

(No Model.)

D. PARKHURST.

SAW GUIDE.

No. 321,134.

Patented June 30, 1885.

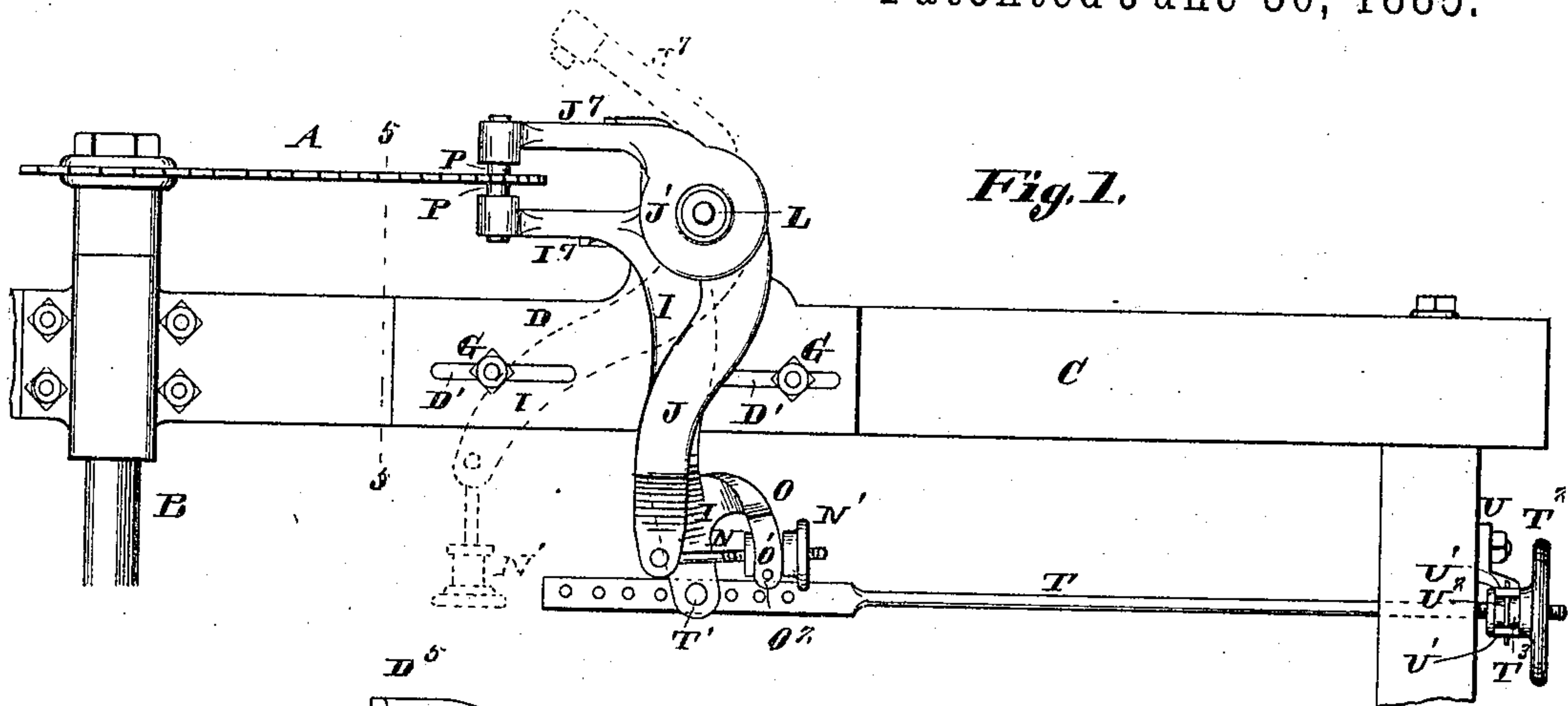


Fig. 2.

