

(No Model.)

J. G. WELLS.  
PLOW HANDLE CLAMP.

No. 601,765.

Patented Apr. 5, 1898.

Fig. 1.

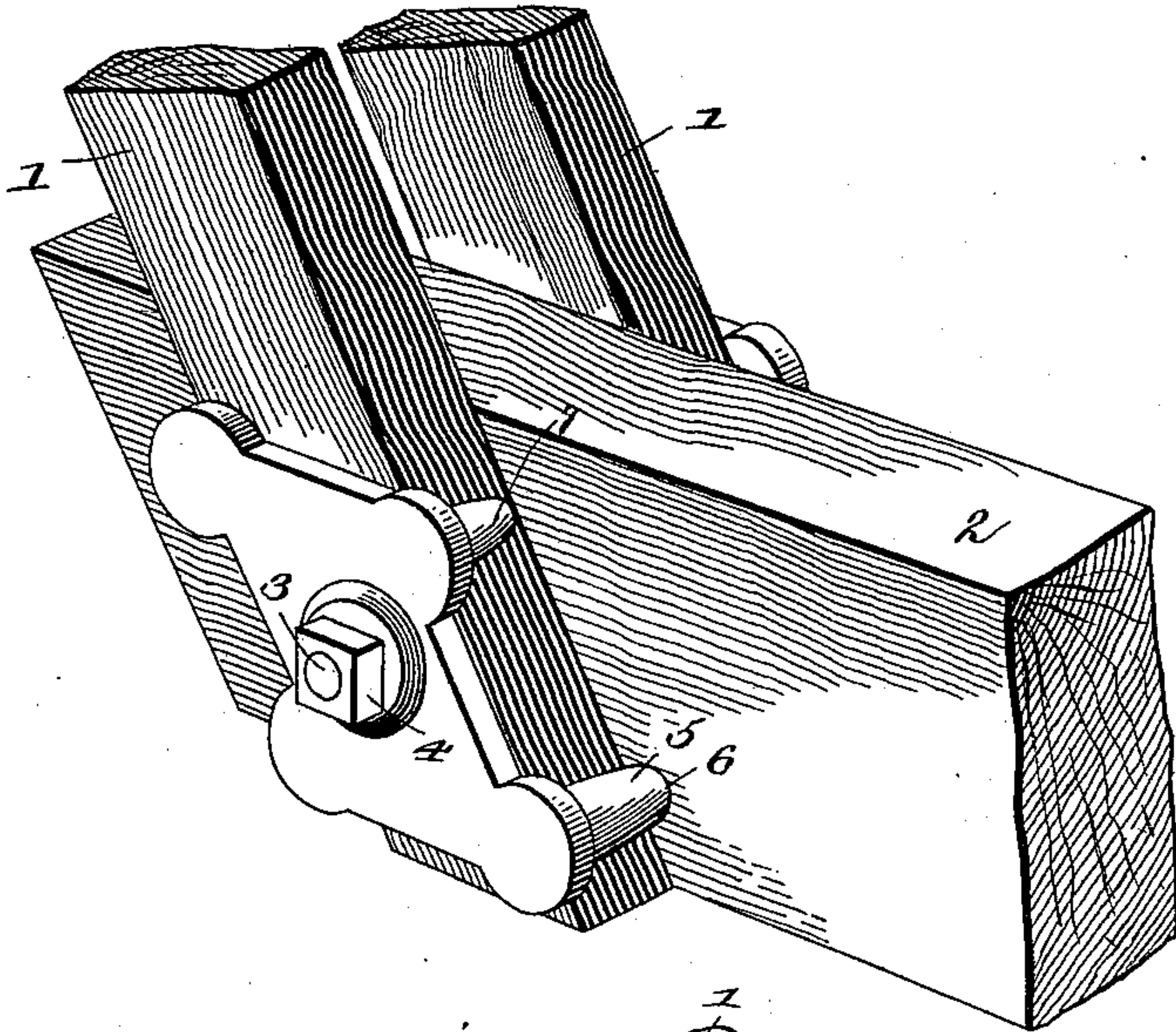


Fig. 2.

