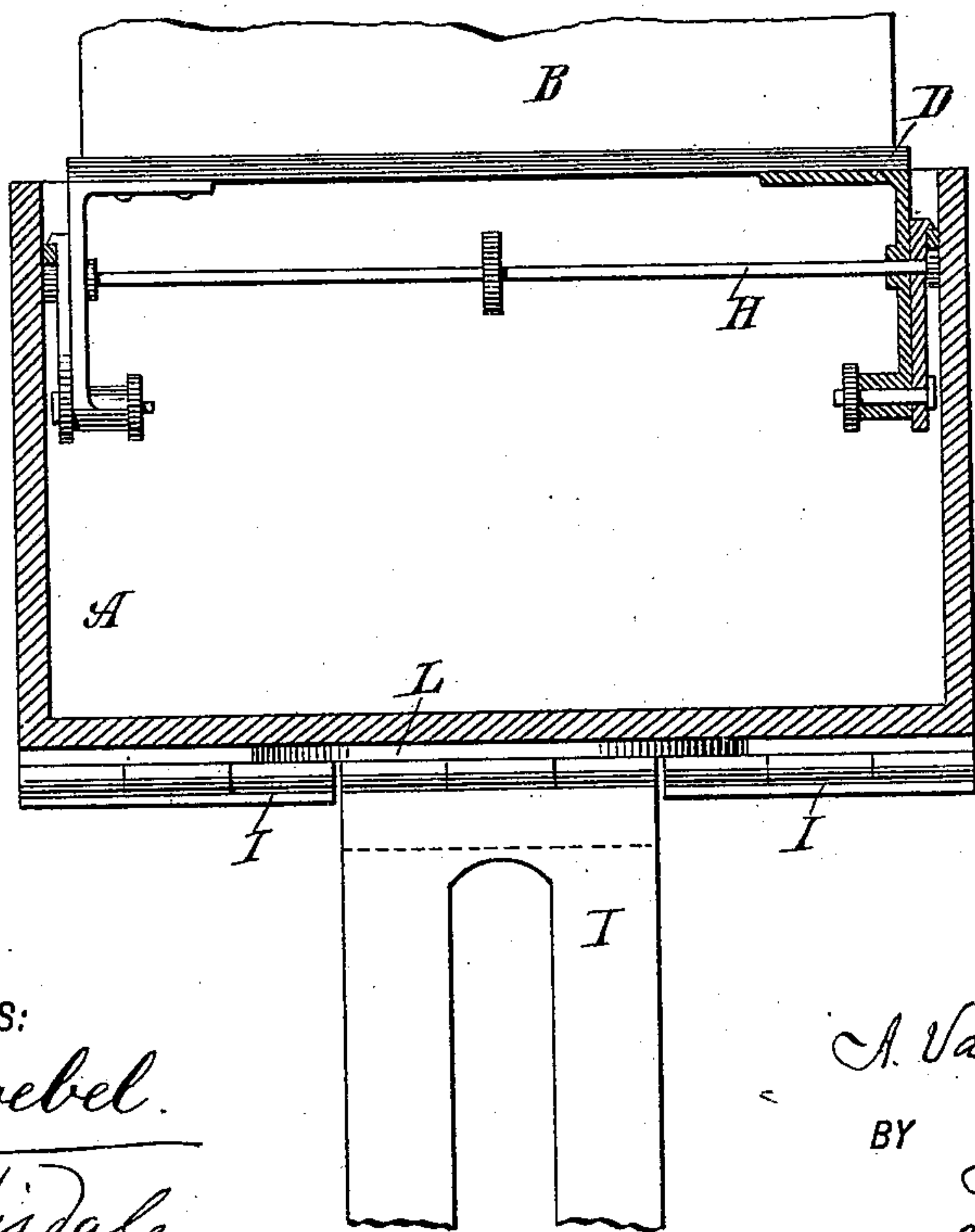