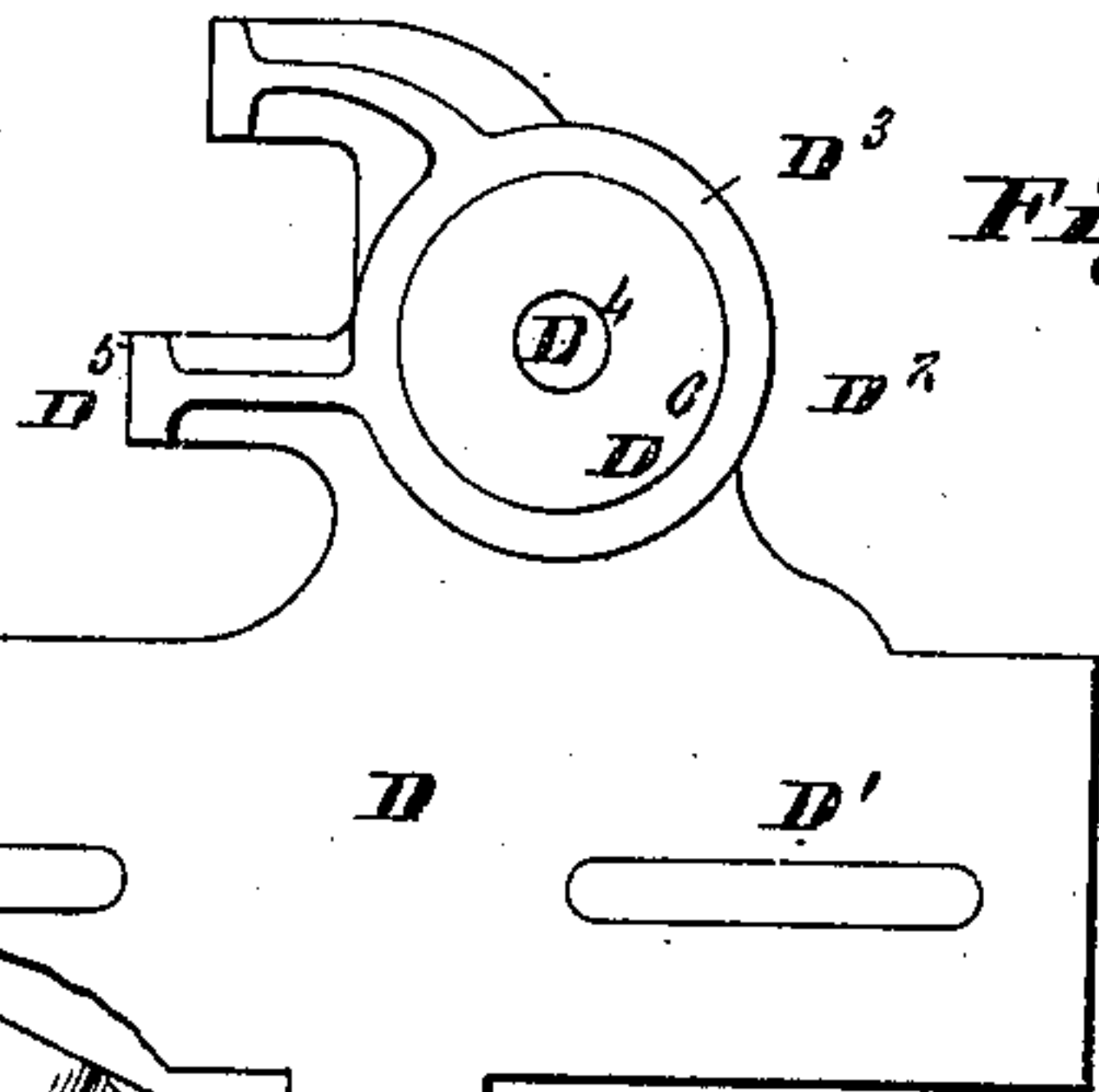


Fig. 3.