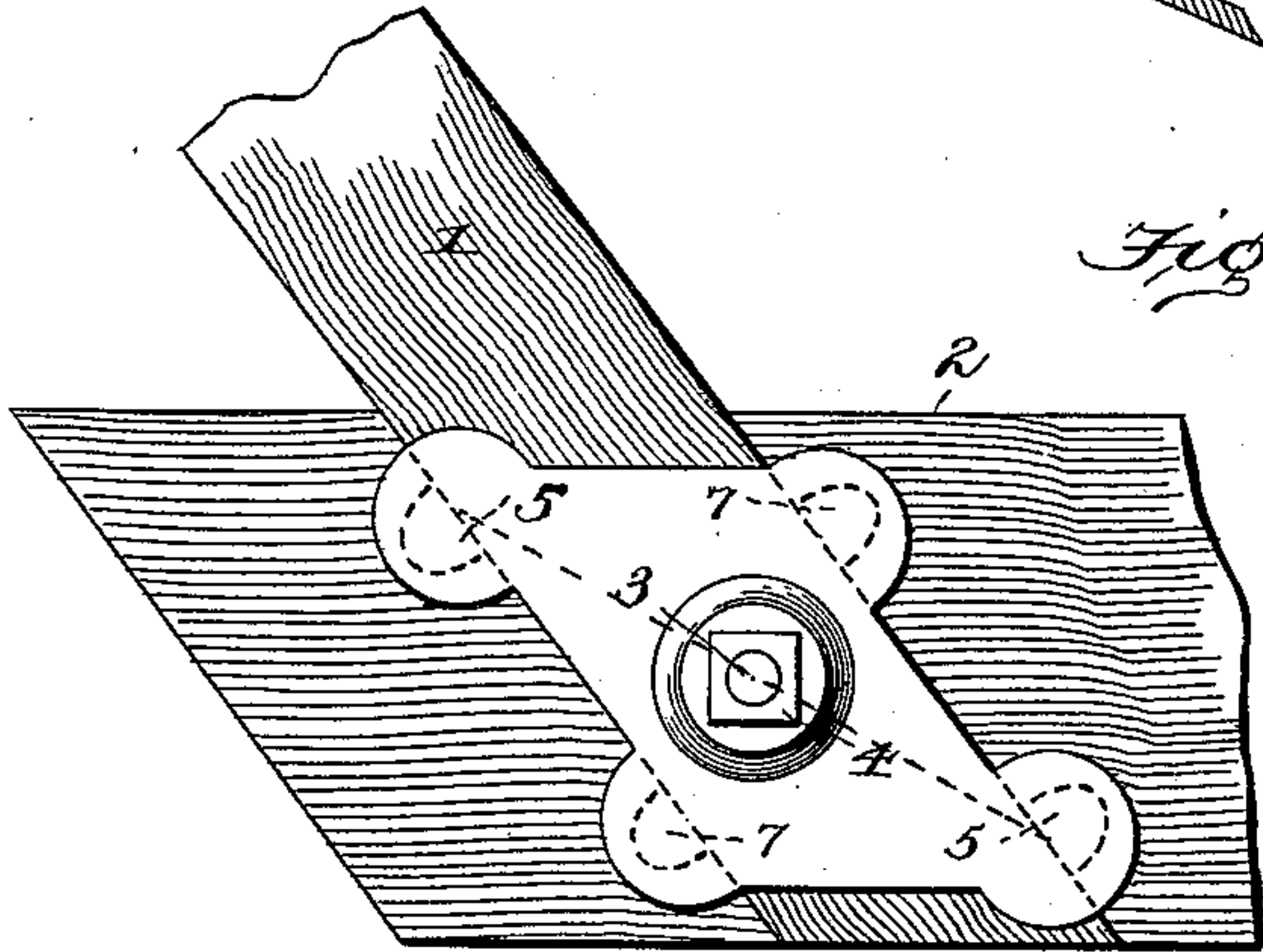


Fig. 3.

