

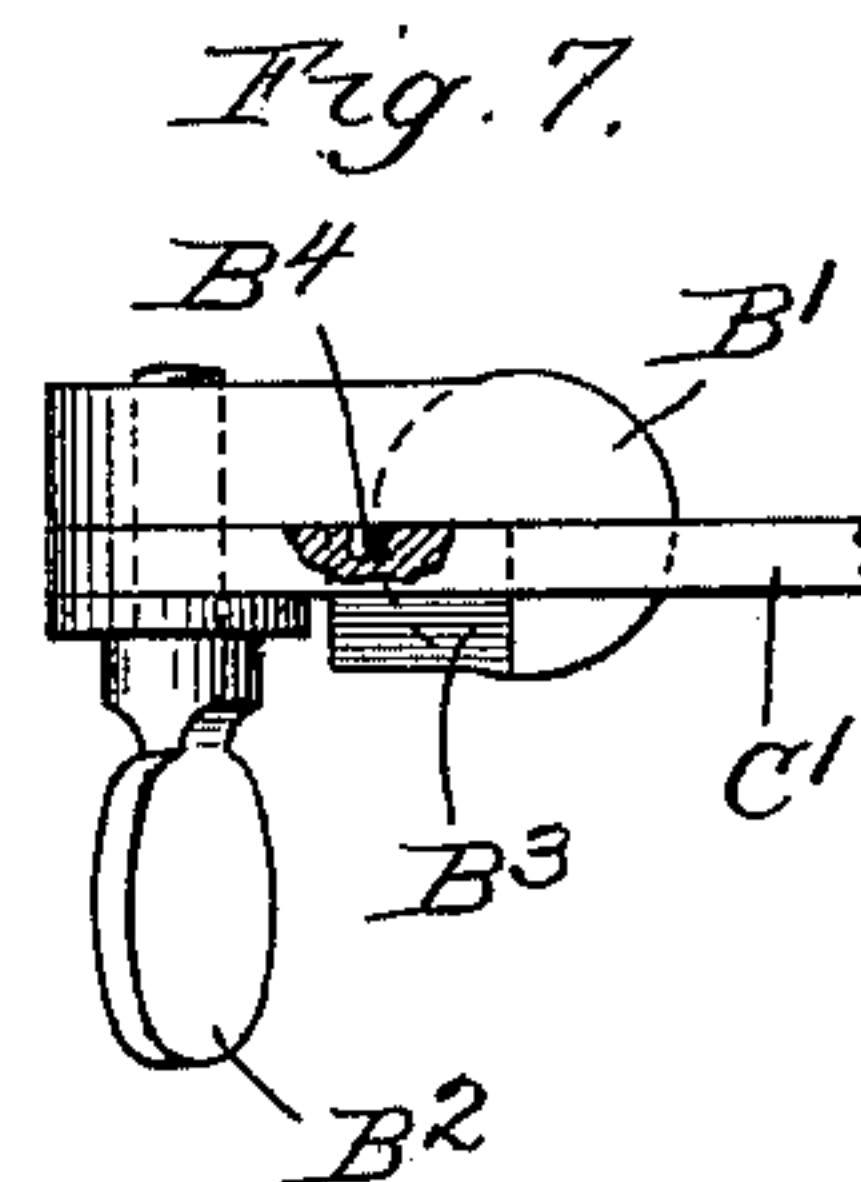