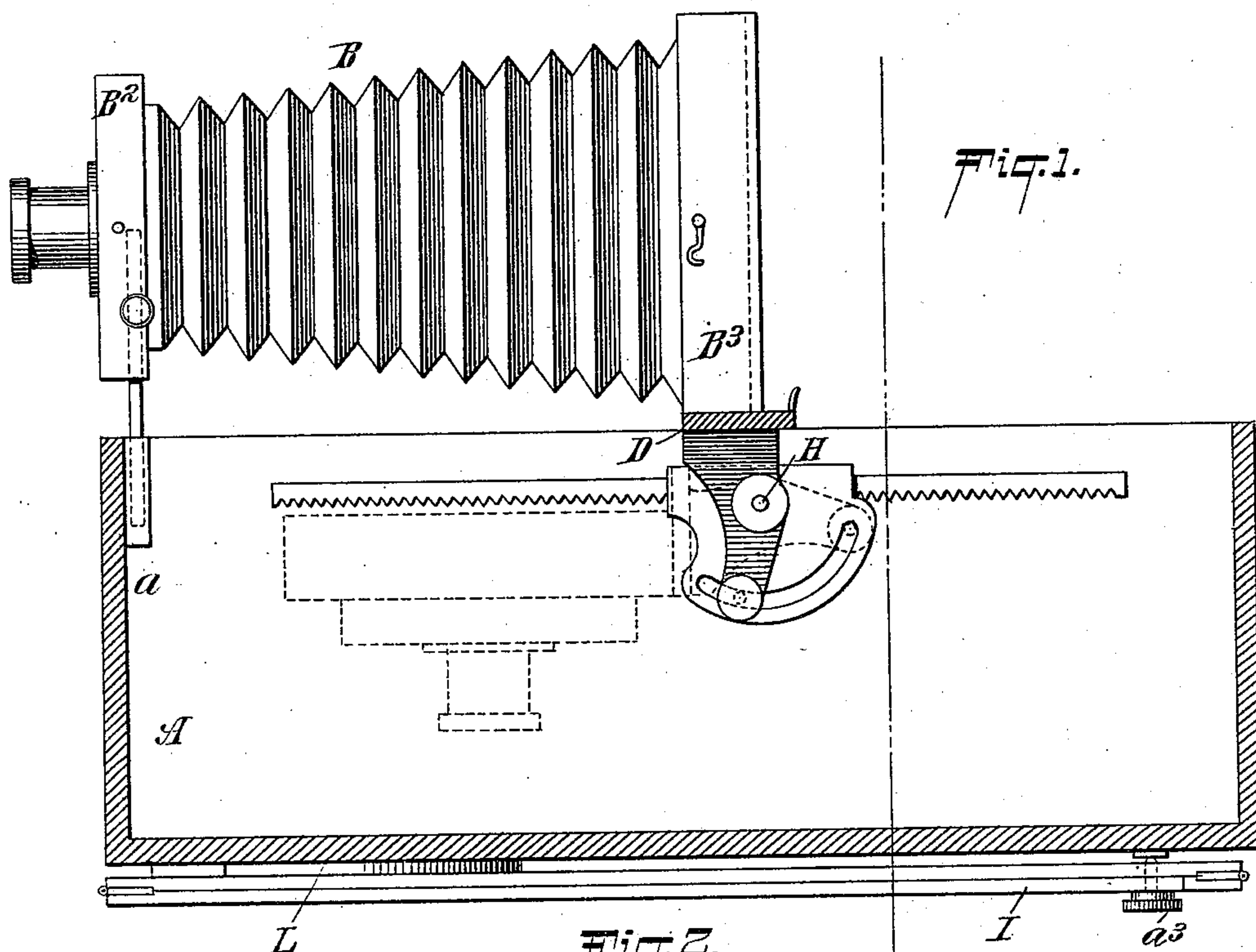
3 Sheets—Sheet 1.