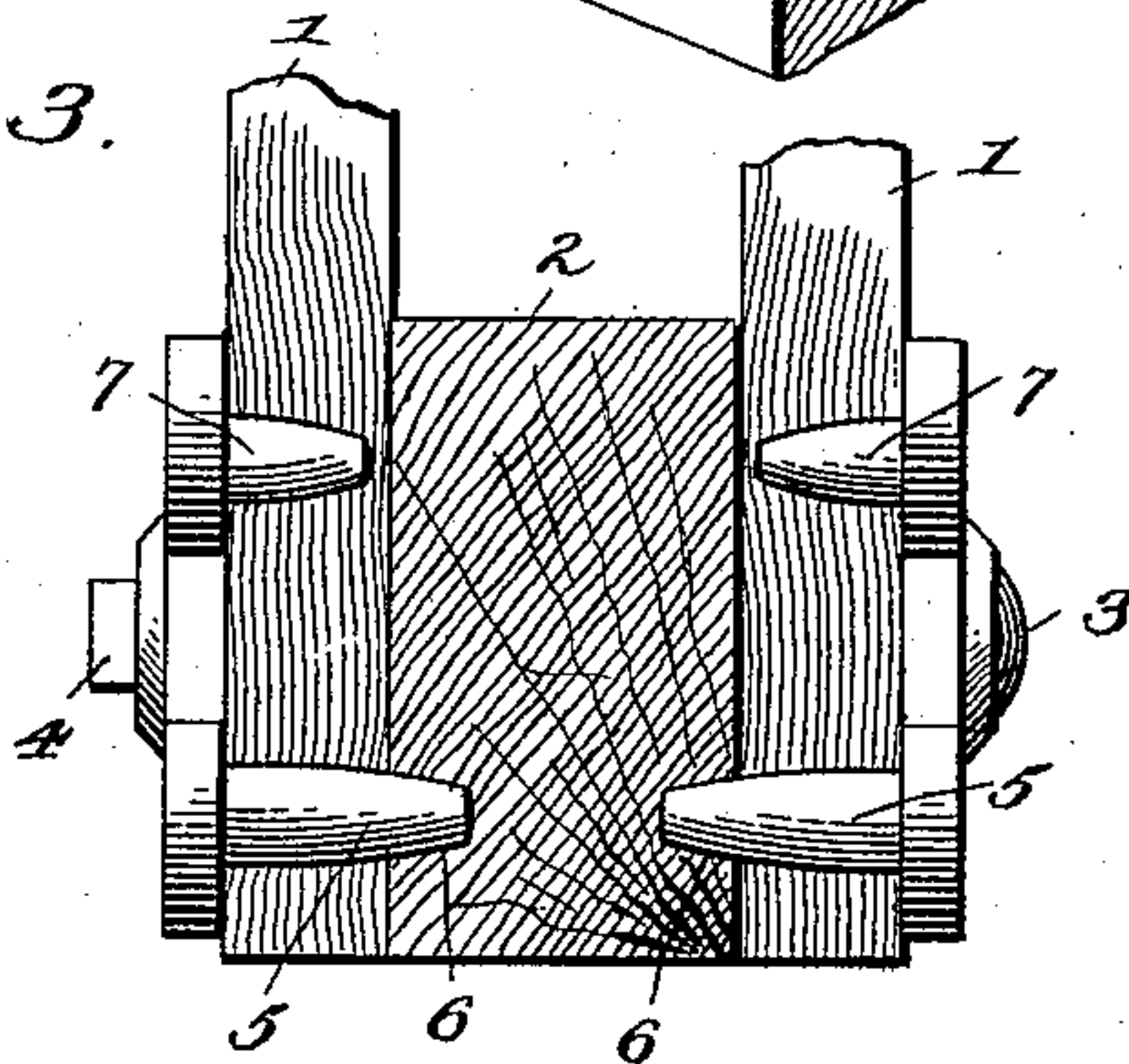


Fig. 4.