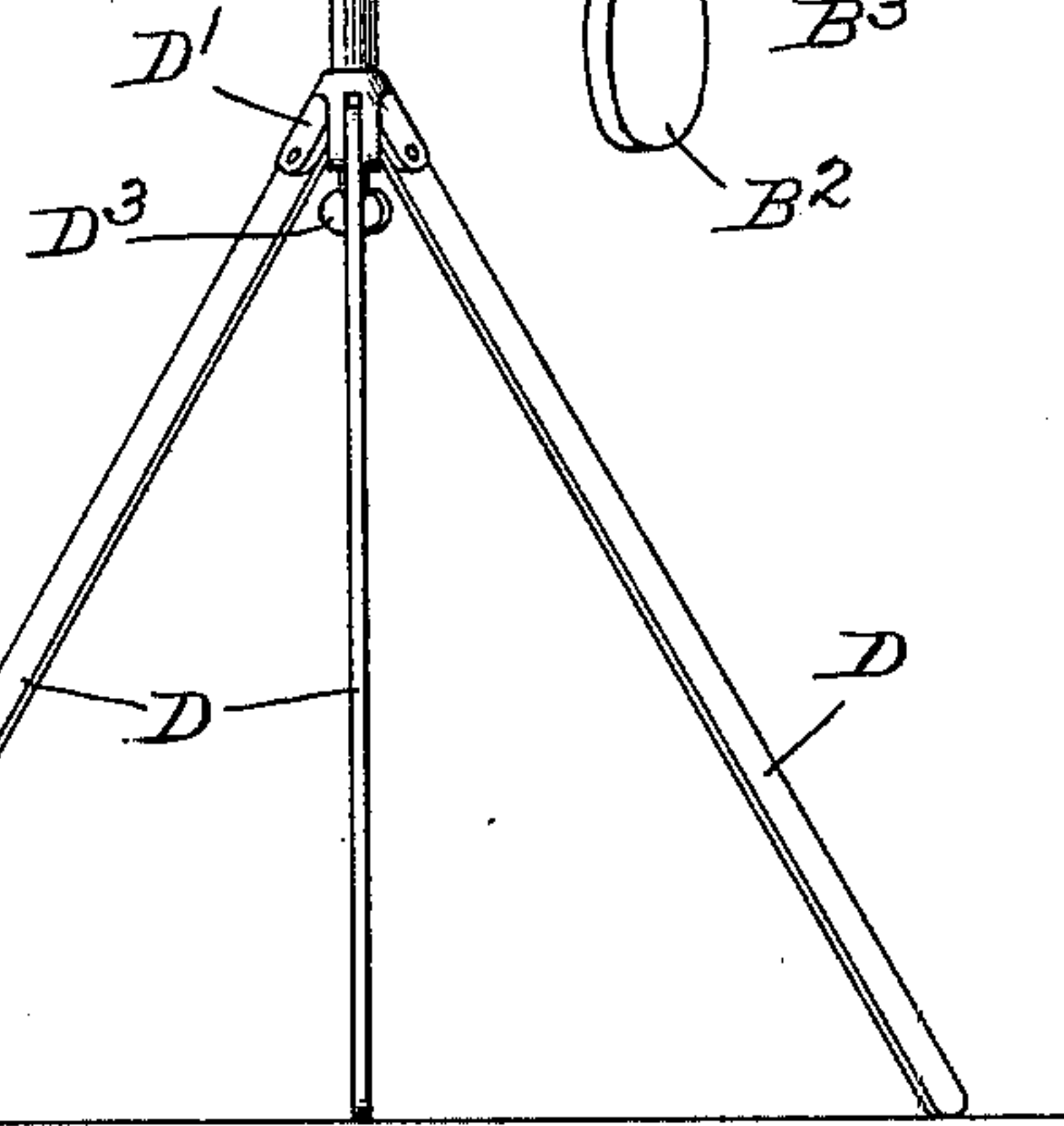