A. VANDERBEEK.

TRIPOD OR STAND FOR CAMERAS OR FOR OTHER PURPOSES.

No. 494,401.

Patented Mar. 28, 1893.



WITNESSES:
William Goebel.
Wm S. Tisdale.
— " —

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A. Vanderbeek
BY *J. F. Bourne*
his ATTORNEY.

(No Model.)

3 Sheets—Sheet 2.

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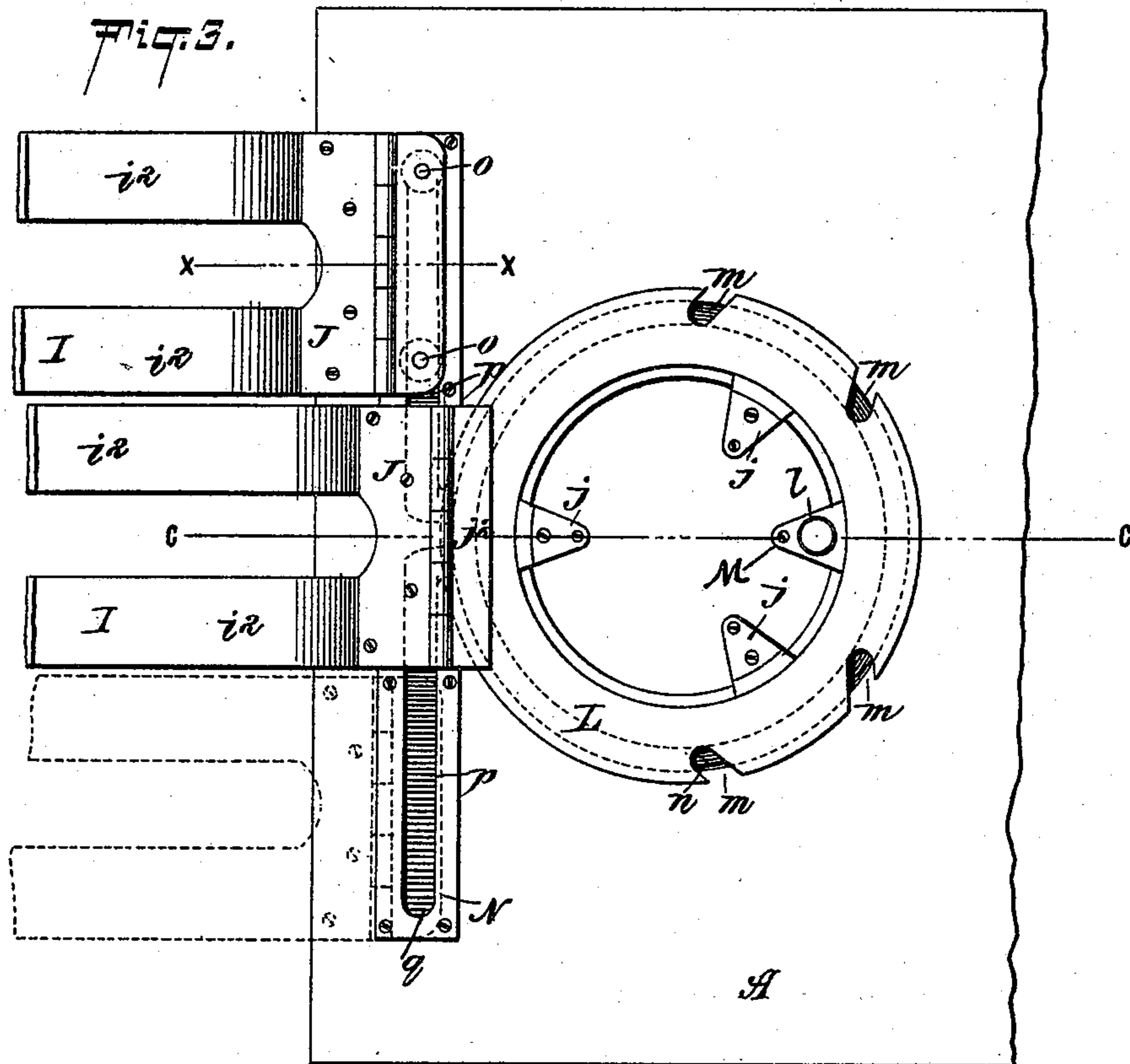


Fig. 4.

