

No. 791,327.

PATENTED MAY 30, 1905.

R. T. DALE.  
PLOW.

APPLICATION FILED JULY 19, 1904.

Fig. 1.

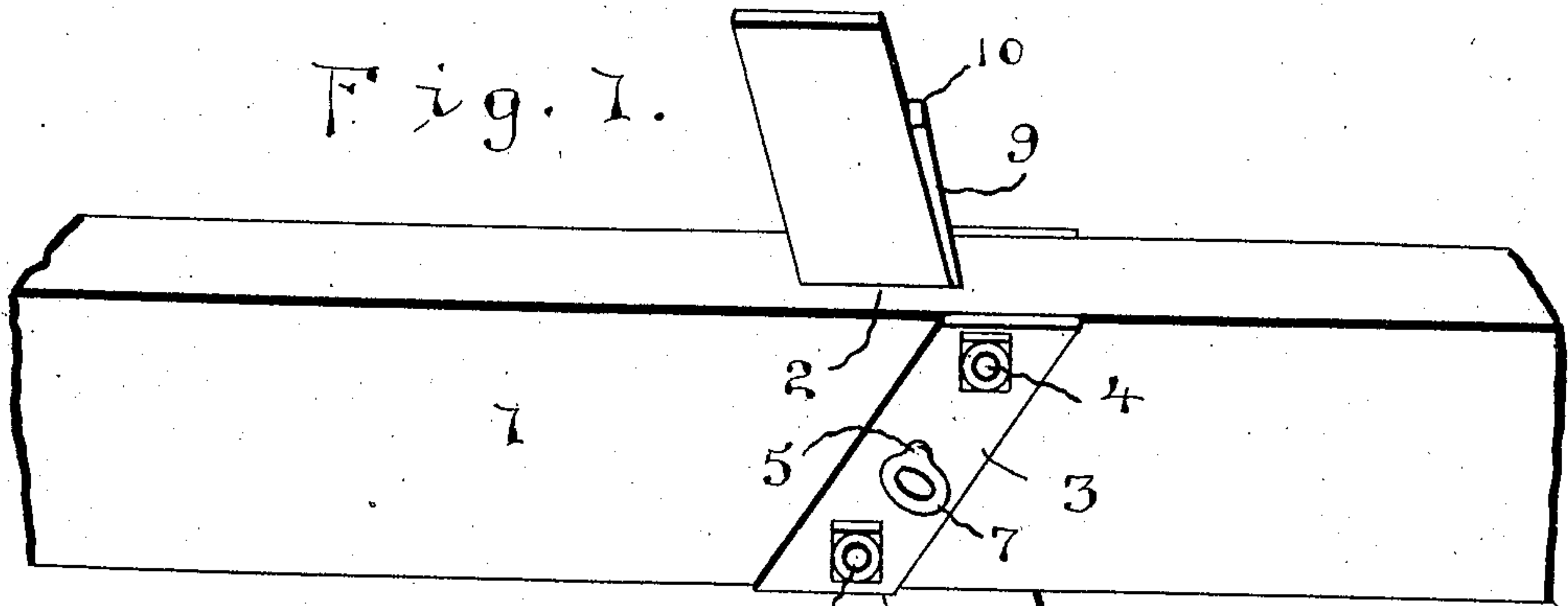


Fig. 2.