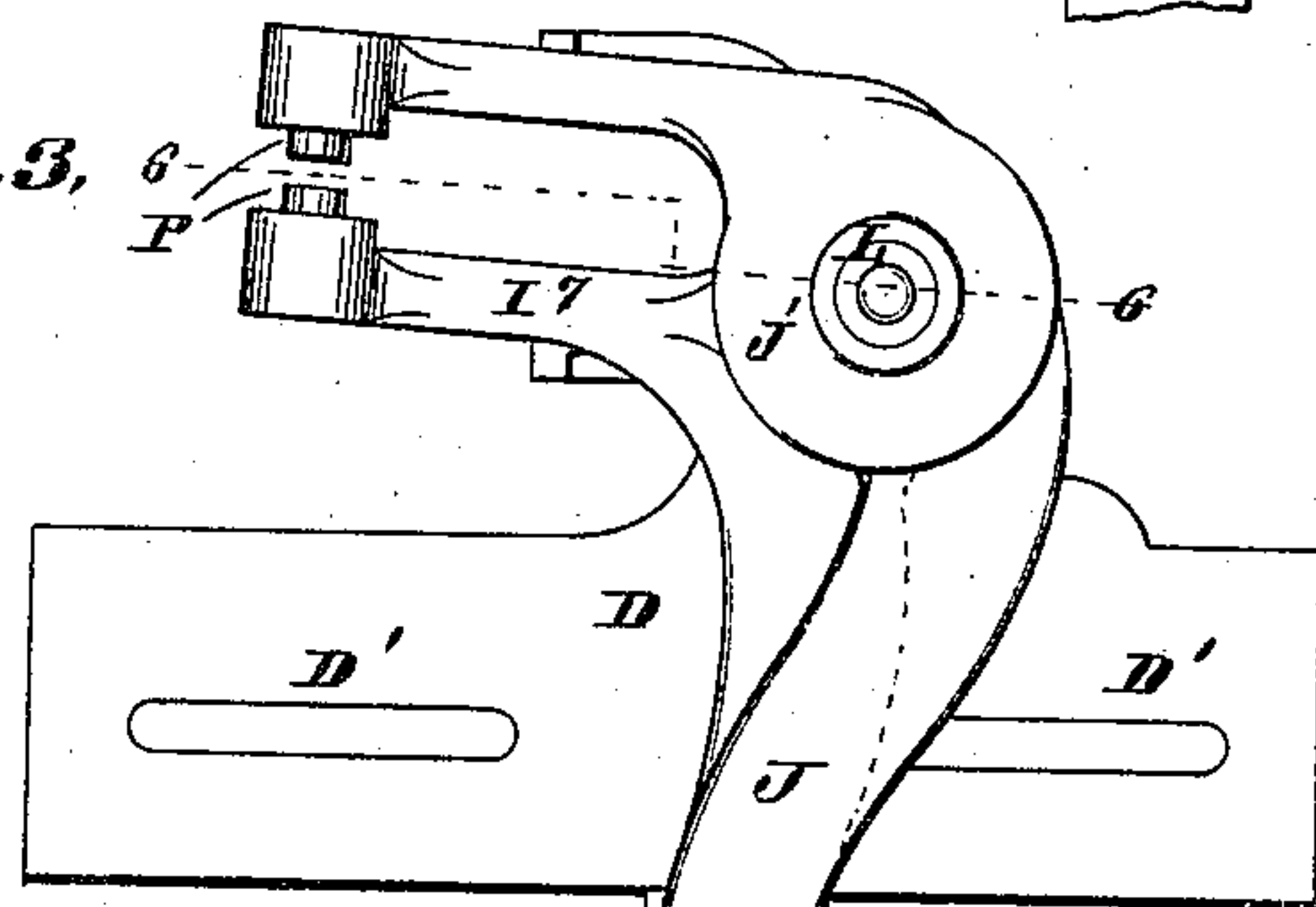


Fig. 4.