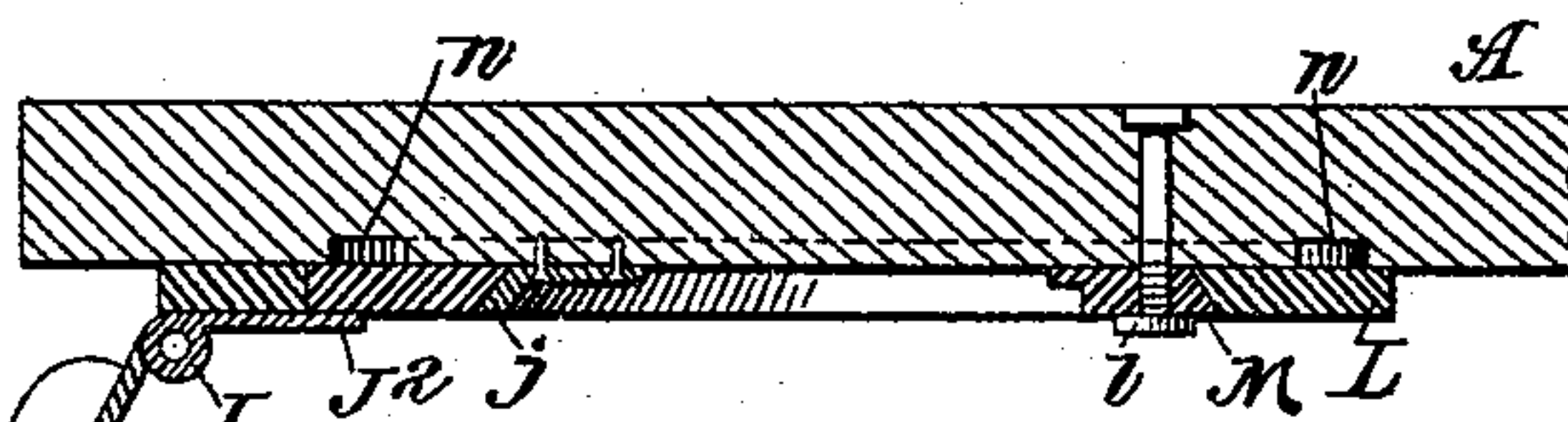
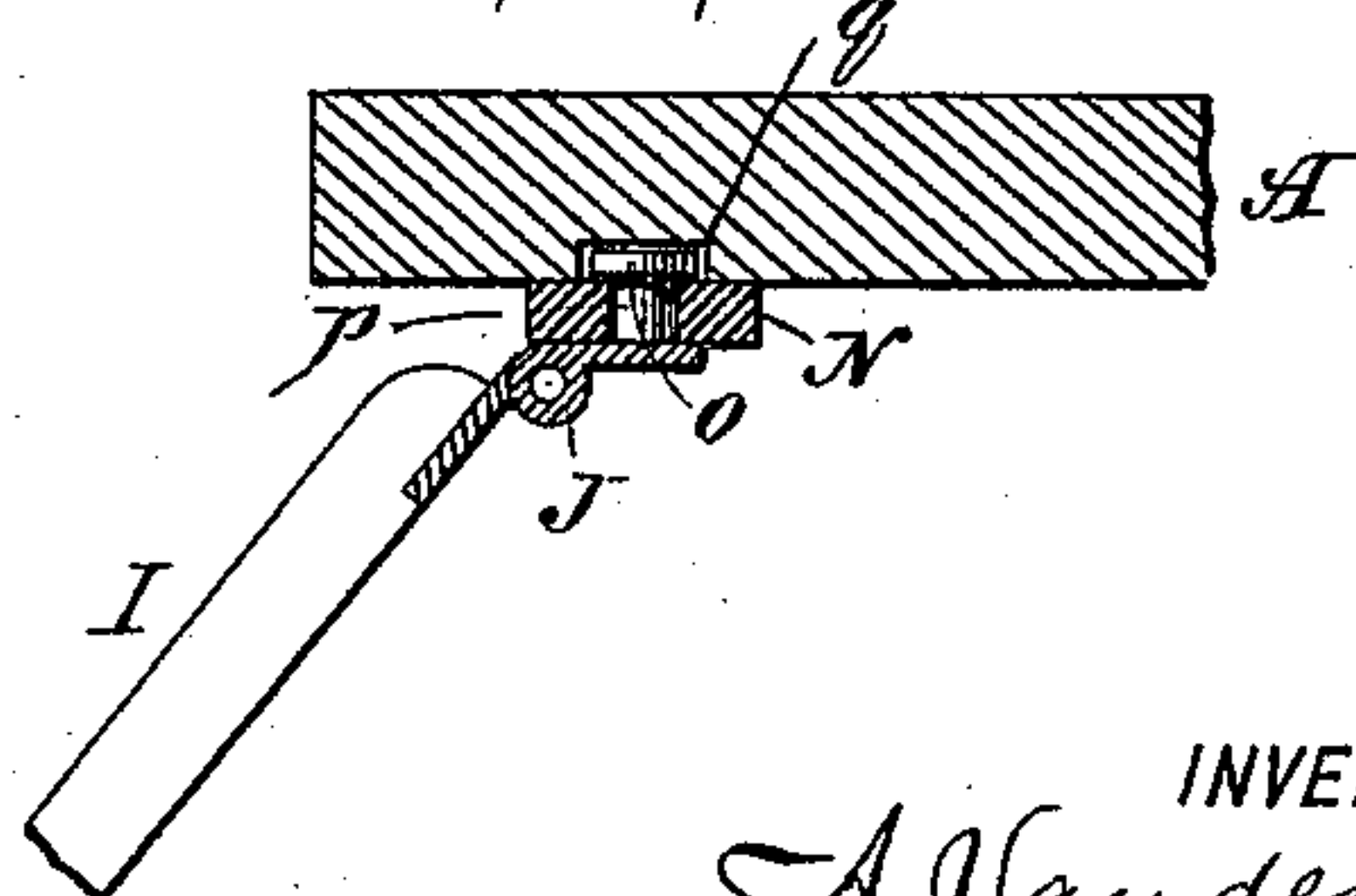


