

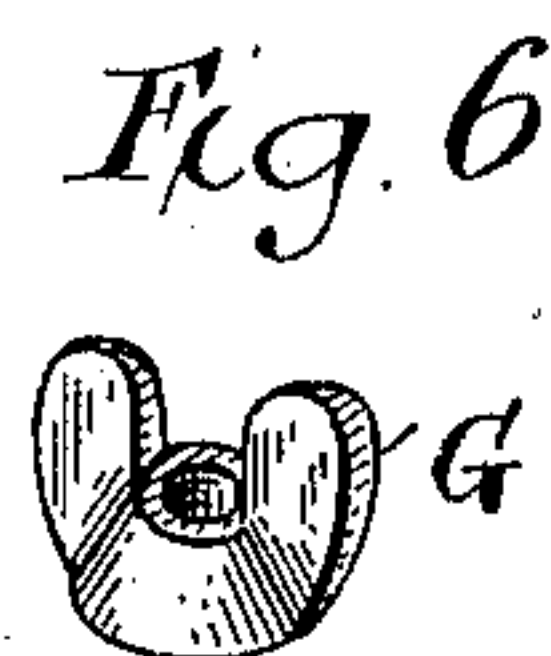
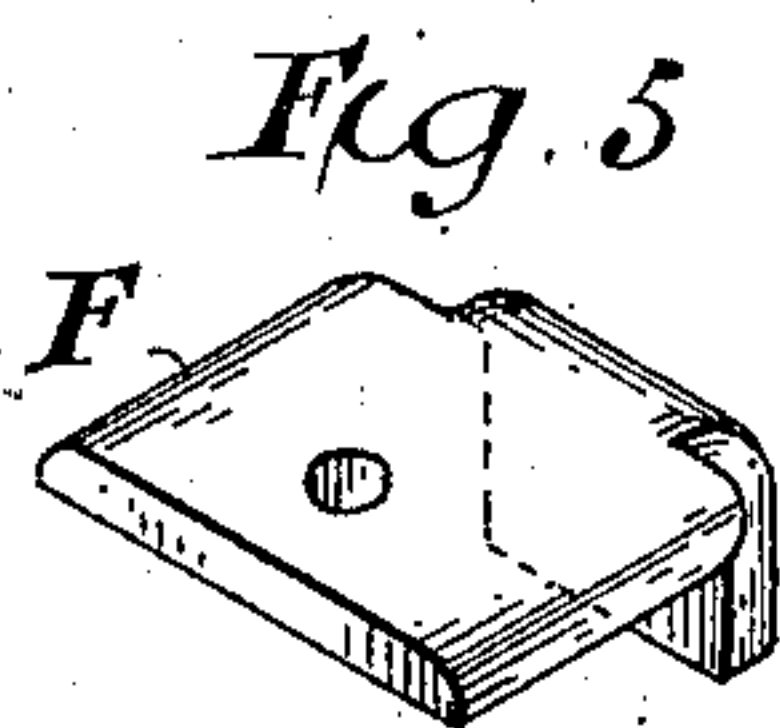