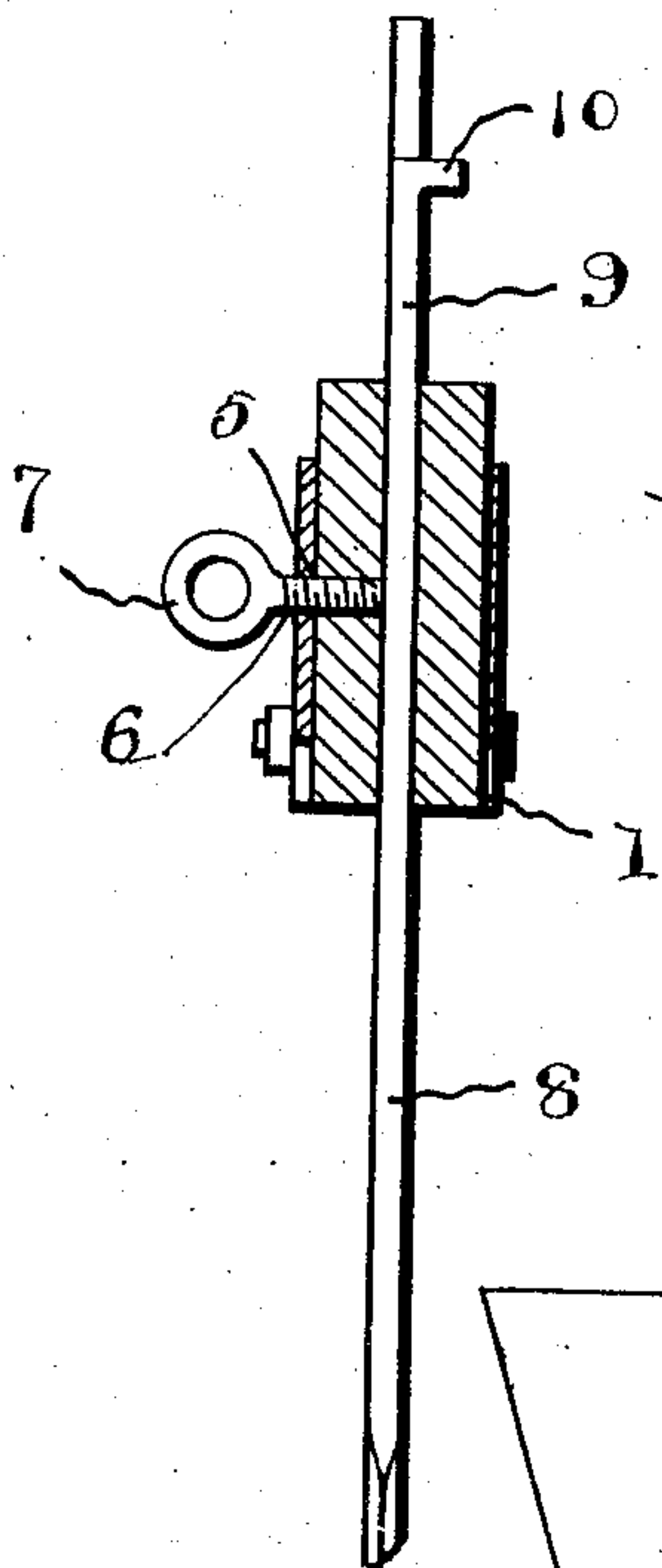
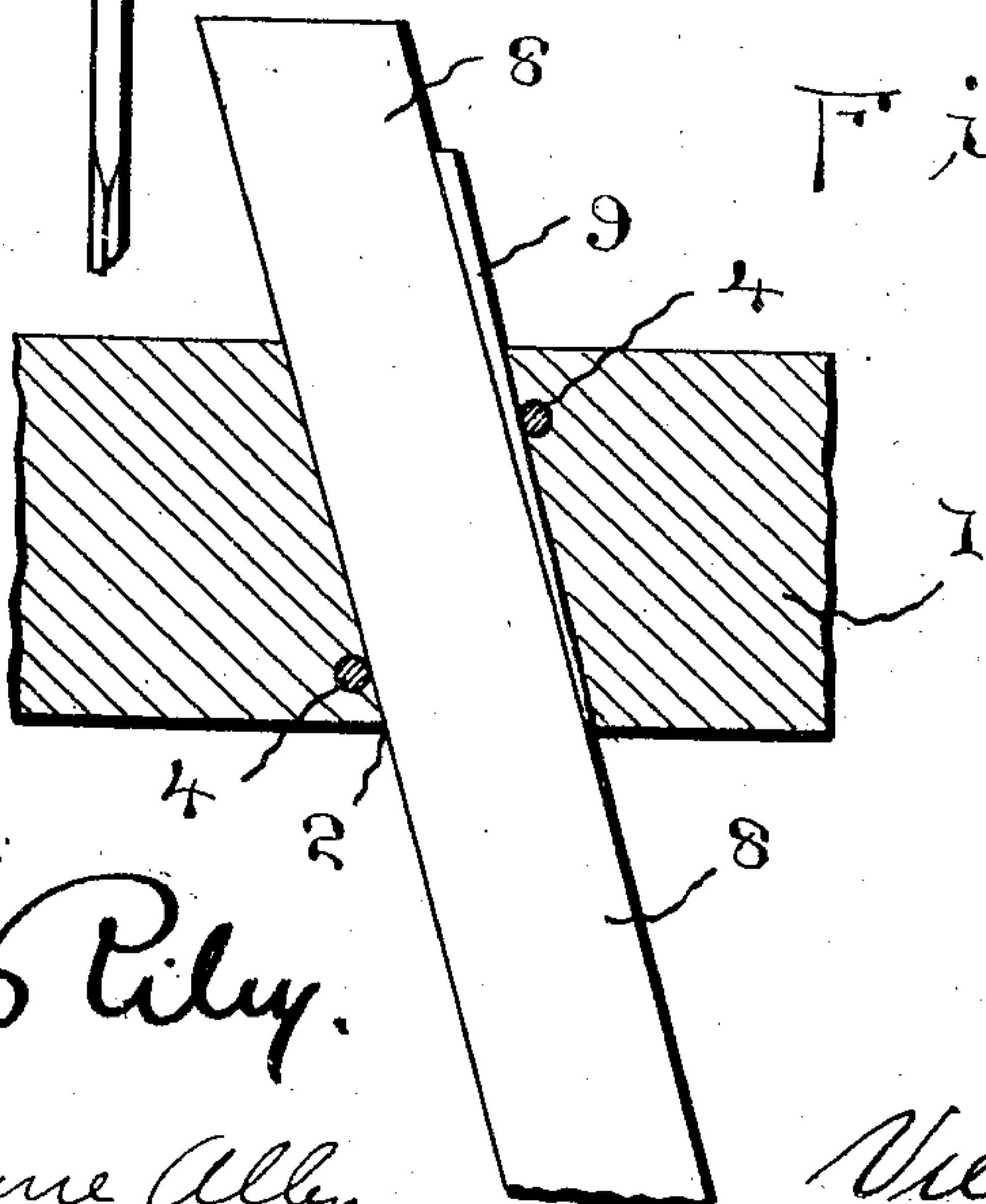