Fig. 5.



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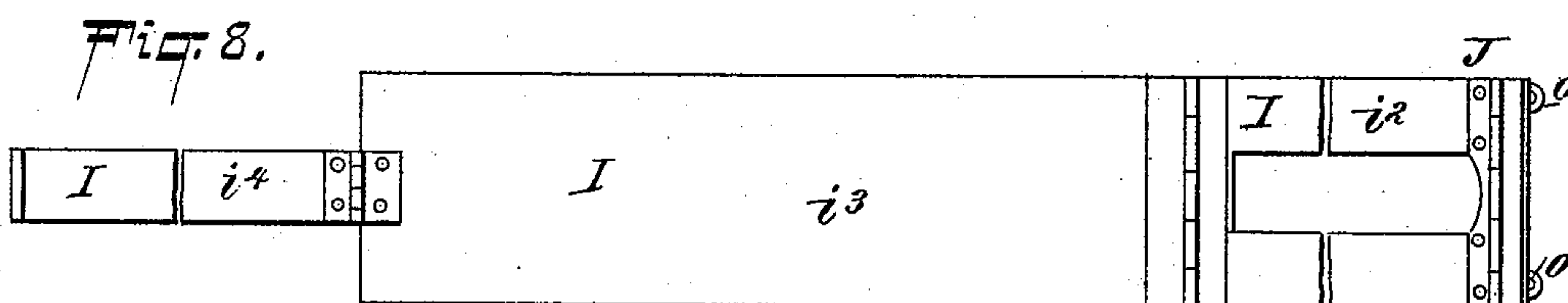
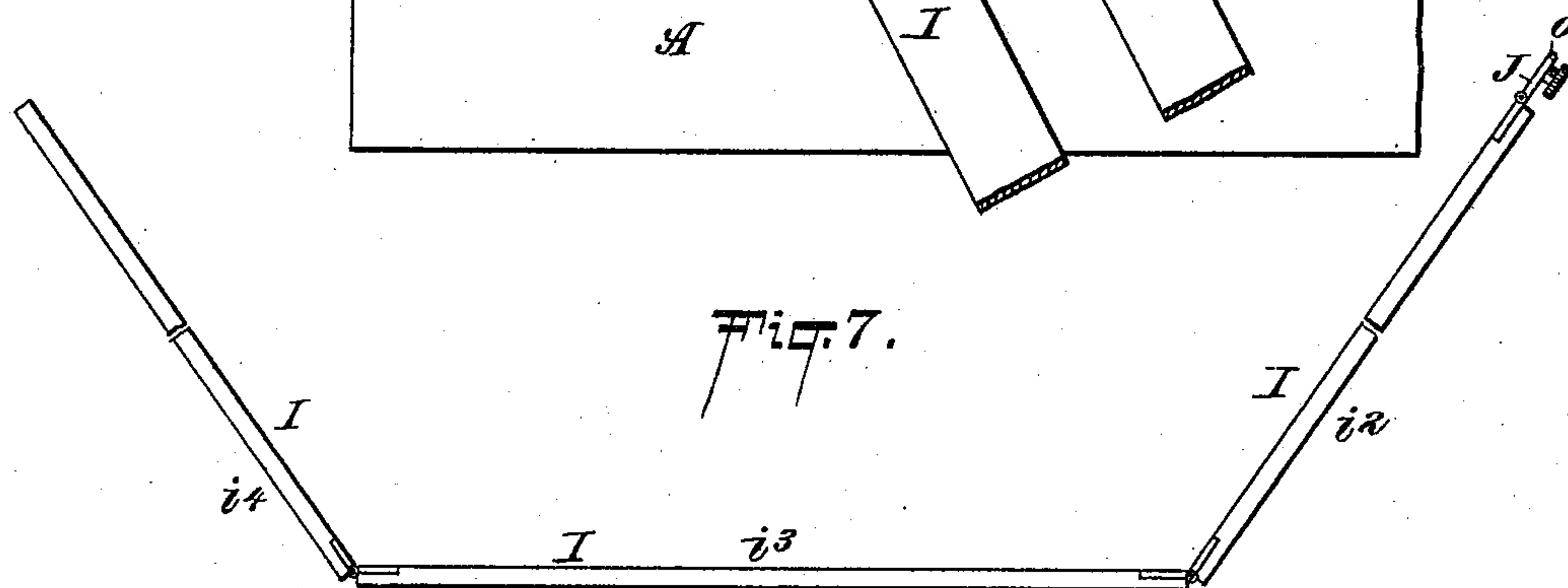
