(No Model.)

A. T. SCOTT.

ADJUSTABLE CONNECTION FOR PLOW BEAMS.

No. 452,321. Patented May 12, 1891.

Fig 1

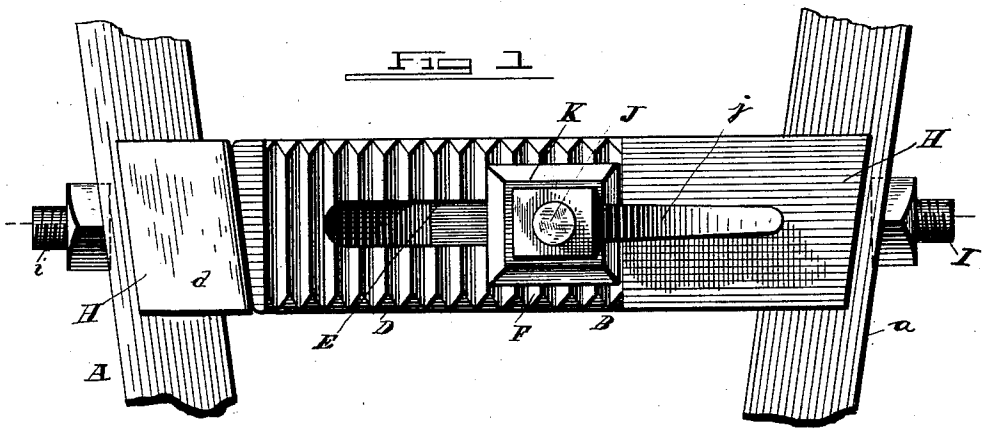


Fig 2

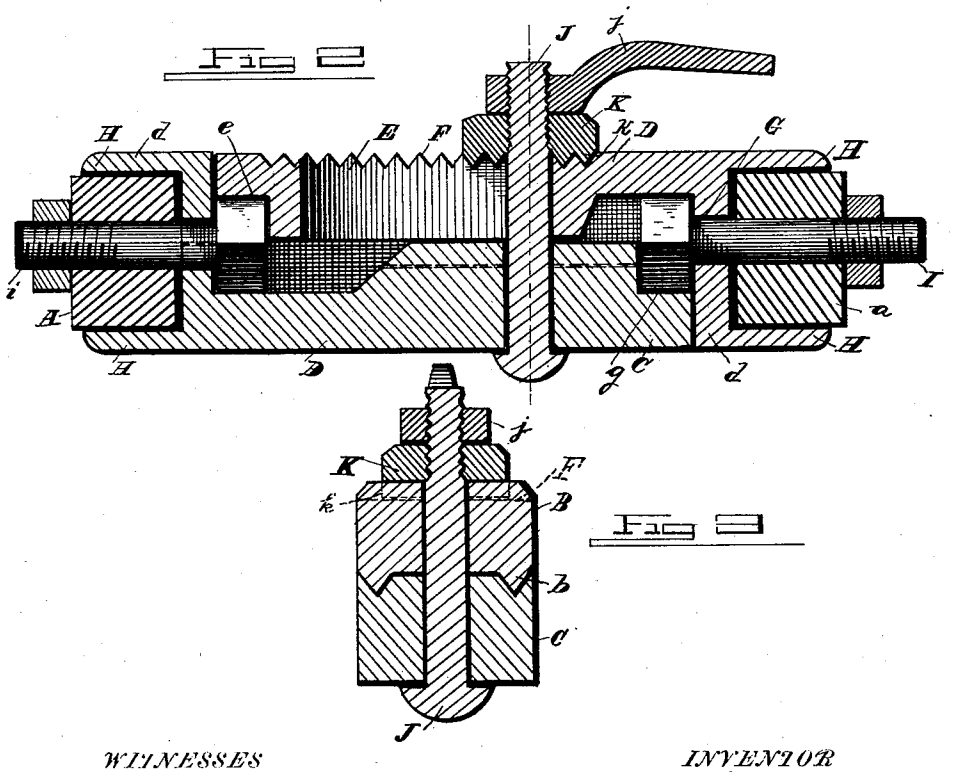


Fig 3

WITNESSES

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UNITED STATES PATENT OFFICE.

ABSALOM TAYLOR SCOTT, OF BURKESVILLE, KENTUCKY, ASSIGNOR OF ONE-HALF TO ISAAC S. BOW, OF SAME PLACE.

ADJUSTABLE CONNECTION FOR PLOW-BEAMS.

