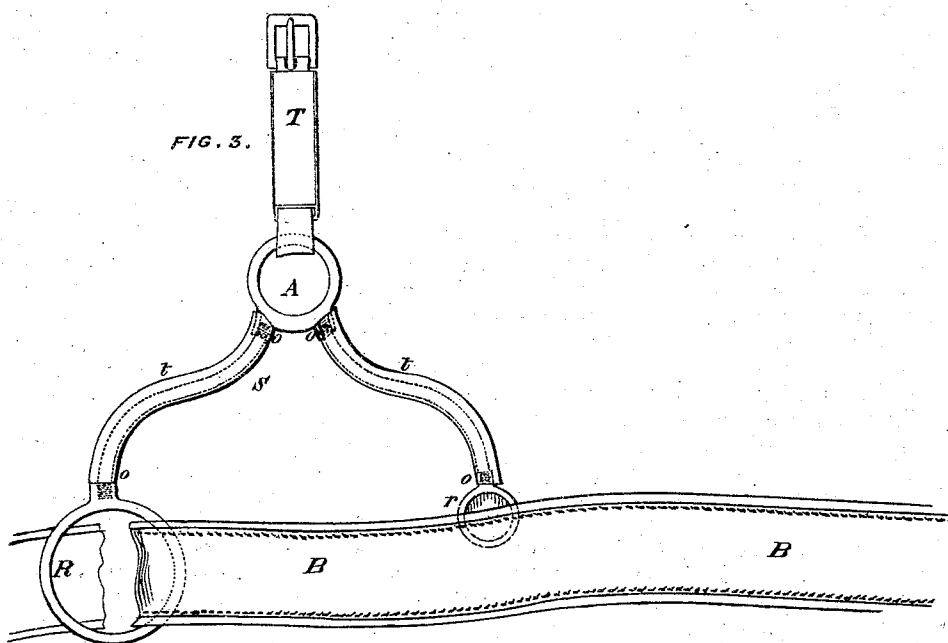
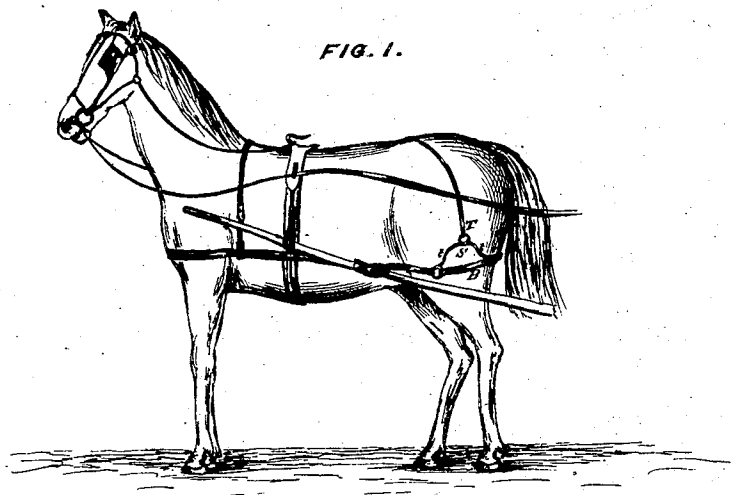


E. CROUGHWELL, A. TILLMAN, & E. L. VANDERBURG.

Breeching-Stays for Harness.

No. 155,182.

Patented Sept. 22, 1874.



WITNESSES:

John A. Pitts

Algerman S. Austin

INVENTORS:

Eugene Croughwell

Augustus Tillman

Edward L. Vandenburg

By their Att'y Daniel Varisco

UNITED STATES PATENT OFFICE.

EUGENE CROUGHWELL, AUGUSTUS TILLMAN, AND EDWARD L. VANDERBURG, OF SAN FRANCISCO, CALIFORNIA; SAID CROUGHWELL AND VANDERBURG ASSIGNORS TO SAID TILLMAN, AND SAID TILLMAN ASSIGNOR OF ONE-HALF HIS RIGHT TO PEMBERTON B. HORTON, OF SAME PLACE.

IMPROVEMENT IN BREECHING-STAYS FOR HARNESS.

Specification forming part of Letters Patent No. **155,182**, dated September 22, 1874; application filed March 29, 1873.

To all whom it may concern:

Be it known that we, EUGENE CROUGHWELL, AUGUSTUS TILLMAN, and EDWARD L. VANDERBURG, of the city and county of San Francisco, State of California, have invented certain Improvements in Harness, known as "Breeching-Stays," of which the following is a specification:

Our invention relates to the introduction of adjustable metallic rings to metallic breeching-stays, in such manner that the breeching-body, breeching-stay, and breeching-tug with buckle, may be readily disengaged from one another by detaching these rings from the extremities of the bent body of the stay, so that this particular part of a harness may both combine strength with convenience for adjustment of the several parts.

Figure 1 represents a horse fitted with a harness having a breeching-stay provided with the adjustable rings embodying our invention. Fig. 3 is an enlarged view of a metallic breeching-stay detached from a harness and fitted with the adjustable rings embodying our invention.

With reference to the drawings, B is the breeching-body; T, the tug and buckle, to which the hip-strap is fastened, all of which parts are constructed in the usual manner adopted in the manufacture of such articles. S is a metallic breeching-stay, consisting of two curved wire-rods, *t*, which meet at a point, *o*, so as to form one of the three ends. This end piece screws into a ring, A, and the other ends of the wire rods *t t* screw into the rings R *r*. The ring R, being of larger size than the

ring *r*, is placed on that side provided for the breeching-strap B to pass through, and the ring *r* is fitted with a leather pad, such as is generally used, for the purpose of being stitched to this breeching-body B. These rings R *r* A, being adjustable to the breeching-stay S, allow of the hip-strap with buckle, breeching-body, or breeching-stay itself, being detached, without injury to the several parts, and with greater convenience than by the means at present adopted; also, by this arrangement of adjustable rings R, *r*, and A, the parts *o o o o* near the extremities of the breeching-stay S, which require strength to resist the attendant wear and tear, are not weakened, as these ends may terminate in sockets for the rings R, *r*, and A to screw into, in place of sockets being constructed on the rings R, *r*, and A for the breeching-stay extremities to fit into.

We do not claim the metallic wires *t t* composing the stay S, as we are aware that these are not new; but

What we claim as our invention, and desire to obtain Letters Patent therefor, is—

The adjustable rings A, R, and *r*, in combination with a metallic breeching-stay, S, ordinary breeching-body B, hip-strap, tug, and buckle T, substantially as and for the purposes herein specified.

EUGENE CROUGHWELL.
AUGUSTUS TILLMAN.
EDWARD L. VANDERBURG.

Witnesses:

SAML. HORMANN,
LIONEL VARICAS.