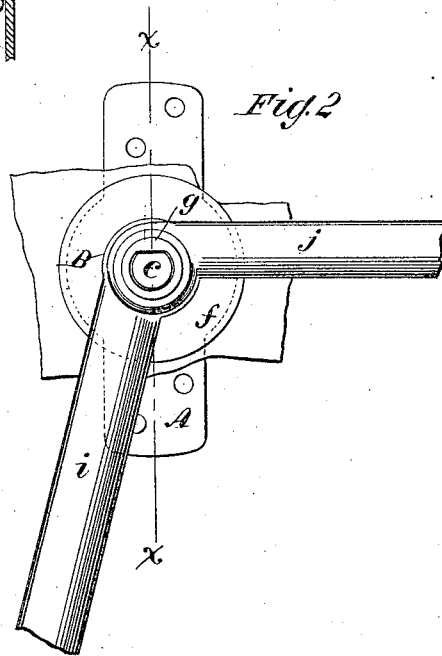
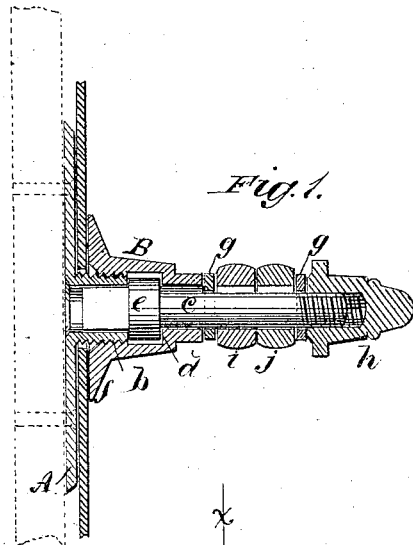


L. SAWYER.
Top-Prop for Carriages.

No. 196,390.

Patented Oct. 23, 1877.



WITNESSES:

Francis Mc Ardle.
J. H. Scarborough.

INVENTOR:

L. Sawyer.
BY *Munn & Co.*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

LEONARD SAWYER, OF MERRIMAC, MASSACHUSETTS.

IMPROVEMENT IN TOP-PROPS FOR CARRIAGES.

Specification forming part of Letters Patent No. **196,390**, dated October 23, 1877; application filed August 18, 1877.

To all whom it may concern:

Be it known that I, LEONARD SAWYER, of Merrimac, in the county of Essex and State of Massachusetts, have invented a new and Improved Prop for Carriage-Tops, of which the following is a specification:

Figure 1 is a longitudinal section on line *x* in Fig. 2 of my improved top-prop. Fig. 2 is an end view with the nut removed.

Similar letters of reference indicate corresponding parts.

The invention will first be described in connection with the drawing, and then pointed out in the claim.

In the drawings, *A* is a plate that is provided with a number of holes for receiving screws, by which it is fastened to the bow. A socket, *b*, is formed on the plate, which is squared internally and fitted to the square head of the bolt *c*. The outside of the socket *b* is round, and is threaded to receive a thimble, *B*, having the internal shoulder *d*, which engages the collar *e* on the bolt *c*, and clamps it tightly against the socket *b*.

A flange, *f*, is formed on the thimble *B*, for

covering the leather around the socket *b*, and the outer end of the thimble is hexagonal, to adapt it to a wrench.

The bolt *c* is flattened on one side from the thimble *B* outward, and to it washers *g* are fitted. One of these washers is placed against the outer end of the thimble, and the other just inside of the nut *h*, that holds the braces *i j* on the bolt.

It will be seen that as the washers *g* cannot turn on the bolt, the nut *h* and thimble will not be unscrewed by the action of the braces.

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

The combination, with cap-nut *h*, braces *i j*, plate *A*, holding the square head of bolt in a square socket, *b*, and the thimble *B*, of the bolt *c*, flattened from the thimble outward, and receiving washers *g g*, correspondingly shaped, as and for the purpose specified.

LEONARD SAWYER.

Witnesses:

E. T. SWAIN,
JAMES D. PIKE.