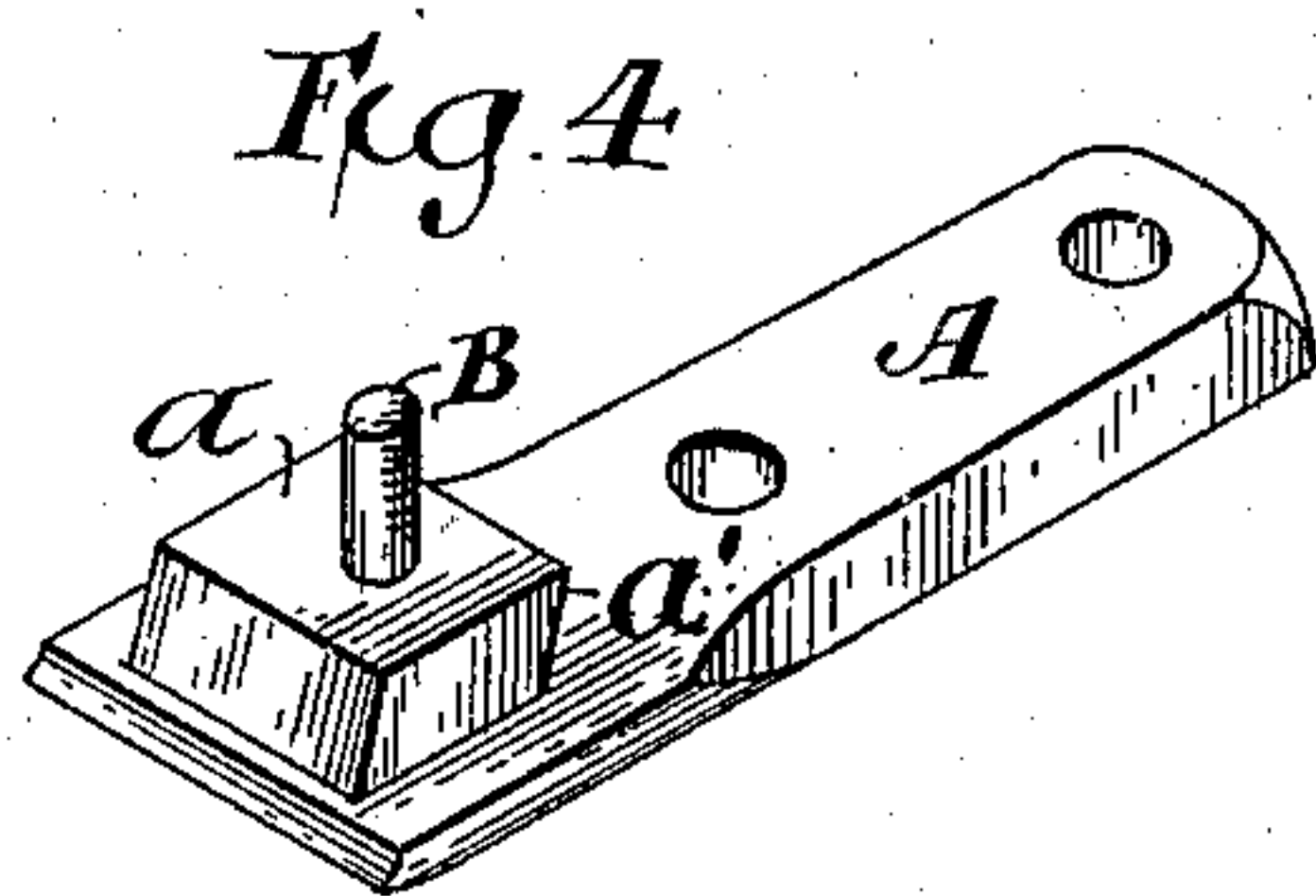
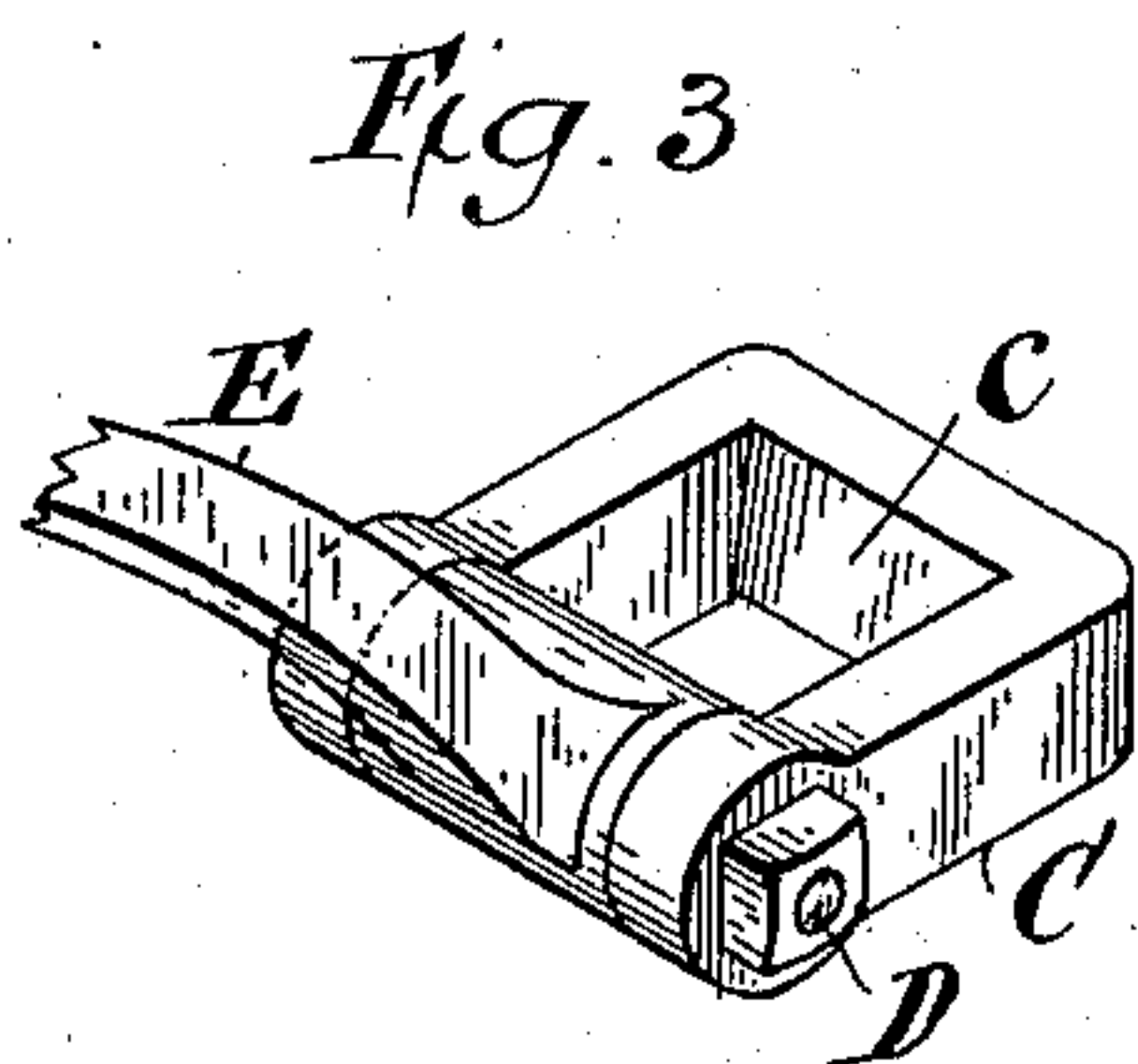
