

J. B. BREWSTER.
SPRING WHIFFLETREE.

No. 183,746.

Patented Oct. 31, 1876.

Fig. 1

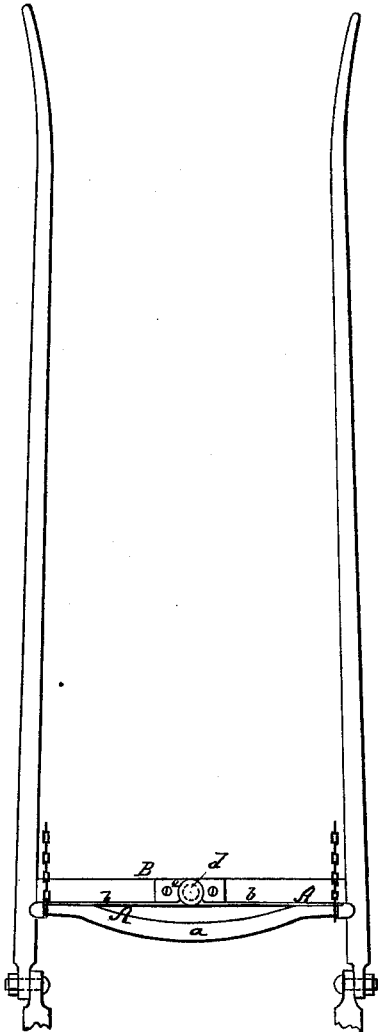
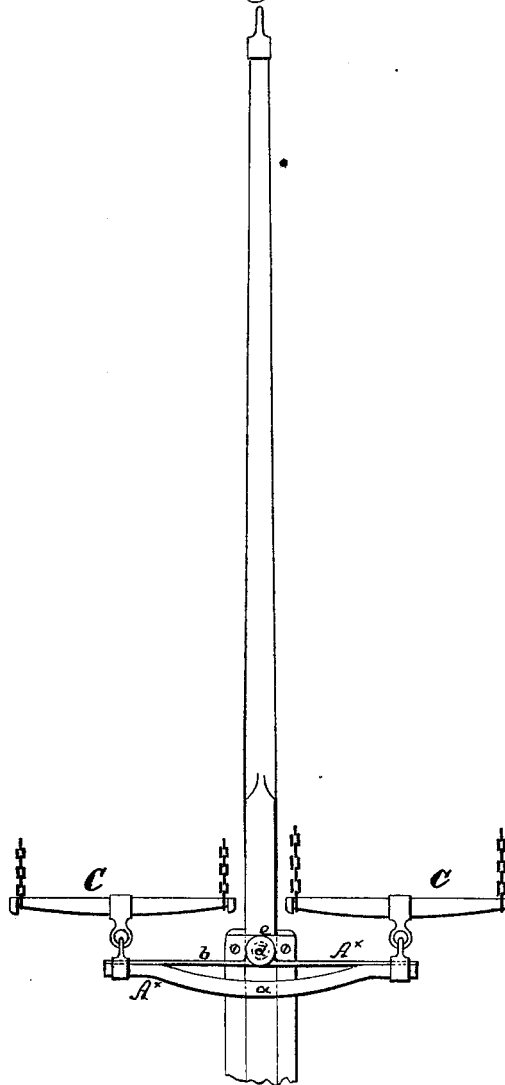


Fig. 2



Witnesses:

A. Moraga.
H. A. Gunther.

Inventor:

James B. Brewster
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UNITED STATES PATENT OFFICE.

JAMES B. BREWSTER, OF NEW YORK, N. Y.

IMPROVEMENT IN SPRING WHIFFLETREES.

Specification forming part of Letters Patent No. **183,746**, dated October 31, 1876; application filed August 22, 1876.

To all whom it may concern:

Be it known that I, JAMES B. BREWSTER, of New York city, in the county of New York, and State of New York, have invented a new and Improved Spring-Bow Whiffletree, of which the following is a specification:

Figures 1 and 2 are plan views of my invention, showing it applied to one and two horse vehicles, respectively.

Similar letters of reference indicate corresponding parts in both figures.

This invention relates to an improvement in whiffletrees and evener-bars; and consists in making the same in form of an archer's bow, spanned with a metal strap or rod, all arranged to render the whiffletree or evener-bar elastic, and thereby facilitate the starting of wagons, carriages, sleighs, horse-cars, or other vehicles to which the same may be applied.

A in the drawing represents my improved whiffletree, shown in Fig. 1 to be applied to a one-horse vehicle. It consists of a wooden bow, *a*, which is spanned by a straight metal rod or strap, *b*, and is thereby rendered a spring-bow. The middle of the metallic rod or strap *b* connects with the whiffletree-bar B of the vehicle by a bolt, *d*, or other suitable fastening, said bolt or fastening passing through an eye or loop, *e*, which is formed on

the rod or strap *b*, or connecting therewith in other manner. In use the whiffletree is so applied that the rod or strap *b* is in front, as shown, the effect of the draft on the whiffletree being to spring the bow *a*, and thus utilize its elasticity. Instead of securing the whiffletree at the middle of the metal rod *b* by suitable fastenings, it may be secured at the middle of the bow.

The invention is equally applicable to one and to two horse vehicles. But in the latter case I prefer to apply it to the evener-bar A^x, as shown in Fig. 2—that is to say, to make the evener-bar of the bow *a* and rod *b* in manner described, and apply to it two whiffletrees, C C, of ordinary or suitable construction.

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

The spring-bow whiffletree or evener-bar, made of the bow *a*, and metal spanning-rod *b*, substantially as herein shown and described.

The above specification of my invention signed August 18, 1876.

JAMES B. BREWSTER.

Witnesses:

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