Fig. 3.



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# UNITED STATES PATENT OFFICE.

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## PLOW.

SPECIFICATION forming part of Letters Patent No. 791,327, dated May 30, 1905.

Application filed July 19, 1904. Serial No. 217,200.

*To all whom it may concern:*

Be it known that I, RICHARD T. DALE, a citizen of the United States, residing at Belen, in the county of Quitman and State of Mississippi, have invented new and useful Improvements in Plows, of which the following is a specification.

My invention relates to new and useful improvements in plows; and its object is to provide means whereby a colter may be securely fastened within a plow-beam.

A further object is to provide mechanism by means of which the colter can be adjusted to a desired angle and locked in adjusted position.

With the above and other objects in view the invention consists in providing a plow-beam with a passage into which the colter is adapted to be inserted. Bolts extend transversely through the beam at opposite sides and ends of the passage and form bearings for the colter and at the same time serve to prevent the beam from splitting as a result of lateral strain thereon.

The invention also consists in providing a wedge for securing the colter at a desired angle in relation to the beam, and means are also provided for locking the colter in the position to which it may be adjusted.

The invention also consists in the further novel construction and combination of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a perspective view of a portion of a plow-beam having a colter secured therein. Fig. 2 is a transverse section therethrough, and Fig. 3 is a longitudinal section.

Referring to the figures by numerals of reference, 1 is a plow-beam having a passage 2 extending therethrough from top to bottom, and secured to opposite sides of the beam and across the portion thereof in which the passage is arranged are plates 3. These plates are secured to the beam by means of bolts 4, which are in alinement with the edges of the passage 2, one of said bolts being located at the upper end of the front wall of the passage, while the other bolt is arranged at the rear

end of the wall thereof. One of the plates 3 has a screw-threaded aperture 5 therein, in which is arranged a set-screw 6, the head 7 of which is in the form of a ring, for the purpose hereinafter more fully described. This set-screw is adapted to bind upon the shank of a colter 8, which extends through the passage 2, and said colter is adapted to be tightly fitted therein by means of a wedge 9, having a laterally-extending head 10.

To secure a colter to the plow-beam, the shank thereof is inserted through the passage 2, and the desired angle of the colter to the beam is obtained by inserting the wedge 9 in the upper end of the passage 2 either in front or rear of the shank. This wedge can be tightly seated within the beam by driving downward upon the head 10 with a hammer or any other suitable device. The set-screw 6 being in position against one side of the colter serves to hold said colter in position during the driving of the wedge. When the beam 1 is drawn forward, backward pressure will be exerted upon the colter, as is obvious, and the bolts 4 will therefore receive all strain and prevent the front and rear walls of the passage 2 from wearing away or breaking. When it is desired to readjust or remove the colter, the set-screw 6 is unscrewed, and, if necessary, a stick or other device may be inserted through the ring 7, so as to facilitate the releasing of the colter. It will be seen that this securing means is very simple and inexpensive in construction and firmly locks the colter in desired position within the plow-beam.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing any of the advantages thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of my invention.

Having thus described the invention, what is claimed as new is—

A plow comprising a beam having a central inclined opening extending downwardly therethrough, and plates arranged upon the side faces of the beam and arranged in a reversely-inclined position and intersecting the plane of



the inclined opening, bolts for securing the plates to the beam, said bolts being arranged diagonally on the opposite edges of the inclined opening, a colter mounted in the inclined opening having its rear edge bearing  
5 against the rear or lower bolt, a wedge interposed between the front edge of the colter and against the front or upper bolt, said wedge being provided with releasing means,  
10 a set-screw passing through an opening in one of the plates and through an opening in

one side of the beam to bind against one side of the colter and said set-screw serving to hold the colter in position during the entering of the said wedge, substantially as specified.  
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In testimony whereof I affix my signature in presence of two witnesses.

RICHARD T. DALE.

Witnesses:

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