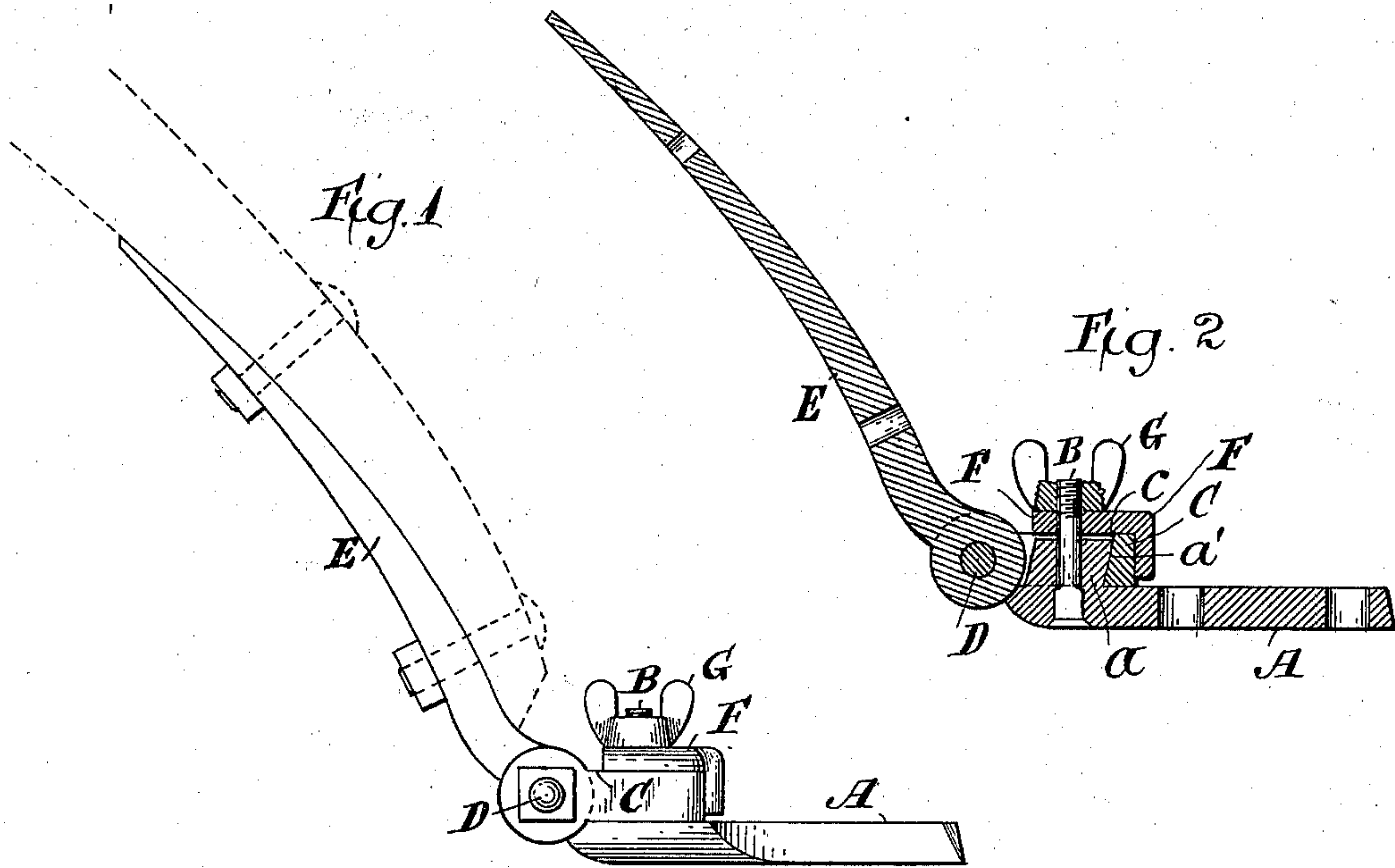
No. 609,181.

