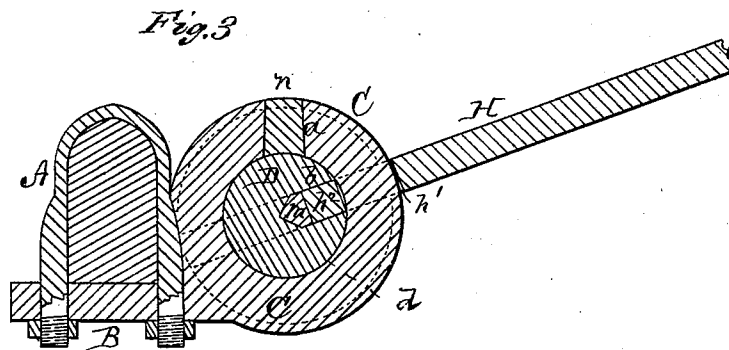
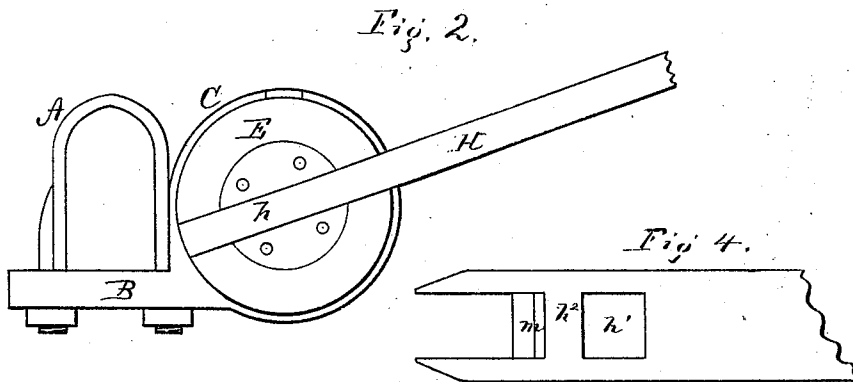
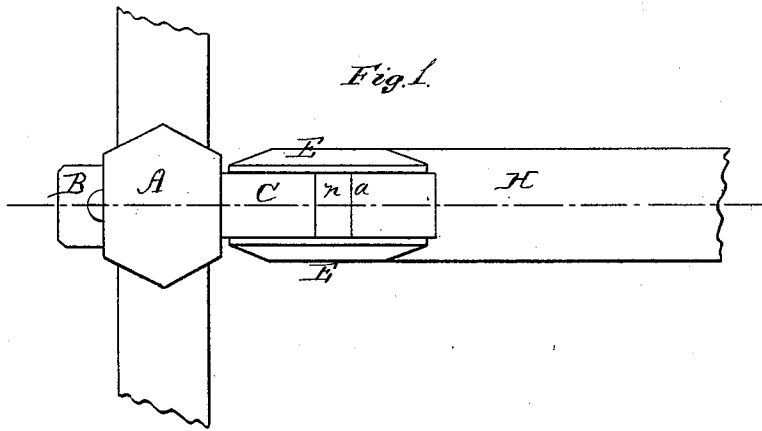


T. J. JONES.
THILL-COUPLING.

No. 175,466.

Patented March 28, 1876.



WITNESSES

Mary J. Utley.
Emory H. Bates

INVENTOR,

Theodore J. Jones.

Gilmore & Smith & Co.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

THEODORE J. JONES, OF EARLVILLE, ILLINOIS, ASSIGNOR OF ONE-HALF HIS RIGHT TO MARTIN C. SMITH, OF SAME PLACE.

IMPROVEMENT IN THILL-COUPINGS.

Specification forming part of Letters Patent No. **175,466**, dated March 28, 1876; application filed February 5, 1876.

To all whom it may concern:

Be it known that I, THEODORE J. JONES, of Earlville, in the county of La Salle and State of Illinois, have invented a new and valuable Improvement in Thill, Pole, and Cultivator Coupling; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a plan view of my thill-coupling, and Fig. 2 is a side view of the same. Fig. 3 is a longitudinal vertical sectional view thereof, and Fig. 4 is a detail view.

The nature of my invention consists in the construction and arrangement of a thill and pole coupling, which can also be used for a cultivator or other coupling, as will be hereinafter more fully set forth.

In the annexed drawing, A represents an ordinary clip, with bottom plate or bar B. C represents a flat ring of suitable dimensions in a vertical position, and formed or attached to the clip or to the bottom bar. In the top of the ring C is a slot, *a*, extending vertically from the outside to the inside of the ring, and within the ring is placed a tumbler, D, having a slot, *b*, extending from the outside to the center of the tumbler. On each side of the tumbler D are attached two segmental flanges, E E, arranged so as to form a groove, *d*, between them on a line with the slot *b* in the tumbler, which flanges prevent the tumbler from coming out of the ring or annular case C, inclosing the same. H represents the thill-iron, the inner end of which is slotted to form two parallel arms, *h h*, the space between said arms being equal to the thickness of the case and tumbler. The thill-iron has also a mortise, *h'*, of suitable size to fit around

the ring or shell, and leaving between said mortise and the slot forming the arms *h* a cross-bar, *h²*.

The tumbler being placed in the ring or case C, and held therein by the flanges E E, it is turned until the slots *a* and *b* coincide, when a rubber block, *m*, is placed in the bottom of the slot *b*. The thill-iron H is then inserted by passing the arms *h* down in the grooves *d*, formed by the flanges E, until the cross-bar *h²* rests on the rubber block *m*. By now turning the thill-iron forward and downward the tumbler turns in the ring, said ring passing through the mortise *h'* in the thill-iron, when said iron cannot be withdrawn, but is firmly coupled therein. The slot *a* is then closed by a rubber block, *n*.

The thill-iron is removed by simply raising it to a perpendicular position and then withdrawing it.

The rubber plug *n* keeps out all sand and dirt from the joint, and the rubber plug *m* keeps the joint continually tight, thereby avoiding any rattling or noise from the joint.

This coupling may be used not only for thill and pole couplings, but for cultivator and other couplings also, where the same may be applied.

What I claim as new, and desire to secure by Letters Patent, is—

The combination of the ring or case C, with slot *a*, the tumbler D, with slot *b*, and segmental flanges E, forming grooves *d*, and the thill-iron H, with arms *h* and mortise *h'*, substantially as and for the purposes herein set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

THEODORE J. JONES.

Witnesses:

MARTIN C. SMITH,
MARVIN M. MORSE.