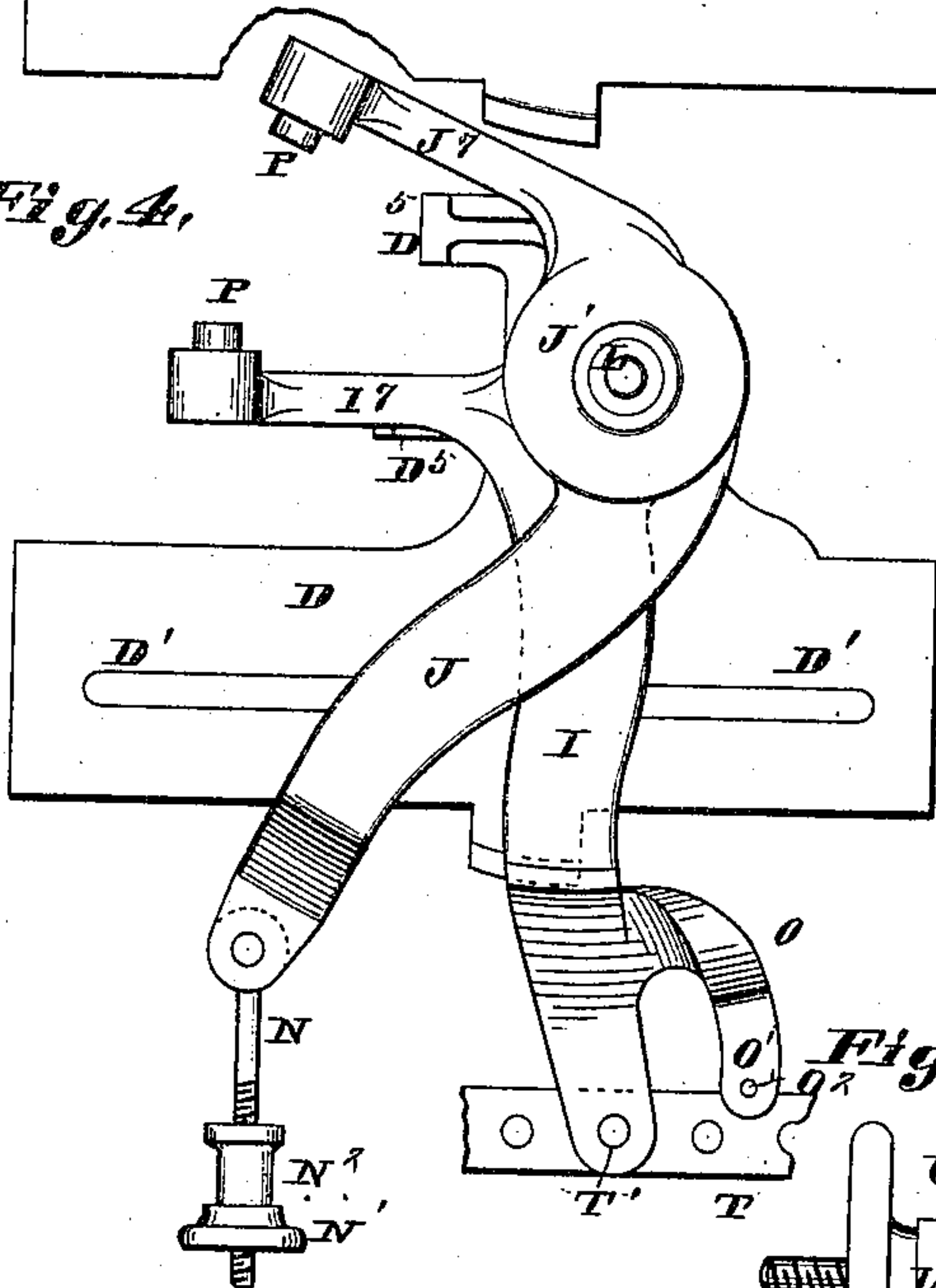


Fig. 5.

