

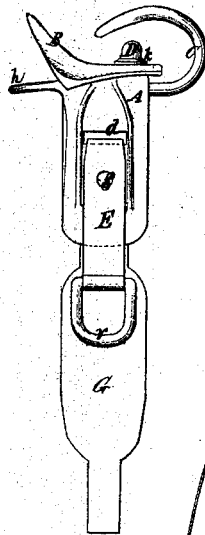
*P. H. Wiedersum,*

*Harness Saddle.*

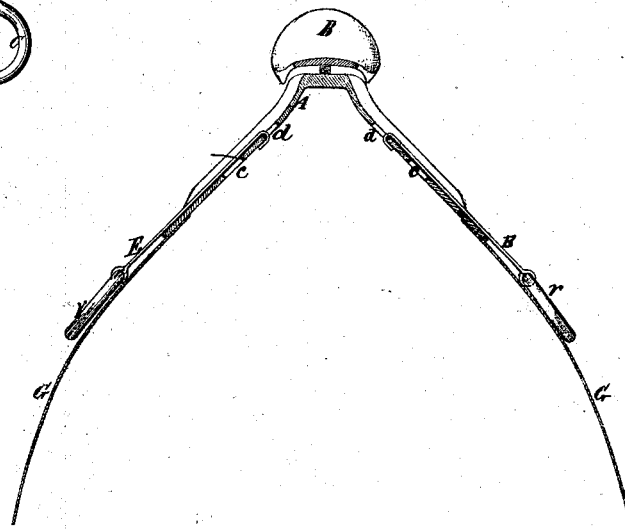
*No. 107,843.*

*Patented Sep. 27 1870.*

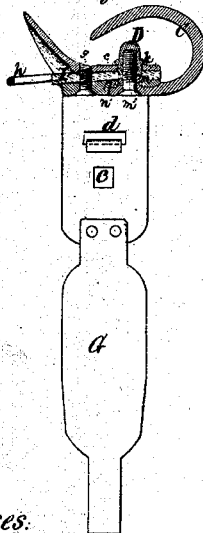
*Fig. 1.*



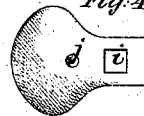
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



*Witnesses:*  
*Fred. Haynes*  
*R. R. Rabeau*



*P. H. Wiedersum*

# UNITED STATES PATENT OFFICE.

PHILIP H. WIEDERSUM, OF NEW YORK, N. Y.

## IMPROVEMENT IN HARNESS-SADDLE TREES.

Specification forming part of Letters Patent No. 107,843, dated September 27, 1870.

*To all whom it may concern:*

Be it known that I, PHILIP H. WIEDERSUM, of the city, county, and State of New York, have invented new and useful Improvements in Harness-Saddle Trees; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, forming a part of this specification.

The nature of this invention consists in a novel construction of the hook and mode of attaching the same to the saddle-tree, whereby greater security is obtained than by the modes of attachment heretofore commonly provided, and projections on the under side of the saddle-tree are avoided.

In the accompanying drawings, Figure 1 is a side view of a saddle-tree constructed according to my invention. Fig. 2 is a central section taken at right angles to Fig. 1. Fig. 3 is a central longitudinal section of the same. Fig. 4 is a top view of a portion of the saddle-tree, and Fig. 5 is a similar view of the hook.

Similar letters of reference indicate corresponding parts in the several figures.

This saddle-tree is composed of two metal castings or plates, A B, the lower, A, of which is bent to conform with the back of a horse, and the upper is of the form of a cantle. In each side of the plate A there is a rectangular slot, running transversely, and below these slots are holes *c c*, for the reception of the terret-nuts. In the front part of the interior of the top portion of the said plate A there is a recess, *n*, to receive the flattened lower end of the hook C, and extending through the center of this recessed portion is a square hole for the reception of a square boss, *m*, on the upper surface of the said end of the hook. Near the rear of the said plate is another hole, to receive a screw, *g*, said hole being countersunk on the lower side to receive the head of said screw. At the rear end of the said piece is a loop, *h*, to which the crupper-strap is attached. The cantle-plate B is provided with a square hole, *i*, near the forward end thereof, and nearer the rear end with a tapped hole, *j*. In the flattened lower portion of the hook C, through the center of its square boss *m*, there is

a hole for the reception of a screw, *e*, said hole being countersunk on the under side for the reception of the head of the said screw. This screw screws into a cap-nut, D, which has a square boss fitting snugly into the square hole *i* in the cantle-plate. This nut has a flange, *k*, which bears upon the top of the cantle-plate, and has a button-like head, which stands up within the hook, and serves to prevent the rein from slipping out of the hook. The hook, being secured by screwing up the screw into the nut, is very firm, and not liable to displacement under any circumstances, and its attachment presents no obstructions of any kind within the interior of the saddle-tree.

E E are two steel straps, hooked at their upper ends into the holes *d d* in the plate A, and having permanently attached to their lower ends the back-band loops *n n*. Some distance below the hooks of said straps are holes *s s*, through which, after the saddle-tree has been covered, the terrets are screwed into the nuts fitted to the plate A for their reception. These straps, carrying the back-band loops, and thus secured to the saddle-tree, form a very secure, neat, and simple attachment for the back-band.

G G are springs, consisting of strips of tempered steel-plate, riveted or otherwise firmly attached by their ends to the lower extremities of the plate A, and curved below the said plate in such manner as to conform approximately to the body of the horse. These springs are covered in the making up of the saddle, and serve to give and preserve the form thereof, and make the saddle sit and ride much easier on the horse, preventing it from bedding down on the horse's back.

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

The hook C, having a square socket on the upper side of its shank, and fitted into the plate A, as described, in combination with the countersunk screw and nut D, fitted to the plate B, in the manner set forth.

PH. H. WIEDERSUM.

Witnesses:

FRED. HAYNES,  
R. E. RABEAU.