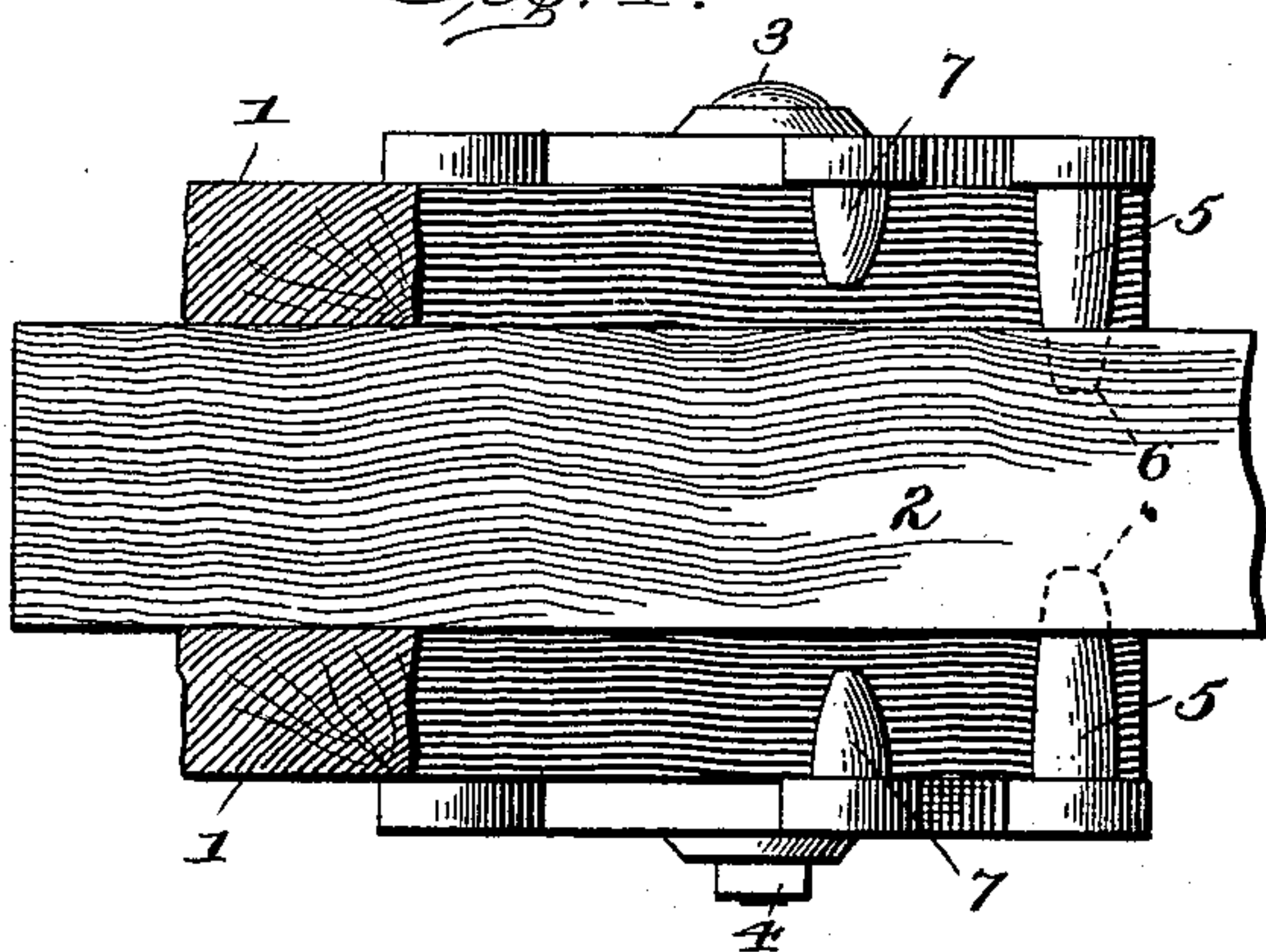