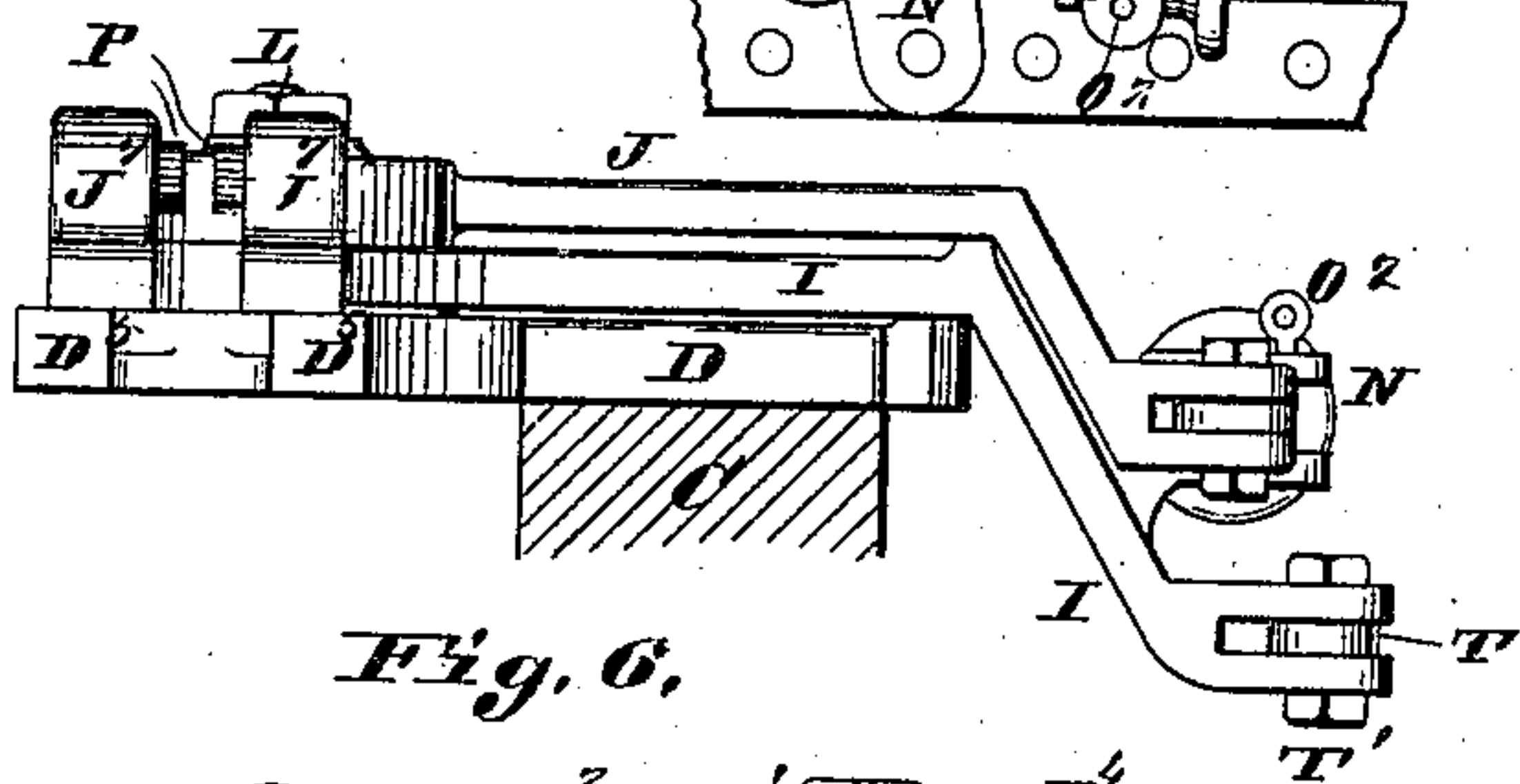


Fig. 6.