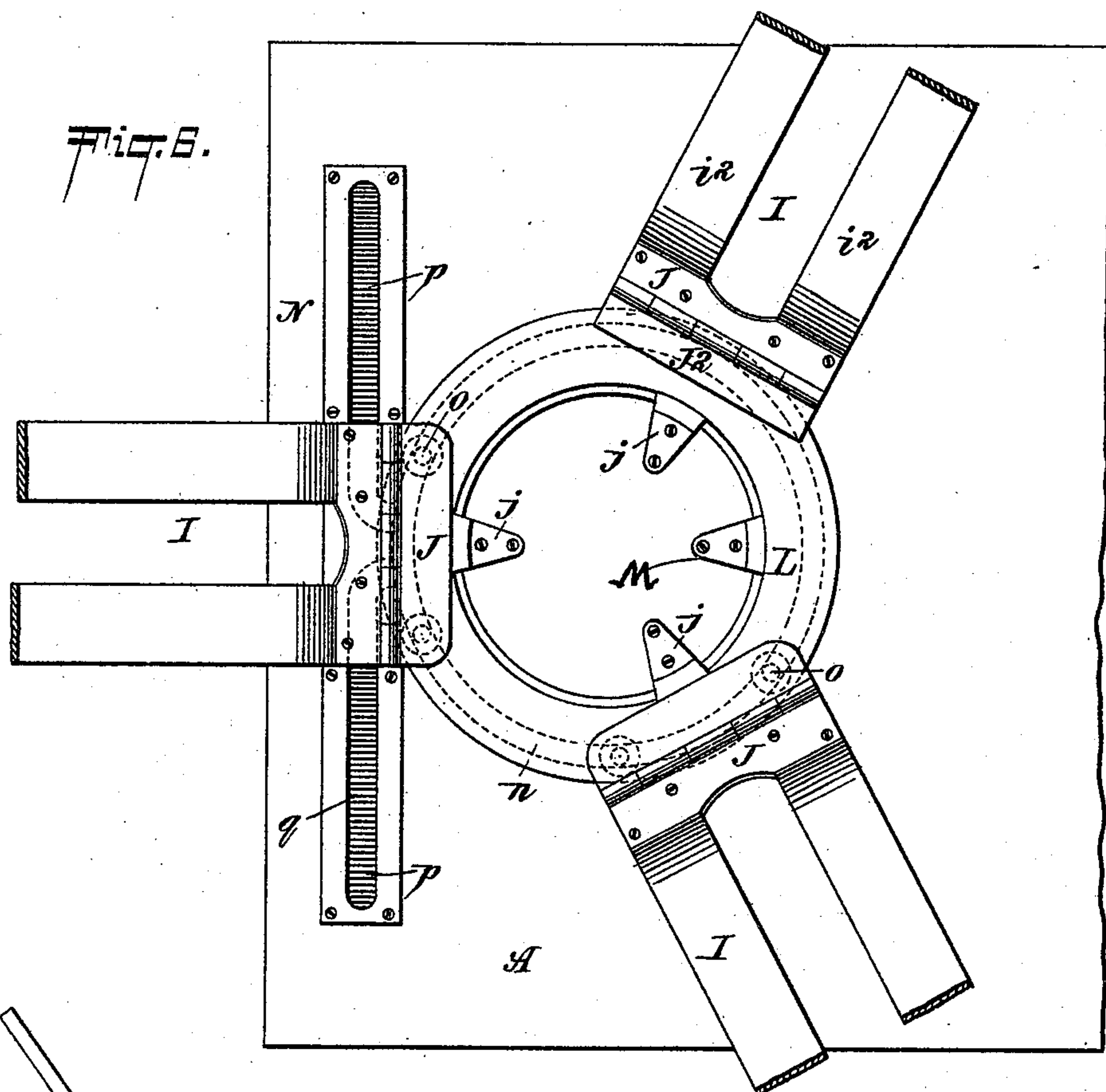
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UNITED STATES PATENT OFFICE.

