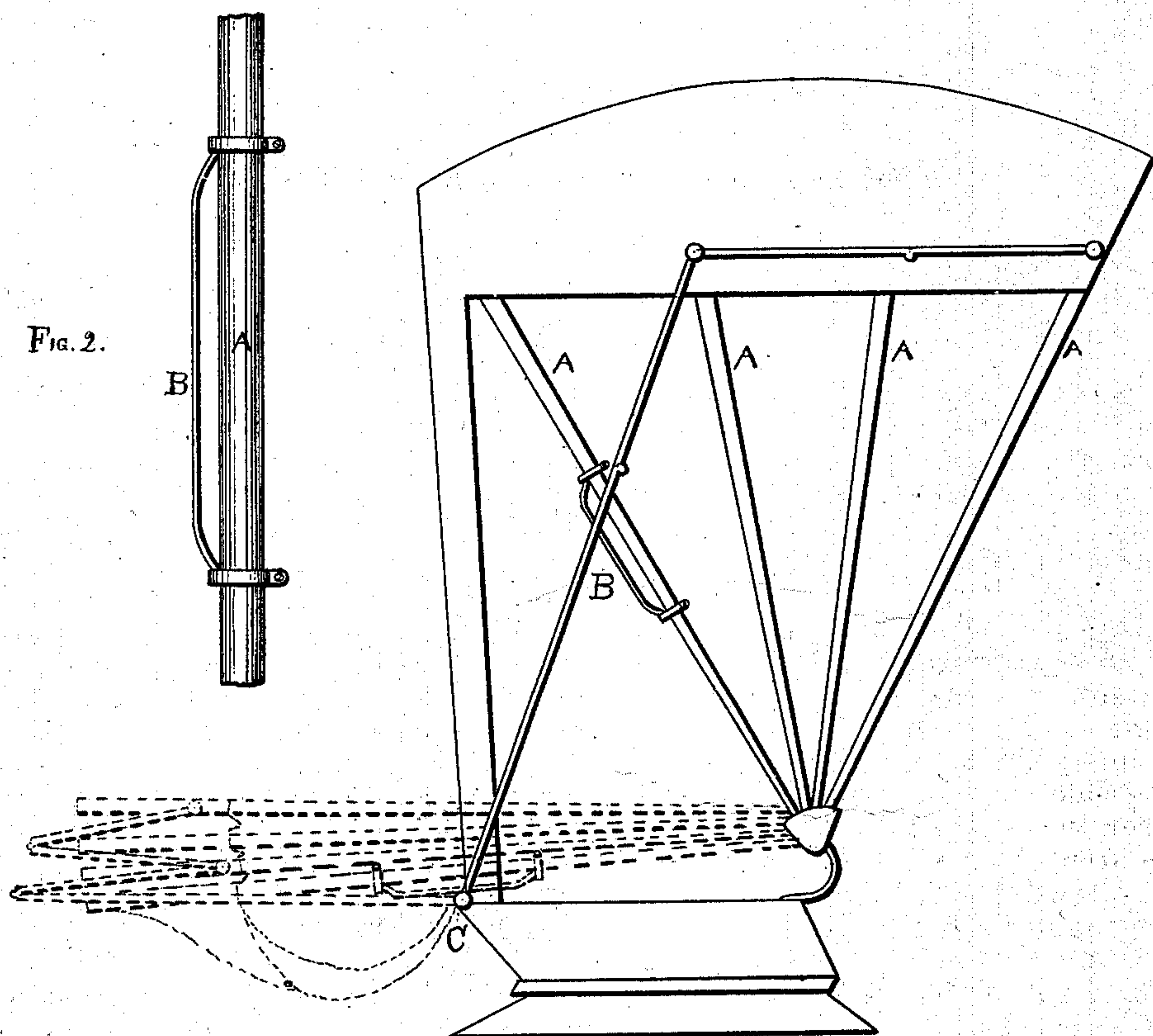


J. N. GILL.
Carriage-Tops.

No. 144,612.

Patented Nov. 18, 1873.



WITNESSES,

Geo. W. Burnell
R. O. Hance

INVENTOR.

James N. Gill

UNITED STATES PATENT OFFICE

JAMES N. GILL, OF OSHKOSH, WISCONSIN.

IMPROVEMENT IN CARRIAGE-TOPS.

Specification forming part of Letters Patent No. **144,612**, dated November 18, 1873; application filed August 21, 1873.

To all whom it may concern:

Be it known that I, JAMES N. GILL, of Oshkosh, in the county of Winnebago and State of Wisconsin, have invented a certain Carriage-Bow Preserver, of which the following is a specification:

The first object of my invention is to prevent injury to the carriage-top, when the same is let down, from the back bow striking too suddenly and solidly upon the iron forming the lower joints. The second object of my invention is to make the bow of the carriage-top stronger when the top is down by shortening the leverage from the point of support. The third object of my invention is, that when the carriage is being driven with the top down the weight of the top rests upon an elliptic spring, and prevents its receiving any injury from jolting.

Figure 1 is a side elevation of the top of a carriage with my invention attached to the back bow thereof. Fig. 2 is a section of the bow with my invention attached, and showing more plainly the method of attaching the same.

A in Fig. 2 is the carriage-top bow, or a

section thereof. B is the spring, made of steel or other elastic metal, fastened at each end by a clasp or band to the bow, the ends of this clasp being fastened together by means of a screw, so that it may be attached or removed at pleasure. In Fig. 1, B represents my invention. C represents the iron pivot which forms the joint and support on which the weight of the top principally rests when down, and the shaded lines the top when down. When the top is down, as it will be seen from Fig. 1, the spring B strikes the iron C at about the middle, and the bow or top receives no injury in falling and none from jolts while driven with the top down, since the spring B breaks the force of the blow.

I claim as my invention—

The combination of the spring and clasps B and the bow A, substantially as and for the purpose set forth.

JAMES N. GILL.

Witnesses:

GEO. W. BURNELL,
R. E. DANIEL.