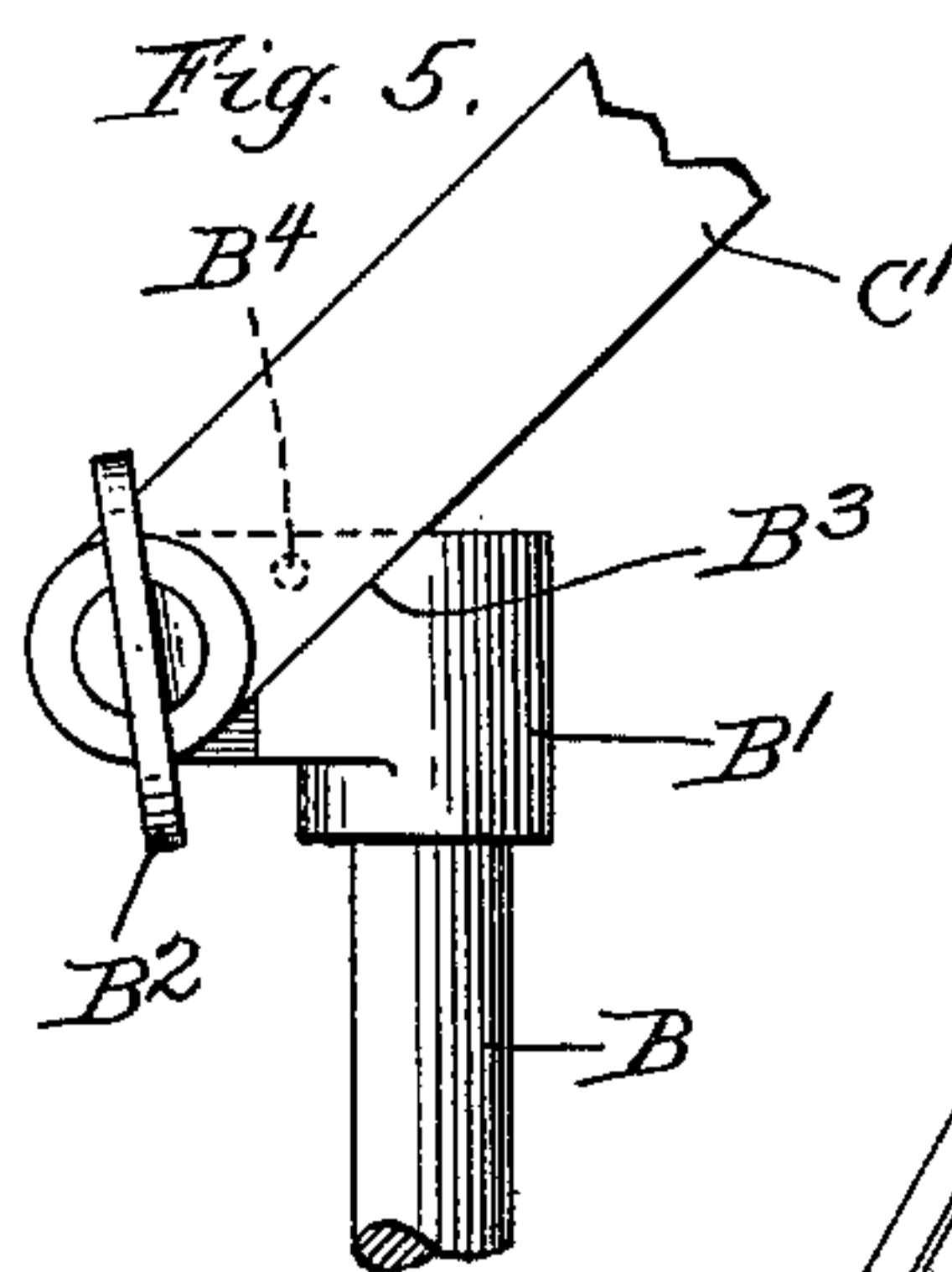
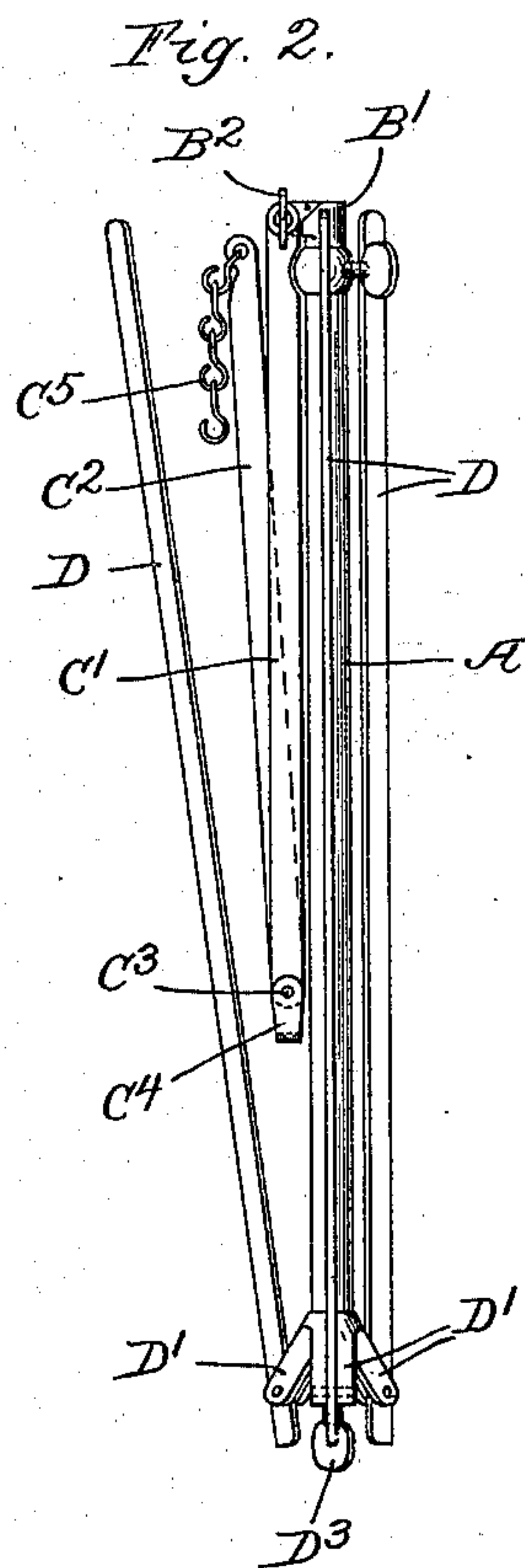
