

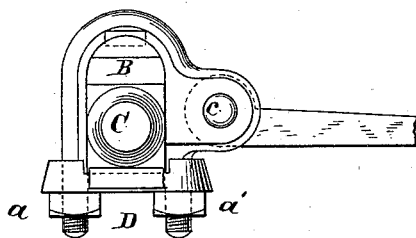
(No Model.)

C. T. STUART.  
THILL COUPLING.

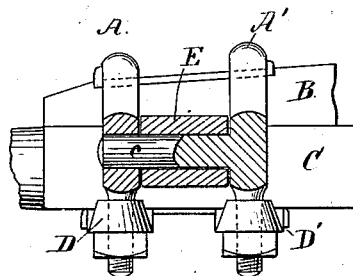
No. 307,350.

Patented Oct. 28, 1884.

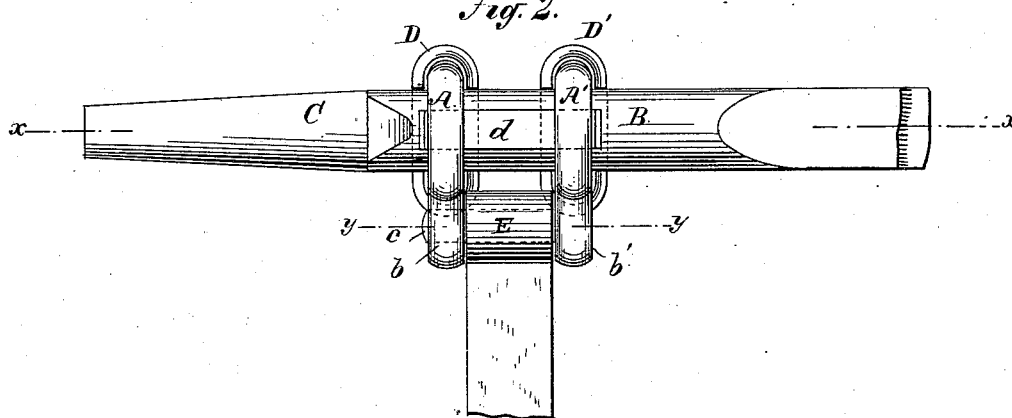
*Fig. 1.*



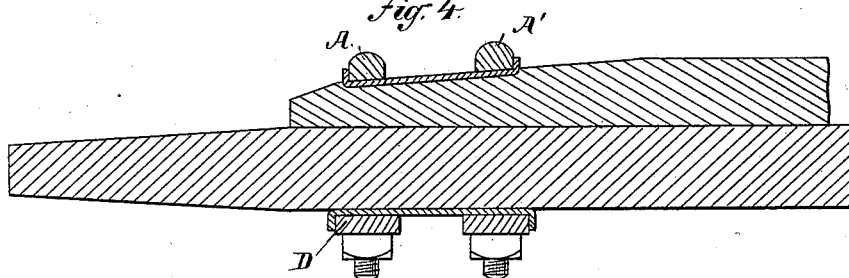
*Fig. 3.*



*Fig. 2.*



*Fig. 4.*



*Witnesses:*  
*Henry Eukling*  
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*by J. T. Fitch*  
*att'y.*

# UNITED STATES PATENT OFFICE.

CHARLES T. STUART, OF BROOKLYN, NEW YORK.

## THILL-COUPLING.

SPECIFICATION forming part of Letters Patent No. 307,350, dated October 28, 1884.

Application filed March 1, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES T. STUART, of Brooklyn, Kings county, State of New York, have invented a new and useful Improvement in Thill-Couplings, of which the following is a specification, reference being had to the accompanying drawings, forming part of the same, in which—

Figure 1 is a side elevation of a thill-coupling embodying my invention. Fig. 2 is a top view of the same and a portion of an axle on which the coupling is secured. Fig. 3 is a section on line *yy*, Fig. 2; and Fig. 4 is a central vertical section of a part of an axle and the said coupling.

My invention relates to a thill-coupling formed of two clips on the axle, between which the eye of the thill-iron is held by a pin passing through the eye; and it consists in the devices hereinafter described and claimed.

A and A' represent two clips secured upon the bolster B and axle C of a vehicle by straps D D' and nuts *a a'* in the usual way. On the front leg of each clip is formed a lug or jaw, *b b'*, between which jaws the loop or hook E of the thill-iron is held by a pin, *c*. The jaw *b'* is provided with the said pin *c*, which pro-

jects from its side toward the opposite jaw, the free end of the pin passing through a hole in the latter. The said pin is welded solid to the said jaw *b'* so that when it is passed through the eye of the thill-iron and the hole in the opposite jaw the thill-iron cannot be detached from the pin except by loosening the clip A and sliding it on the axle, thereby uncovering the free end of the pin *c*. The clips are prevented from displacement on the bolster and axle by a strap or plate, *d*, let into the bolster under the clips and having its ends turned up, as seen in Fig. 4.

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

The described thill-coupling consisting of the clip A', provided with a jaw, *b'*, and pin *c*, solidly connected thereto, the clip A, provided with a jaw, *b*, with a hole to receive the end of the pin *c*, and a thill-iron provided with an eye or hook, E, through which passes the said pin, all constructed and combined as and for the purpose described.

CHARLES T. STUART.

In presence of—

ROBERT JACKSON,

A. G. N. VERMILYA.