SPECIFICATION forming part of Letters Patent No. 452,321, dated May 12, 1891.

Application filed December 5, 1890. Serial No. 373,713. (No model.)

To all whom it may concern:

Be it known that I, ABSALOM TAYLOR SCOTT, of Burkesville, in the county of Cumberland and State of Kentucky, have invented certain new and useful Improvements in Adjustable Connections for Plow-Beams, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification, in which—

Figure 1 is a top view of my improved adjustable connection for double-shovel-plow beams, &c. Fig. 2 is a central vertical longitudinal sectional view of the same. Fig. 3 is a transverse sectional view in the plane of the bolt.

This invention is an improved device for connecting the beams of double-shovel plows, cultivators, &c., and its object is to enable the beams to be quickly adjusted toward or from each other and to be securely locked when so adjusted; and it consists in a pair of nearly similar but opposite castings fitted together and sliding one on the other and locked by a transverse bolt and devices, all constructed and arranged substantially as and in the manner hereinafter clearly described and claimed.

Referring to the drawings by letter, A *a* designate adjoining beams of a double-shovel plow, cultivator, &c.

B C designate castings nearly similar in construction and L-shaped in vertical longitudinal section, as shown, each having a main horizontal portion D and an end portion *d*, standing at right angles thereto.

On the inner face of portion D of casting B, along the edges thereof, are formed longitudinal beads *b*, and between these beads is a longitudinal slot E, and in the end opposite portion *d* is formed a recess *e*. The outer face of casting B adjoining slot E is transversely serrated, as shown at F. Through portion *d* of casting B is a central longitudinal opening G, and a recess *g* may be made in portion D adjoining this opening.

H H are horizontal flanges projecting from the top and bottom edges of portion *d* and adapted to embrace the adjoining beam A, and I is a bolt passed through opening G (its bead resting in recess *g*) and through the beam and secured by nuts, thereby fastening the casting B to the beam A.

The casting C has flanges H H, opening G, and recesses *e* and *g*, and is fastened to the opposite beam by a bolt *i* and nut, as shown, directly opposite casting B, so that its portion *d* overreaches portion D′ of casting B. On the side edges of portion D of casting C are formed longitudinal channels *c*, which receive the beads *b* of casting B.

J designates a bolt passing through portion D of casting C and through slot E of casting B, and *j* is a tail-nut screwed on the threaded end of said bolt.

K is a washer interposed between nut *j* and casting B and having its under face serrated, as at *k*, to engage the serrations F. By loosening nut *j* the castings B C can be adjusted so as to move beams A toward or from each other, and when the beams are properly adjusted nut *j* is tightened, binding the castings together, and washer K prevents the bolt playing in slot E.

The device may be used to connect the ends of two rods in place of a turn-buckle, the rods taking the place of bolts I *i*.

The device is designed to be located between the bars near the pivoted ends thereof. The flanges on the ends of castings prevent vertical movement of the device in relation to the bars. In adjusting the device the bolts connecting it to the bars should be first loosened, then the parts separated or adjusted as desired, and then the bolt J tightened so that the parts are rigidly locked together. Then the bolts fastening the castings to the bars may be tightened to bind all rigidly together, so that the device forms a rigid straight connection between the bars, whether it be shortened or elongated. As it is located, preferably, near the pivots of the bars, only a slight adjustment of the parts of the casting is required, and it is desirable to have it made strong and heavy. In extending the device the ends of the castings will not fit flush against the sides of the bars, and washers might be introduced in the spaces thus left, if desired; but yet at some point the end of the casting will bind against the side of handle or bars when the end bolts are tightened.

Having described my invention, what I claim as new, and desire to secure by Letters Patent thereon, is—

1. An adjustable connection of the character described, composed of two roughly L-shaped members having interlocking longitudinal beads and grooves on their inner or opposed faces, one of said members having a longitudinal slot and transverse serrations, a bolt attached to the other member and playing through said slot, a serrated washer on the bolt and a tightening-nut thereon, and bolts for securing said members to the beams or bars, substantially as specified.

2. The connection for the purpose described, composed of two castings formed substantially as described, having interlocking beads and grooves on their inner opposed faces, bolt-openings in their ends, and recesses for the accommodation of the bolt-heads, one member having a longitudinal slot and a series of transverse serrations, the other member having a bolt playing through said slot, a washer having a serrated face on said bolt, and a locking-nut thereon, all constructed and arranged as and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ABSALOM TAYLOR SCOTT.

Witnesses:
W. H. OWSLEY,
R. M. BLACK.