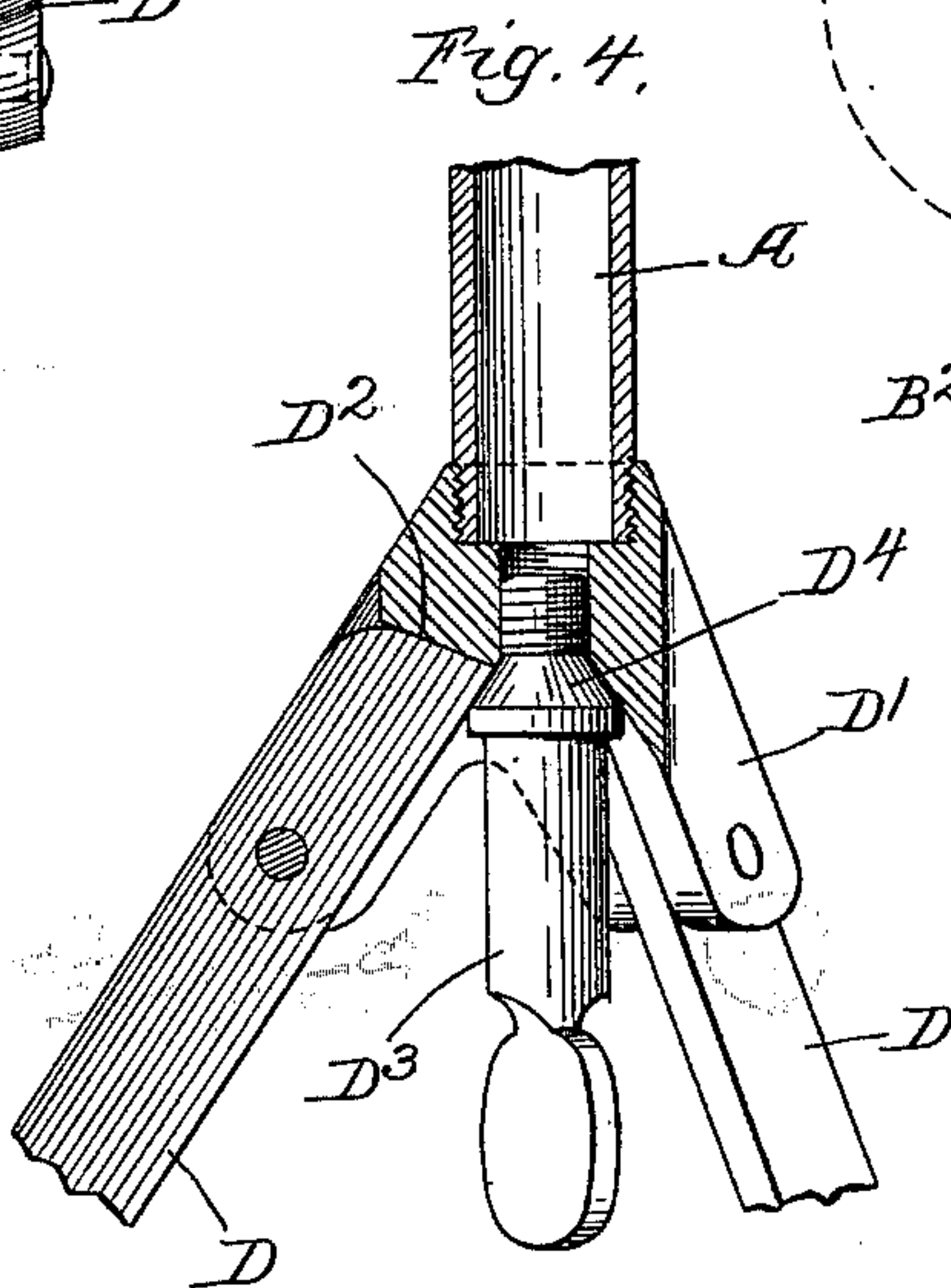