ABRAHAM VANDERBEEK, OF HARTFORD, CONNECTICUT.

TRIPOD OR STAND FOR CAMERAS OR FOR OTHER PURPOSES.

SPECIFICATION forming part of Letters Patent No. 494,401, dated March 28, 1893.

Application filed April 28, 1892. Serial No. 431,006. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM VANDERBEEK, a citizen of the United States, and a resident of Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Tripods or Stands, of which the following is a specification.

The object of my invention is to arrange the legs to form a tripod or stand in such manner that they can be folded against the board, box or receptacle to which they are applied, preferably side by side, so as not to appreciably increase the thickness of the same and yet be readily adjusted into position corresponding to the angle of a triangle so as to be extended to support the board, box or receptacle.

The invention consists in the novel details of improvement and the combinations of parts that will be more fully hereinafter set forth and then pointed out in the claims.

Reference is to be had to the accompanying drawings forming part hereof, wherein,

Figure 1 is a partly sectional side elevation of a box or receptacle having my improvements applied. Fig. 2 is a vertical cross section of the same. Fig. 3 is a plan view of the tripod mechanism the legs being in the normal position for folding, but thrown back to show the parts. Fig. 4 is a longitudinal section on the plane of the line *c, c*, Fig. 3. Fig. 5 is a detail section on the plane of the line *x, x*, Fig. 3. Fig. 6 is a view corresponding to Fig. 3, the legs being in the positions they assume when arranged to support the box or receptacle. Fig. 7 is an edge view of the legs and Fig. 8 is a face view thereof.

In the drawings the letter A, indicates a suitable carrier box or receptacle or other support.

I have shown the legs of the tripod or stand as connected to the box or receptacle A, so that no separate parts need be carried as heretofore.

The letter I, indicates the legs of the tripod or stand which are shown in three pieces hinged together for extension, although they may be otherwise connected for that purpose. I have shown the upper joint of the legs I, as composed of parallel strips *i*², the center joint *i*³, as in one wide piece, and the lower joint

*i*⁴, as a single piece centered so as to fold between the strips *i*², when the legs I are folded upon the box or receptacle. By this means the thickness of the folded legs is reduced. The solid strip *i*³, lies on the outer side, so that when the thin legs are folded against the bottom of the box or receptacle A, they will form substantially a false bottom to the box or receptacle A (see Fig. 2). But this specific arrangement of the legs can be varied as desired. I connect the upper ends of the legs pivotally with the support box or receptacle A, so that they can be placed approximately at the angles of a triangle, and yet be placed side by side parallel to the box or receptacle when out of use. For this purpose I have provided the following arrangement:—The upper ends of the legs I, carry hinges J, that are adapted to be connected with a rotary ring or disk L, on the bottom or outer side of the support box or receptacle A. The ring or disk L, may be suitably carried or pivoted so as to turn on the box or receptacle, and for this purpose I have shown its inner edge beveled inwardly so as to engage beveled cleats *j*, that are connected to the box or receptacle A, as in Figs. 3 and 4, whereby the ring L, is supported to turn on the box or receptacle. To hold the ring firmly in position at any point I have provided an adjustable cleat M (somewhat similar to *j*) which also engages the ring or disk L, and can be fastened in position by a thumb nut or the like *l* (see Fig. 4). By means of said cleats the ring or disk L, will be firmly supported at all points to take up the strain of the three legs.

I prefer that the hinge J of one of the legs I shall be fastened to the ring or disk L (as at J³), while the other legs I, can be adjustably connected thereto so as to permit the three legs to lie parallel on the bottom of the box or receptacle A. To accomplish this recesses *m*, are cut in the periphery of the ring or disk L (see Fig. 3) the recesses *m*, being arranged in pairs, the center of each pair lying approximately in the angles of a triangle taken from the center of the hinge J, at J². Beneath the ring L, in the support box or receptacle A, is a circular groove *n*, (see Figs. 3 and 4). Two of the hinges J, carry headed studs *o*, that are adapted to enter the recesses *m*, and to travel in the groove *n*, (see Fig. 6).

whereby the legs I, are adjustably connected to the ring L.