Patented Aug. 16, 1898.

E. BRUSH.  
THILL COUPLING.

(Application filed June 26, 1897.)

(No Model.)



Witnesses  
Geo. Wadman  
Ernest Hopkinson

Inventor  
Egbert Brush  
by Edwin J. Brown  
his attorney



# UNITED STATES PATENT OFFICE.

EGBERT BRUSH, OF SMITHTOWN, NEW YORK.

## THILL-COUPLING.

SPECIFICATION forming part of Letters Patent No. 609,181, dated August 16, 1898.

Application filed June 26, 1897. Serial No. 842,413. (No model.)

### *To all whom it may concern:*

Be it known that I, EGBERT BRUSH, of Smithtown Branch, in the county of Suffolk and State of New York, have invented a certain  
5 new and useful Improvement in Thill-Couplings, of which the following is a specification.

My improvement consists in the combination, with a metal strap or plate adapted to be fastened to any suitable part of a vehicle and  
10 having a block or hook extending transversely from it and a screw projecting beyond said block or hook, of a U-shaped coupling-piece pivotally connected to an appurtenance of thills and adapted to engage said block or  
15 hook, and a nut for holding the U-shaped coupling-piece in engagement with the said block or hook, a plate being preferably interposed between the nut and the top of the U-shaped coupling-piece.

20 In the accompanying drawings, Figure 1 is a side view of a thill-coupling embodying my improvement. Fig. 2 is a central longitudinal section of the same. Fig. 3 is a detached perspective view of a U-shaped coupling-piece  
25 and a portion of thills with which it is connected. Fig. 4 is a detached perspective view of a metal strap or plate adapted to engage with the U-shaped coupling-piece. Fig. 5 is a detached perspective view of a plate. Fig.  
30 6 is a perspective view of a nut.

Similar letters of reference designate corresponding parts in all figures.

A designates a strap or plate, of metal, adapted to be secured by screws, bolts, or  
35 analogous devices to any suitable part of the running-gear of a vehicle. It is near its outer end provided with a transversely-extending block or hook *a*, and this in the present instance is shown as extending upwardly. The  
40 rear side *a'* of the block or hook is inclined.

A screw B extends upwardly from the block or hook *a*. Preferably it will be made separately from the block or hook and the plate and will be made to extend up through both.

45 C designates a U-shaped coupling-piece whose ends are perforated to receive a bolt D, passing through them and through a hole in a metal strap or plate E, which is adapted to be fastened by screws or bolts to thills.  
50 The bolt D constitutes a pivotal connection between the U-shaped coupling-piece C and the strap or plate E. The U-shaped coupling-

piece is of such a size and shape as to embrace the block or hook *a*, and preferably the front *c* of the transverse portion of the  
55 coupling-piece will be inclined similarly to the rear side *a'* of the block or hook *a*.

F designates a plate adapted to extend across the U-shaped coupling-piece above the block or hook *a* of the metal strap or plate A. 60 It has a hole for the passage of the screw B and a tailpiece that extends down over the outer surface of the transverse portion of the coupling-piece C. This tailpiece prevents the plate from turning. 65

G designates a nut which is applied to the screw B outside of the plate F. It will be seen that by removing the nut G the plate F may be slipped off and the coupling-piece C detached from the strip or plate A. Thus  
70 thills may be readily detached. They may be almost as readily replaced by slipping the coupling-piece C over the block or hook *a* of the strap or plate A and reapplying the plate F and nut G. 75

The purpose of inclining the rear surface of the block or hook *a* and the opposite surface of the coupling-piece C is to overcome any tendency of the latter to lift off the block or hook, and thus to reduce the strain upon  
80 the plate F and nut G.

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

The combination of a metal strip or plate, adapted to be fastened to any suitable part  
85 of a vehicle, and having a block or hook extending transversely from it, said block or hook having an inclined rear surface, and a U-shaped coupling-piece pivotally connected to an appurtenance of thills, the coupling-  
90 piece having an inside inclined surface next to the inclined surface of the block or hook, and being adapted to engage said block or hook, with means for holding the U-shaped coupling-piece in engagement with the said  
95 block or hook, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EGBERT BRUSH.

Witnesses:

FRANK E. BRUSH,  
E. S. WHEELER.