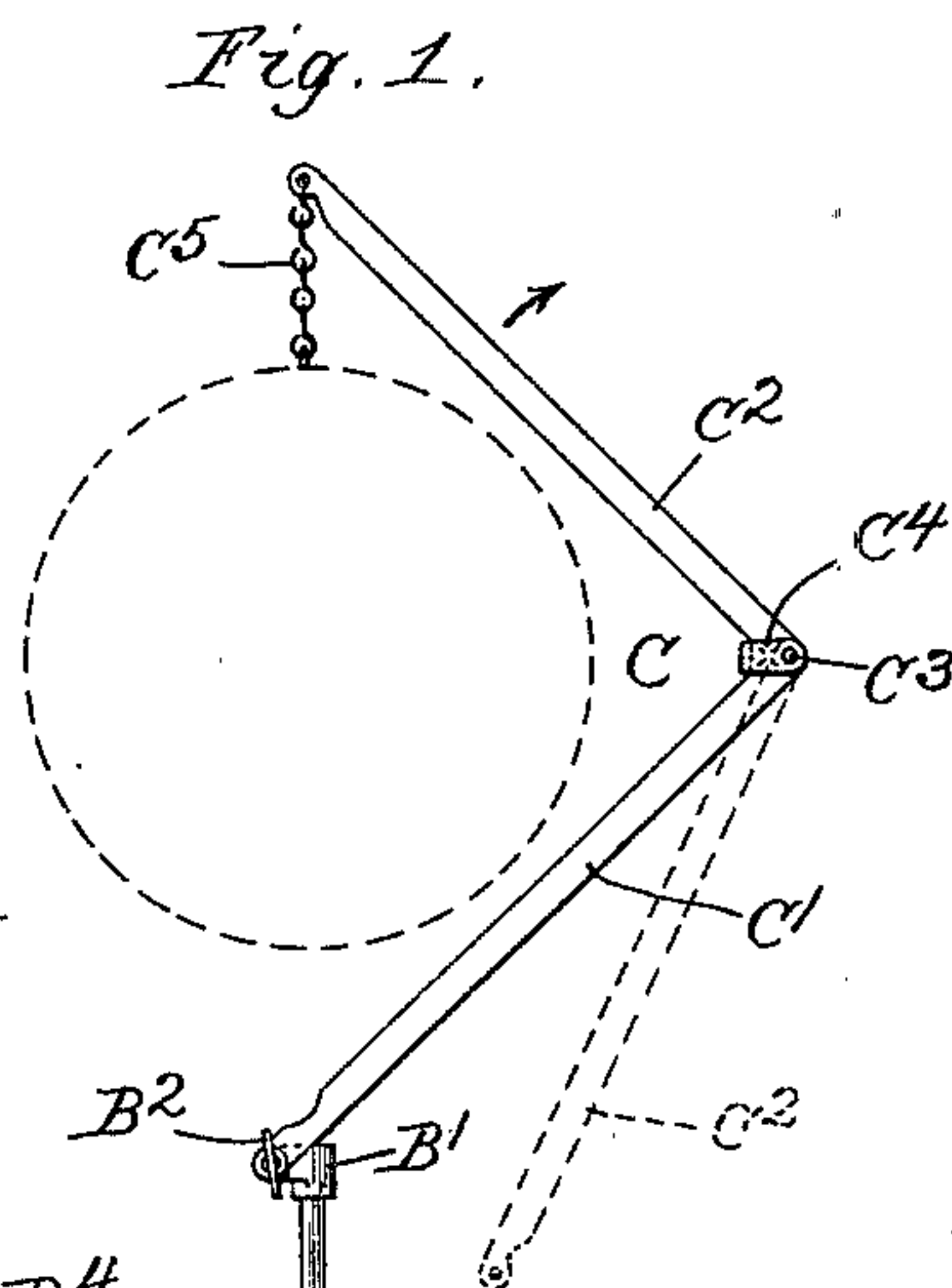