To detach the legs I, from the ring L, and retain them on the support box or receptacle A, I have provided a bar N, having slots *p*, that lie over a groove or grooves *q*, in the support box or receptacle A, and which open into the groove *n*, (see dotted lines Figs. 3 and 6). The studs *o*, are adapted to enter the slots *p*, and grooves *q*, as in Fig. 5, whereby the legs I will be held on the box or receptacle A.

To close the legs against the box or receptacle A, the ring or disk L, is turned to bring the recesses *m*, successively in line with the slots *p*, in bar N, whereby the studs *o*, can be caused to enter said slots, through which they can pass to place the legs in the position shown by full and dotted lines in Fig. 3. The leg I, that is secured to the ring L, will in this case lie between the adjustable legs. To set up the stand or tripod the ring L, is first turned to bring one pair of recesses *m*, in line with one slot *p*, whereby the studs of one leg I, are caused to enter said recesses *m*. The ring L, is then turned carrying around said leg I, until the other pair of recesses *m*, are brought in line with the other slot *p*, successively to adjust the remaining leg I, in the recess *m*, as explained. The ring L, is then turned to the desired position and fastened by the cleat M.

The free ends of the legs I, can be connected adjustably to the support box or receptacle A, by a suitable thumb screw *a*³, or otherwise as desired. By means of the foregoing a very simple arrangement is provided for permanently yet adjustably connecting the legs I, to the support box or receptacle A. The parts are not liable to get out of order, are strong and durable and readily adjusted, and can be put into compact form for transportation.

It is evident that this tripod arrangement is not confined to use on a box or receptacle as it may be applied to any board or frame that the legs could be attached to.

Having now described my invention, what I claim is—

1. The combination of a board or support with the legs of a tripod or stand adjustably carried thereby to fold against the board or support, and also support the latter when extended, substantially as described.

2. The combination of a board or support, with the legs of a stand or tripod adjustably carried thereby in such manner that they can fold parallel on the board or support, and be extended to support the latter, substantially as described.

3. The combination with the legs of a stand or tripod, of a ring or disk, and means for detachably connecting one or more of said legs with said ring or disk, and means for holding

said legs when so detached to permit them to lie parallel, substantially as described.

4. The combination with the legs of a stand or tripod of a ring or disk, said ring or disk having recesses *m* arranged in pairs, and pairs of studs carried by one or more of said legs to enter the corresponding pairs of recesses on the ring or disk to detachably hold the legs to the ring or disk, substantially as described.

5. The combination with the legs of a stand or tripod, of a ring or disk to which said legs are to be attached, and a holder, adjacent to said ring or disk to receive said legs when they are detached from the ring or disk to permit them to lie parallel, substantially as described.

6. The combination of a board or the like with a ring on the same, cleats for holding the ring on the board, and means for locking the ring on its support, and with the legs of a stand or tripod adapted to be attached to the ring, and a holder to receive the legs when they are detached from the ring, substantially as described.

7. The combination of a ring or disk adapted to turn, and having recesses on its periphery, with the legs of a stand or tripod, studs carried by one or more of said legs, and a holder for said legs when they are detached from the ring, substantially as described.

8. The combination of a rotary ring or disk having recesses on its periphery, with the legs of a stand or tripod, hinges on said legs, studs on one or more of said hinges, and with a slotted bar to receive said studs to hold the legs when they are detached from the ring, substantially as described.

9. The combination of a rotary ring or disk having recesses on its periphery, with the legs of a stand or tripod, hinges on said legs, the hinge of one of said legs being secured to the ring or disk, the other hinges carrying studs to enter said recesses, and with a slotted bar to hold said hinges when the legs are detached from the ring, substantially as described.

10. The combination with a ring or disk having recesses on its periphery, with the legs of a stand or tripod to be connected to the ring or disk, hinges on said legs, studs on one or more of said hinges, and a slotted bar whose slot leads to the edge of said ring or disk, and is adapted to receive the studs on the hinges, substantially as described.

Signed at Hartford, in the county of Hartford and State of Connecticut, this 25th day of April, A. D. 1892.

ABM. VANDERBEEK.

Witnesses:

L. C. WORSON,
GEO. WOOD.