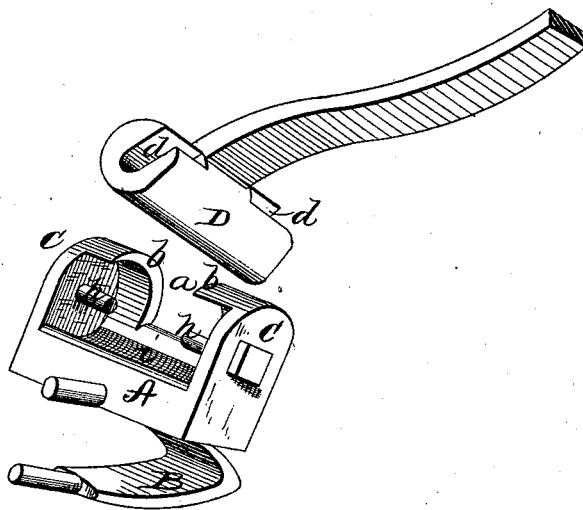


D. C. BACON.  
Thill-Coupling.

No. 212,422.

Patented Feb. 18, 1879.



WITNESSES

*Franck L. Ouraud,*  
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INVENTOR

*Dennis C. Bacon,*  
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# UNITED STATES PATENT OFFICE.

DENNIS C. BACON, OF LITCHFIELD, ILLINOIS.

## IMPROVEMENT IN THILL-COUPINGS.

Specification forming part of Letters Patent No. 212,422, dated February 18, 1879; application filed October 8, 1878.

*To all whom it may concern:*

Be it known that I, DENNIS C. BACON, of Litchfield, in the county of Montgomery, and in the State of Illinois, have invented certain new and useful Improvements in Thill-Couplings; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a thill-coupling, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which represents a perspective view from underneath my thill-coupling.

A represents the shackle of the thill-coupling, provided with a clip, B, to be fastened to the axle of the vehicle in the usual manner. The shackle A is open at the bottom, and the central portion cut out or slotted in front, as shown at *a*, the shackle forming, as it were, two jaws, C C, each having an inwardly-projecting flange, *b*, along the top and front.

In the center of each jaw C is an inwardly-projecting pin, *h*, which may be cast with the shackle, or inserted and fastened therein.

D is the thill-iron, made in T shape. In this T-iron is cut a slot or groove, *d*, extending inward from the end of each arm thereof,

to correspond with the length of the pins *h h*—say, about one-third of the way.

The coupling is made by raising the point of the shaft or tongue and placing the T-iron in the shackle A from the bottom, and when the shafts or pole is lowered it makes a perfect coupling.

The slot *a* in the front of the shackle allows the raising and insertion of the T-iron.

This self-coupling shackle has double strength, as it has full bearing on the pins *h h*, and also against the flanges *b b* on the front part of the shackle.

A rubber, *i*, is placed in the back part of the shackle A to prevent rattling or noise, which might otherwise be made.

Instead of the pins *h h*, a single pin or bolt may be used, extending entirely across the shackle, in which case a continuous groove or slot will be made in the T-iron.

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

The combination of the shackle A, open at the bottom, and with front slot, *a*, flanges *b b*, and pins *h h*, with the T-iron D, having slots or grooves *d d*, into which the pins *h h* take, all constructed substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 8th day of January, 1878.

DENNIS C. BACON.

Witnesses:

T. H. BILYEN,  
J. H. McMANUS.