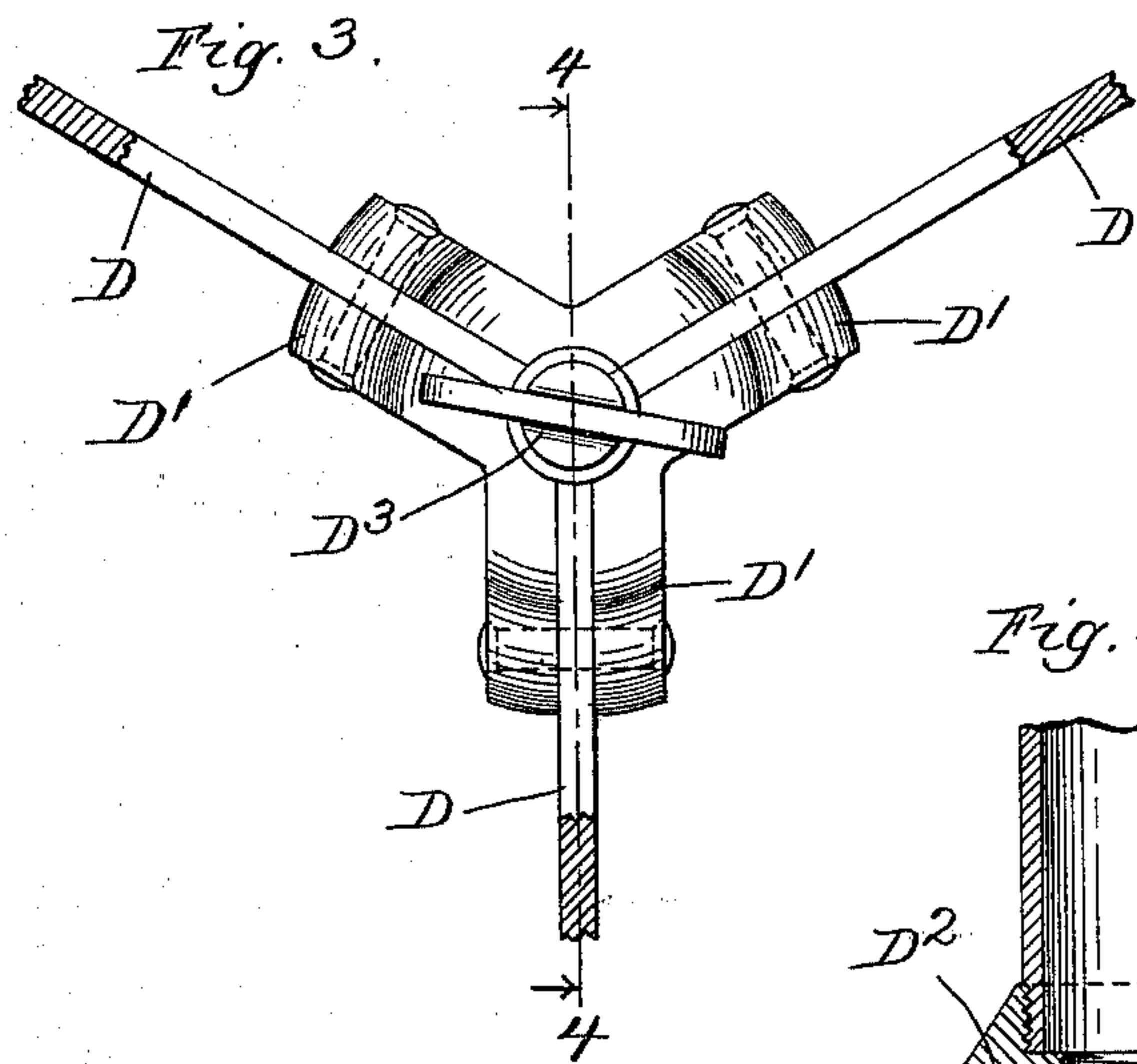
No. 672,705.