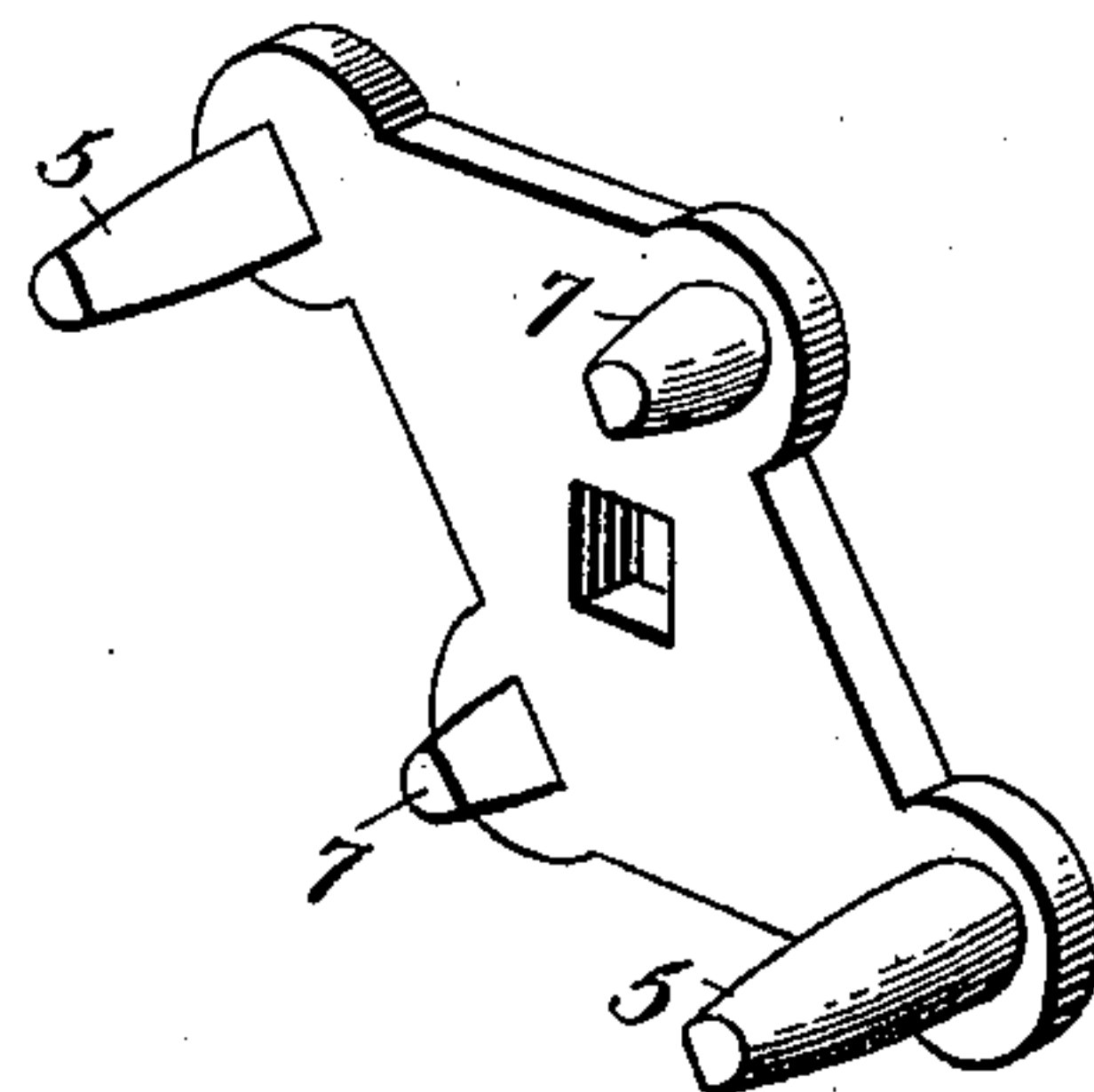