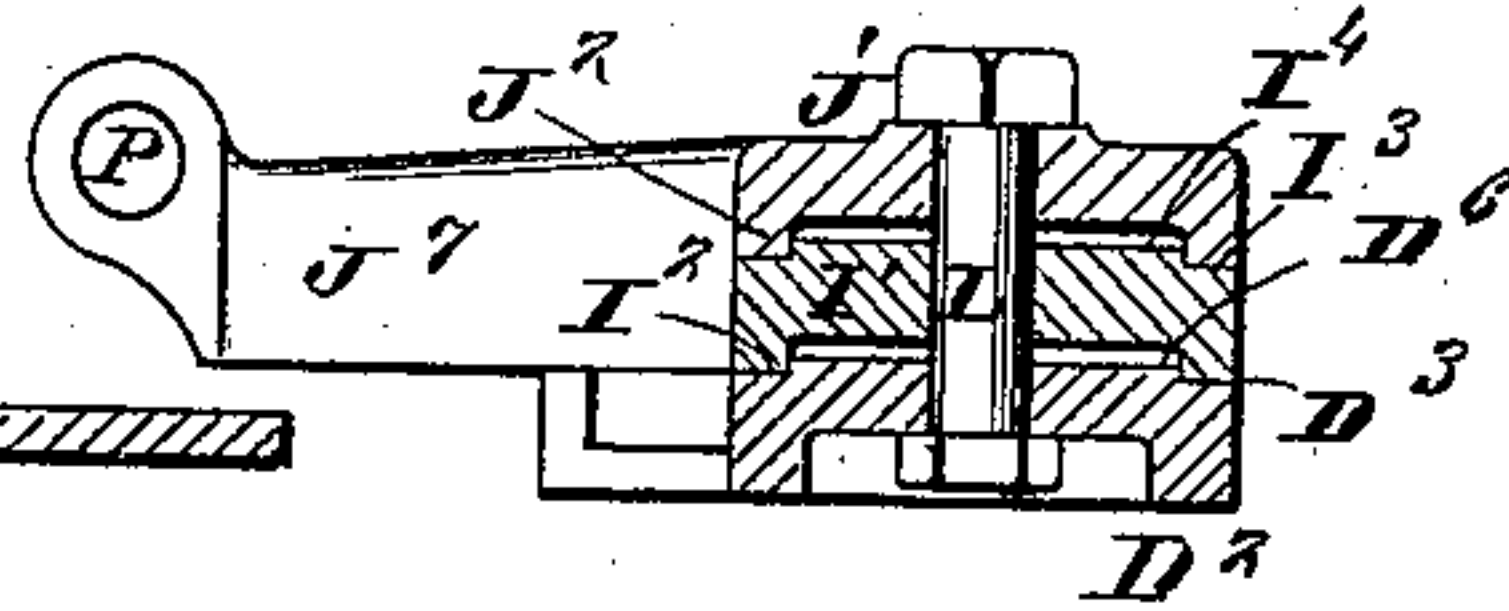
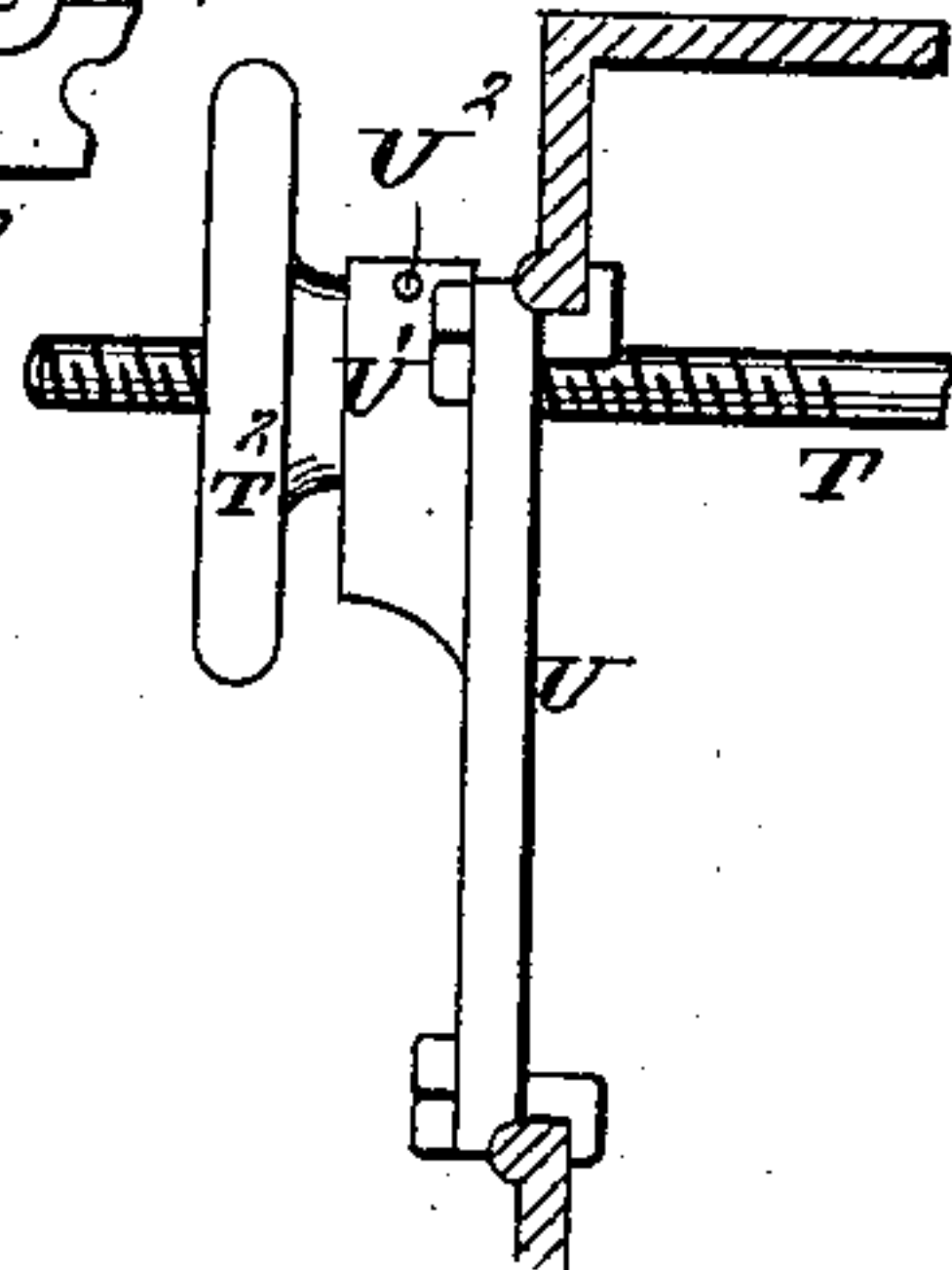


