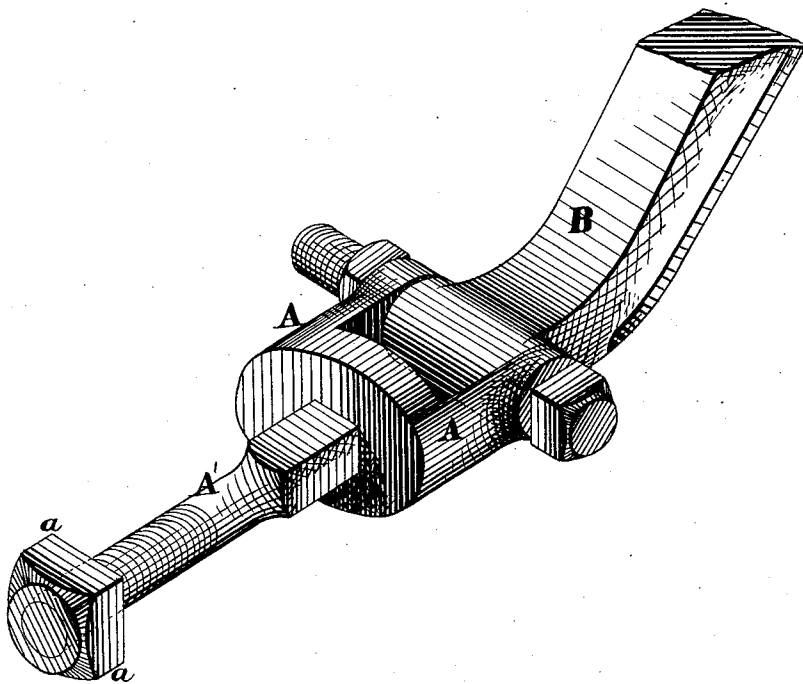


C. H. JOHNSON.

Thill-Coupling for Sleighs.

No. 163,781.

Patented May 25, 1875.



WITNESSES:

Jas. E. Hutchinson.
Harry. C. Hazard.

INVENTOR.

Chas. H. Johnson, by
Orindle and Co. his attys

UNITED STATES PATENT OFFICE.

CHARLES H. JOHNSON, OF SOUTHTON, CONNECTICUT.

IMPROVEMENT IN THILL-COUPPLINGS FOR SLEIGHS.

Specification forming part of Letters Patent No. **163,781**, dated May 25, 1875; application filed April 8, 1875.

To all whom it may concern:

Be it known that I, C. H. JOHNSON, of Southington, in the county of Hartford and in the State of Connecticut, have invented certain new and useful Improvements in Sleigh-Shackles; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making a part of this specification, in which my improved device is shown in perspective.

The design of my invention is to lessen the cost of shackle-irons used for connecting the shafts of a sleigh to or with the cross-bar; and it consists in the employment of a shank or bolt for connecting the shackle-eye to or with the cross-bar, substantially as and for the purpose hereinafter specified.

In the annexed drawing, A represents the eye of my improved shackle, which is constructed in the usual manner; and has pivoted thereto a shaft-iron, B, having any ordinary form. From the rear side or end of the shackle-eye A extends horizontally rearward a shank, A', that has, preferably, the form of an ordinary square-shank carriage-bolt, and is threaded at

its end, so as to enable it to receive a nut, *a*. To connect the shackle-eye to or with the cross-bar of a sleigh, an opening having a sufficient size to receive the bolt A' is formed in said bar, said bolt inserted within said opening, and the nut *a* placed upon its end and screwed home.

As constructed, the shackle costs materially less than those ordinarily used, while for the purpose intended it has all necessary strength, and is easily and quickly applied to or removed from a cross-bar.

Having thus fully set forth the nature and merits of my invention, what I claim is—

As a new article of manufacture, the sleigh-shackle having upon the rear end of its eye A a bolt, A', which extends horizontally rearward, substantially as and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand this 30th day of March, 1875.

CHARLES H. JOHNSON.

Witnesses:

OLIVER B. THOMPSON,
DEWITT C. ISBELL.