

J. WEATHERHEAD.

Guard-Straps for Shafts and Strap-Coupling.

No. 169,068.

Patented Oct. 19, 1875.

Fig. 1.

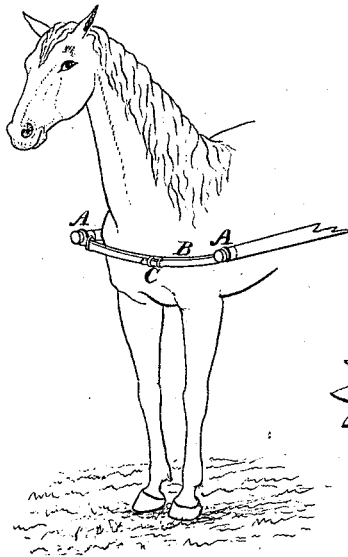


Fig. 2.

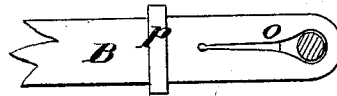


Fig. 3.

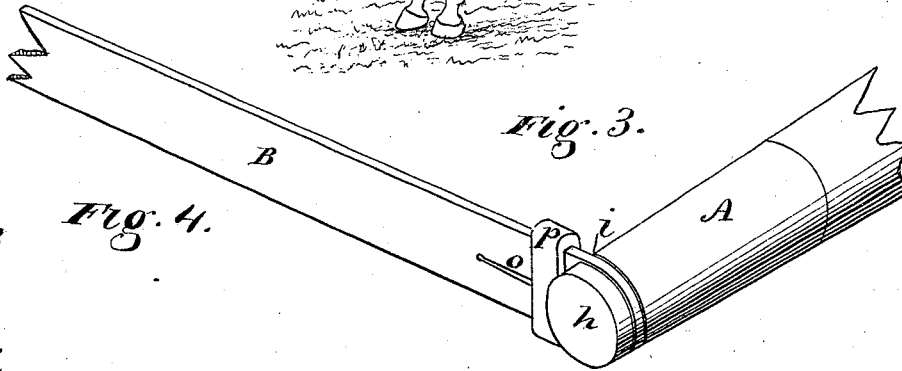
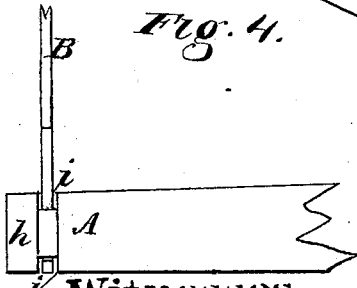


Fig. 4.



Witnesses

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IMPROVEMENT IN GUARD-STRAPS FOR SHAFTS AND STRAP-COUPPLINGS.

Specification forming part of Letters Patent No. **169,068**, dated October 19, 1875; application filed February 18, 1875.

To all whom it may concern:

Be it known that I, JAMES WEATHERHEAD, of San José, Santa Clara county, State of California, have invented a Guard-Strap for Shafts and Strap-Coupling; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention without further invention or experiment.

My invention consists in an improved strap-fastening or thill-coupling, by which the ends of the strap can be cheaply and conveniently attached to the end of the shaft.

In order to more fully illustrate and explain my invention reference is had to the accompanying drawings forming a part of this specification, in which—

Figure 1 is a view showing the application of my device. Fig. 2 is a view of the fastening. Fig. 3 is an enlarged view of the strap and strap end. Fig. 4 is a plan.

A A are the metal points or ferrules which are secured upon the ends of buggy or other vehicle shafts, between which a single horse is attached.

The strap may be made in one or two parts, but I prefer to make it in two parts, and connect them midway between the shafts by means of a buckle, as at *c*, so that it can be shortened or lengthened, as desired.

In attaching the ends of the strap B to the ferrule or ends of the shafts it is advisable that the attachment be made as near the extremity as possible, and in order to accomplish

this I make an annular groove, *i*, around the end of the ferrules A, close to their extremities, so as to form a button, *h*, on their ends. The groove *i* is just as wide as the strap to be attached. I then cut a circular hole near the end of the strap, which is equal in diameter to the diameter of the neck, which connects the button to the ferrule. I then make a split, *o*, in the strap, which will extend a short distance up the strap from the hole, so as to provide a long button-hole, as shown. Upon the strap I then slip a leather slide, *p*, which can be made of leather so as to fit it nicely.

To attach the strap the button *h* is passed through the split *o* until it drops into the groove *i*, when the circular hole will fit the neck of the button. The slide *p* is then slipped up against the ferrule, so as to close the split and hold it together.

This strap-fastening can also be used for attaching tugs to whiffletrees, and in other places where it is desired to attach straps to the ends of shafts, rods, or bars.

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

The leather strap B, having the slot *o* enlarged at one end into a circular opening, and provided with the slide *p* for application to the thills, substantially as and for the purpose set forth.

JAMES WEATHERHEAD.

Witnesses:

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