Fig. 7.



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UNITED STATES PATENT OFFICE.

DARIUS PARKHURST, OF ST. LOUIS, MISSOURI, ASSIGNOR TO THE KINGSLAND & FERGUSON MANUFACTURING COMPANY, OF SAME PLACE.

SAW-GUIDE.

SPECIFICATION forming part of Letters Patent No. 321,134, dated June 30, 1885.

Application filed March 14, 1885. (No model.)

To all whom it may concern:

Be it known that I, DARIUS PARKHURST, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Saw-Guides, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

10 Figure 1 is a top view of my improved guide, showing part of the saw and part of its frame, to which the guide is secured. Fig. 2 is a top view of the base or lower casting of the guide. Fig. 3 is an enlarged top view illustrating the 15 working of the guide. Fig. 4 is a similar view showing one of the arms or levers thrown around out of using position to permit the easy removal of the saw from its mandrel, which is also illustrated by dotted lines, Fig. 20 1. Fig. 5 is a section of the frame taken on line 5 5, Fig. 1, showing the guide in edge view. Fig. 6 is a section of the guide taken on line 6 6, Fig. 3, and Fig. 7 is a detail view.

My invention relates to an improved saw-guide; and my invention consists in features of novelty hereinafter fully described, and 25 pointed out in the claims.

Referring to the drawings, A represents part of a circular saw; B, part of its mandrel, 30 and C, part of the frame of the saw.

D represents a base or casting, which is secured to the frame by bolts G fitting in slots D', so that the base can be adjusted to and 35 from the saw when desired. It has an extension, D², formed with a circular bearing, D³, a central perforation, D⁴, and projections D⁵. Inside the bearing D³ the extension is slightly raised, forming a shoulder, D⁶, over which fits a flange, I², on the under side of an extension, I', formed upon a lever, I. (See Fig. 6.) 40 This flange forms a bearing resting and turning on the bearing D³.