Patented Apr. 23, 1901.

L. P. HALLADAY.
FOLDING STAND.

(Application filed Mar. 2, 1900.)

(No Model.)



Witnesses.

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UNITED STATES PATENT OFFICE.

LEWIS P. HALLADAY, OF MARION, INDIANA.

FOLDING STAND.

SPECIFICATION forming part of Letters Patent No. 672,705, dated April 23, 1901.

Application filed March 2, 1900. Serial No. 7,045. (No model.)

To all whom it may concern:

Be it known that I, LEWIS P. HALLADAY, a citizen of the United States, residing at Marion, in the county of Grant and State of Indiana, have invented a certain new and useful Improvement in Folding Stands, of which the following is a specification.

My invention relates to folding stands, and has for its object to provide a new and improved stand of this description.

My invention is illustrated in the accompanying drawings, wherein—

Figure 1 is a view of a stand embodying my invention. Fig. 2 is a similar view showing the stand in its folded position. Fig. 3 is a view as seen from beneath, showing the construction at the point of attachment of the legs of the stand. Fig. 4 is a section on line 4 4, Fig. 3, with parts omitted. Fig. 5 is an enlarged view of the attached end of the upper folding part of the stand. Fig. 6 is a plan view of the connection between the two branches of the upper folding part. Fig. 7 is a plan view of Fig. 5 with parts broken away.

Like letters refer to like parts throughout the several figures.

I have shown in the drawings a folding stand particularly adapted to be used for holding horns for phonographs and the like. It is of course evident that the stand may be used for other purposes.

In the construction shown the stand is provided with a central tube or support A, in which works the rod or part B, carrying the folding part C. The stand is adjusted in length by moving the part B up or down, said part being held in position by the thumb-screw A'. The folding part C consists, as shown in Fig. 1, of two pieces C' C². I have shown these pieces as consisting of straight pieces; but it is of course evident that they may be curved or given any other desired shape. The lower piece C' is pivotally connected to the part B in any desired manner. As herein shown, the part B is provided with an enlarged part or head B', the piece C' being pivotally connected to this head by means of a thumb-screw B². The head B' is provided with the shoulder B³, against which the piece C' rests when the folding part is in position. (See Fig. 5.) I prefer to provide the

with some suitable device or devices which lock them together when the thumb-screw B² is tightened. This may be done by making these opposed faces roughened or by providing one of the faces with the projection B⁴ and the other with an opening in which said projection fits. This projection is preferably short, so that when the thumb-screw is slightly loosened it can be disengaged from the opening, and will thus permit the piece C' to be folded. The pieces C' and C² are pivoted together at C³ and are provided with some holding device which permits them to be folded in one direction, but resists any tendency to fold in the other direction when the stand is in its operative position. As herein illustrated, this result is produced by providing the loop or piece C⁴, through which passes the pivot C³. This loop being closed at one end interposes a resisting body between the two pieces C' and C² when they are in the position shown in Fig. 1. The piece C² is provided with a suitable engaging device or chain C⁵, to which the phonograph-horn or the like is attached. It will be seen that the downward pull of this attached device is resisted by the loop C⁴ and that a rigid support is thus provided. The upper end is prevented from folding at the point of attachment C' by the shoulder B³. The engaging device or devices on the opposed faces of the piece C' and the head B' also insure against any tendency to fold. The tube or support A is provided with folding legs D. These legs are pivotally attached to the end piece D' of the support A. This end piece D' is provided with a series of lugs having slots in which the ends of the legs fit. These slots are beveled at their upper ends, forming the beveled faces D². (See Fig. 4.) The ends of the legs engage these beveled faces when said legs are brought to their normal position and prevent any further folding inwardly. When in this position, the legs are prevented from folding outwardly by the screw D³. This screw works in a hole in the end piece D' and is provided with the beveled part D⁴, against which the upper ends of the legs bear when in their normal position, as shown in Fig. 4. It will thus be seen that when the screw is in position the legs are held rigidly and cannot be moved in either direction.

I have shown in detail a particular device embodying my invention, but it is of course evident that the form, construction, and arrangement of the parts may be varied without departing from the spirit of my invention, and I therefore do not limit myself in this particular. It is of course evident that some of the parts may be omitted and others used with parts not herein shown, if desired, and that the stand may be used for various purposes, all of which will readily occur to those versed in the art.

