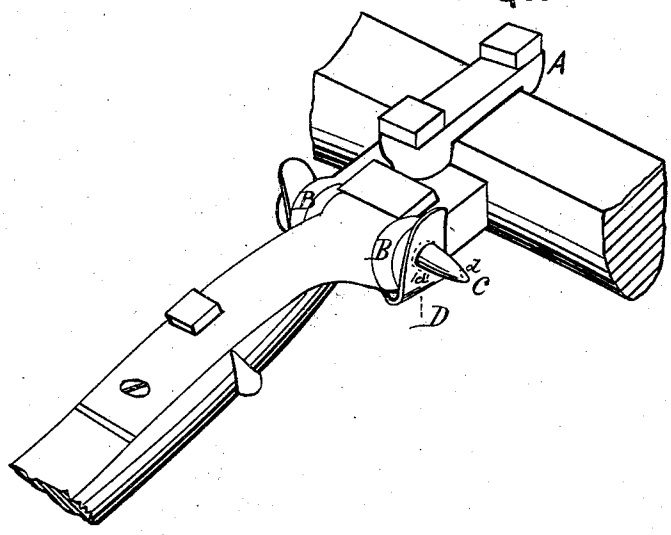
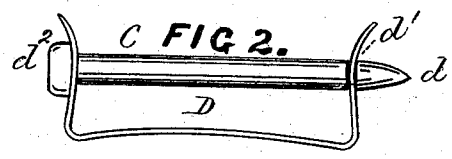
T. J. QUICK.

THILL-COUPLING

No. 169,582. Patented Nov. 2, 1875.

FIG 1.




WITNESSES.

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# UNITED STATES PATENT OFFICE.

THOMAS J. QUICK, OF WARSAW, INDIANA.

## IMPROVEMENT IN THILL-COUPLINGS.

Specification forming part of Letters Patent No. **169,582**, dated November 2, 1875; application filed April 23, 1875.

*To all whom it may concern:*

Be it known that I, THOMAS J. QUICK, of Warsaw, county of Kosciusko and State of Indiana, have invented an Improved Thill-Coupling.

The following description, taken in connection with the accompanying plate of drawings hereinafter referred to, forms a full and exact specification, wherein are set forth the nature and principles of the invention, by which the same may be distinguished from others of a similar class, together with such parts thereof as are claimed as new and are desired to be secured by Letters Patent of the United States.

My invention relates to thill-couplings; and the nature thereof consists in certain improvements in the construction of the same, and novel combination of the parts thereof, hereinafter shown and described.

In the accompanying plate of drawings, in which corresponding parts are designated by similar letters, Figure 1 represents a thill-coupling, with my improvement applied thereto. Fig. 2 designates the spring-strip of metal, rubber, or other suitable substance.

The shackle A is secured, in the ordinary manner, to the vehicle, and is provided with projections B, between which the shank of the thill is secured. A bolt, C, passes through apertures cut in the said projections and shank, and is secured in position by means of a spring, D, in the manner following: The said bolt has a pointed end, *d*, and annular flange $d^2$. The spring is of the form shown in Fig. 2, and is provided with two circular apertures. When it is desired to couple the parts together the pointed end of the bolt is passed through the aperture in one end of said spring. The other end of the spring is then secured in such a manner as to rest against the said annular projection and allow the blunt end $d^2$ of the bolt to pass through it.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

In a thill-coupling, the combination of the shackle A, the bolt C, having a pointed end, *d*, and annular flange $d^2$, and the curvilinear spring D, having two oval-shaped apertures for the reception of the bolt, all constructed as and for the purposes described.

In testimony that I claim the foregoing I have hereunto set my hand this 20th day of April, 1875.

T. J. QUICK.

Witnesses:
C. W. THOMAS,
GEO. PAYSON.