Fig. 5.



WITNESSES:

Geo. M. Copenhagen  
Thos. D. Morris.

INVENTOR

James Grayson Wells  
BY  
Johnson & Johnson  
ATTORNEYS.



# UNITED STATES PATENT OFFICE.

JAMES GRAYAR WELLS, OF JACKSON, TENNESSEE.

## PLOW-HANDLE CLAMP.

SPECIFICATION forming part of Letters Patent No. 601,765, dated April 5, 1898.

Application filed November 8, 1897. Serial No. 657,738. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES GRAYAR WELLS, a citizen of the United States, residing at Jackson, in the county of Madison and State of Tennessee, have invented a new and useful Improvement in Plow-Handle Clamps, of which the following is a specification.

For plows in which the handles are secured directly to the opposite sides of the beam I have designed a clamp formed of a pair of clip-plates, one for each handle-bar and each having studs at its four corners, which embrace the bar, the stud at the lower edge on one side of each plate and the stud at the upper edge on the other side of each plate entering a bore in the opposite sides of the beam, thereby having the function of a bolt firmly locking the clip-plates to the beam for resisting the lifting and pressing strain upon the handles, so that it is impossible for the handles to become loose from the wrenching of the plow. These studs stand in diagonal relation to each other and in a line crossing the nutted bolt which binds the clip-plates to the handles and to the beam.

In the accompanying drawings, Figure 1 shows so much of the beam and the handles as illustrates the way in which the studded clip-plates secure the handles. Fig. 2 is a side view of the same. Fig. 3 is a top view. Fig. 4 is a cross-section, and Fig. 5 is one of the studded clip-plates.

The handles 1 1 are secured to the opposite sides of the beam 2 at the proper angle. The clip-plates are each formed with a stud at the four corners, between which the handles are bound to the beam by a bolt 3, passing through the clip-plates, the handles, and the beam and secured by a nut 4. Two of these studs 5 5, one at the lower edge at the front side of the handle and one at the upper edge at the rear side of the handle, are of a length to enter bores 6 6 in the beam and thereby lock the clip-plates firmly to the beam. These bolting-studs are diagonal to each other and in a line crossing the center bolt and serve, in connection with the short studs 7 7, to resist the strain of the handles in holding the plow and keep them from being wrenched loose. The short studs serve as binders, and they stand nearly crosswise of the handle-

bars, while the distance between the long studs is about twice that between the short studs, and by that means the bolting-studs are caused to form abutments which not only bind the handles, but resist the strain which tends to wrench them loose.

The bolting-studs of each clip-plate enter the bores coincidently on the opposite sides of the beam, and the clip-plates, diagonally bolted to the beam and centrally bolted to the handles and the beam, form a firm and secure clamp for the handles.

An advantage of the bolting-studs is that they strengthen the plates and require only a shallow bore to receive the ends of the studs, so that the latter serve as bolts sustaining the clip against wrenching. The center hole for the clamping-bolt in one of the clip-plates is square to hold the bolt from turning in driving on the nut.

It will be seen that the angle of the handles is determined by the stud-holes, and for this purpose the holes can be easily bored, and that the clip-plates as handle-clamps form new articles of manufacture readily applied for use.

I claim—

1. The combination with the beam and the handles of a plow, of a clamp consisting of a clip-plate for each handle, each plate having studs at its four corners, embracing the handles, one of the studs at the upper edge of the plate at the rear sides of the handles and one of the studs at the lower edge of the plate at the front sides of the handles entering and bolting with a bore in the opposite sides of the beam, and a nutted bolt binding the clip-plates, the handles and the beam.

2. As a new article of manufacture a plow-handle clip-plate formed with a central hole, a stud at its four corners, two of said studs at diagonal corners being longer than the other two and the said longest studs being a greater distance apart than the other two substantially as described.

In testimony whereof I have hereunto signed my name in the presence of witnesses.

JAMES GRAYAR WELLS.

Witnesses:

IRA C. JANES,

JOSEPH F. ALEXANDER.