The use and operation of my invention are as follows: When the stand is used for supporting phonograph-horns, it of course must be carried around with the phonograph and should be adapted to be folded into a small space and is preferably constructed so that when folded all the parts are fastened together, thus preventing the loss or misplacement of any of them. When it is desired to use the device, it is set up as shown in Fig. 1. When in this position, the legs are firmly held from displacement and the upper folding part is made rigid by the loop C⁴ and the attachment to the head B'. The stand may be suitably adjusted, and thus presents a rigid, durable, and light construction. When it is desired to fold the stand, the piece C² is moved in the direction of the arrow and is folded up against the piece C'. The loop C⁴ being open at one end—namely, at the right end—it will not interpose a resisting device between the two pieces when folded in this direction. The thumb-screw B² may then be loosened and the entire part C folded over against the support A, as shown in Fig. 2. The screw D³ is then removed, thus freeing the legs, so that they may be folded outwardly and upwardly against the support A, as shown in Fig. 2. The screw may then be replaced, so that it will be ready for use when wanted. It will thus be seen that by this construction all of the parts are readily, quickly, and easily folded together, so as to occupy very little space, and that the several parts are all fastened together in this folded position.

When it is desired to use the stand, the parts are moved to the position shown in Fig. 1.

I claim—

1. A folding stand, comprising a central support provided at its upper end with a folding part, consisting of a piece pivoted at one end to such support, a second piece pivoted at one end to the outer end of the first-mentioned piece, a resisting part associated with the pieces of the folding part at the point where they are pivoted together and adapted to hold the said pieces of the folding part in a rigid position when they are inclined to each other in one direction and to free them when they are inclined in the opposite direction.

2. A folding stand, comprising a central support provided with a folding part, consisting of two pieces, one of which is pivoted to the upper end of the support and the other

pivoted to the outer end of the first-mentioned piece, and a resisting part interposed between and associated with the two pieces of the folding part at the point where they are pivoted together and adapted to hold the two pieces in a rigid position when the outer end of the outer part is substantially in line with the axis of the supporting part.

3. A folding stand, comprising a central support provided at one end with folding legs and at the other end with a folding part consisting of two pieces pivotally connected together, one of said pieces being pivotally connected with the central support, a loop connected with said pieces at the point where they are pivoted together and adapted to be interposed between them when they are in their operative position, so as to resist the folding of the pieces in one direction.

4. A folding stand for phonograph-horns and the like, comprising a central support provided at one end with folding legs and at the other end with a folding part consisting of two pieces pivoted together, one piece being pivotally connected with the support at one end, the other piece being provided with an engaging device for the horn, a loop connected with both pieces at the point where they are pivoted together, said loop closed at one end and open at the other.

5. A folding stand for phonograph-horns, comprising a central support, an adjusting-rod mounted therein and provided with a suitable head, a piece pivotally connected with said head, an inclined shoulder on said head, which supports said piece and prevents its movement in one direction, a second piece provided with an engaging device for the horn and pivotally connected with the first piece, a loop connected to said pieces at their pivotal point and passing around one side thereof, so as to be interposed between the two pieces when in their operative position and hold them in said position.

6. A folding stand for phonograph-horns, comprising a central support, an adjusting-rod mounted therein and provided with a suitable head, a piece pivotally connected with said head, an inclined shoulder on said head, which supports said piece and prevents its movement in one direction, a second piece provided with an engaging device for the horn and pivotally connected with the first piece, a loop connected to said pieces at their pivotal point and passing around one side thereof, so as to be interposed between the two pieces when in their operative position and hold them in said position, a series of folding legs pivotally connected with said support, a removable part attached to the support between said legs and adapted to engage the same so as to hold them in position.

7. A folding stand for phonograph-horns, consisting of a central support adapted to stand in substantially a vertical position when the device is in use, a suitable foot on which such support rests and a folding horn-hold-

ing attachment, comprising a piece pivoted
at one end to the upper end of the support,
so as to be folded into parallelism therewith,
a second piece pivotally attached at one end
5 to the outer end of the first-mentioned piece,
so as to be folded into parallelism therewith,
and a resisting device associated with the

two pieces so as to hold them in rigid relation
in one position and permit them to fold up
into parallelism with each other.

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Witnesses:

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D. M. SPRAGUE.