The top or upper side of the extension I' has a bearing, I³, and shoulder I⁴, similar to 45 those D³ D⁶ of the base, and over this shoulder I⁴ fits a flange, J², of an extension, J', on a lever, J, and this flange forms a bearing resting and turning on the bearing I³. The extensions I' and J' are perforated over the perforation D⁴ 50 in the extension D², and through these perforations pass a connecting-bolt, L, upon which

the levers can turn together or separately. The levers cross each other, and are connected at their inner ends by a rod, N, hinged to the lever J, and having a thumb-screw or hand-wheel, N', on its free end, that is provided 55 with a neck having a circumferential groove, N², that fits between prongs O' of a horn, O, formed upon or secured to the lever I, and it may be held between the prongs by a pin, O², 60 passing therethrough. By turning the wheel or nut the inner ends of the levers can be moved toward or away from each other.

Formed upon the said extensions of the levers are arms I' and J', respectively, provided 65 with pins P, that bear against the saw, and these pins are moved to and from each other by turning the wheel N' to the right and left. These arms bear upon and are supported by the projections D⁵ of the base-piece. 70

The levers are moved together to guide the saw by a rod, T, connected to the outer end of lever I by a pin, T', and screw-threaded at its other end to receive a hand-wheel, T², with 75 a neck having a circumferential groove, T³, fitting between prongs V' of a bracket, V, secured to the frame C and held between the prongs by a pin, V². (See Figs. 1 and 7.) By turning this hand-wheel the arms, through 80 means of the levers, can be moved together out of a straight line in either direction, (see Fig. 3,) to cause the saw to run straight, as will be plainly understood.

By taking out the pin O² and moving the wheel out from between the prongs the inner 85 end of the lever J can be moved to the position shown in Fig. 4 and by dotted lines in Fig. 1, to throw the outer arm away from the saw to permit its removal from the mandrel and its replacement. 90

I claim as my invention—

1. In a saw-guide, the combination of the levers supported on a suitable base, arms formed upon the levers between which the saw works, and an adjustable connection 95 hinged to one of said levers and adapted to be readily disengaged from the other, whereby one arm of the guide is adapted to be swung around to permit the removal of the saw from the mandrel, substantially as set forth. 100

2. In a saw-guide, the combination of the base, levers pivoted to the base, arms on the

levers between which the saw works, horn on one of the levers provided with prongs, threaded rod hinged to the other lever, and hand-wheel on the rod having a groove fitting between the prongs of the horn, arranged and operating substantially as shown and described, and for the purpose set forth.

3. In a saw-guide, the combination of the base, levers pivoted to the base, arms on the levers between which the saw works, horn on one of the levers provided with prongs, threaded rod provided with a hand-wheel connecting the levers, rod connected to one of the levers and screw-threaded on its outer end, hand-wheel fitting over the screw-threaded end of the rod and having a circumferential groove, and a bracket supported independently of the saw-guide provided with prongs fitting in the groove of the wheel, substantially as shown and described, and for the purpose set forth.

4. In a saw-guide, the combination of the base, projections D^5 on the base, levers con-

nected to the base by a pivot-bolt, arms on the levers, an adjustable connection hinged to one of said levers and adapted to be readily engaged with and disengaged from the other, and a rod provided with an adjusting-wheel connecting one of the levers to the frame of the saw, substantially as and for the purpose set forth.

5. In a saw-guide, the combination of the base D , having bearing D^3 , shoulder D^6 , and projections D^5 , lever I , having bearing I' resting upon the bearing D^3 , bearing I^3 , and arm I' , lever J , having bearing J^2 resting upon the bearing I^3 , and arm J' , connecting pivot-bolt L , adjustable connection securing the inner ends of the levers together, and adjusting-rod connecting the levers to the frame of the saw, all arranged and operating substantially as shown and described, for the purpose set forth.

DARIUS PARKHURST.

In presence of—

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SAML. KNIGHT.