

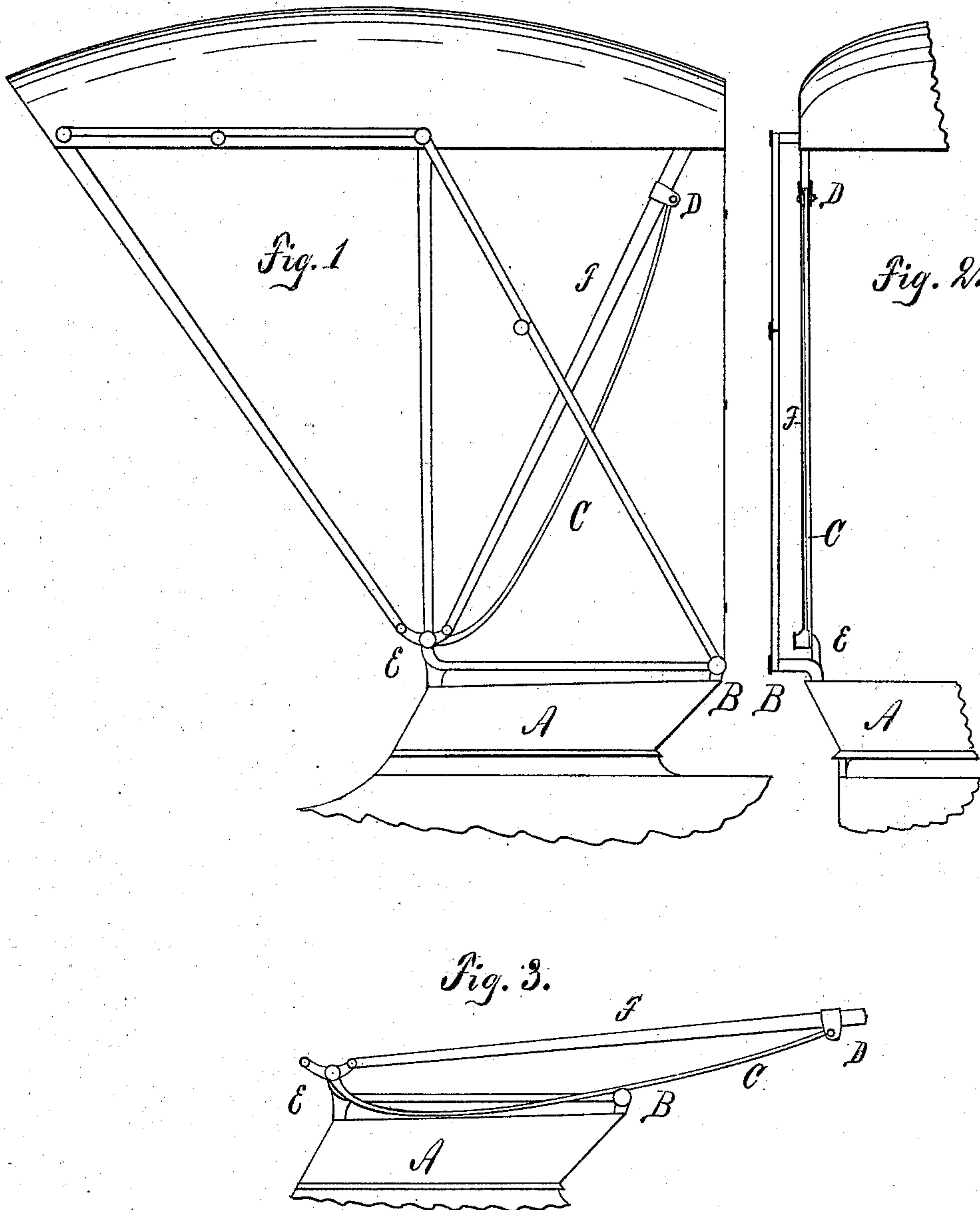
(No Model.)

S. McELHANEY.

BUGGY BOW SPRING.

No. 272,071.

Patented Feb. 13, 1883.



WITNESSES:

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SAMUEL McELHANEY, OF POLO, ILLINOIS.

BUGGY-BOW SPRING.

SPECIFICATION forming part of Letters Patent No. 272,071, dated February 13, 1883.

Application filed November 17, 1882. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL McELHANEY, a resident of Polo, in the county of Ogle and State of Illinois, have invented certain new and useful Improvements in Buggy-Bow Springs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

My invention is a new and improved device to be attached to the rear bow of a buggy-top for the purpose of guarding against the breaking of the bow when the top is suddenly thrown back, and to carry the weight of the top when down. It is described in the following specification and shown in the accompanying drawings, in which—

Figure 1 is a side elevation of a buggy-top with the device attached to the rear bow and the top raised; Fig. 2, a rear elevation of one side of same, and Fig. 3 a side elevation of the rear bow with device attached in the position assumed when the top is down.

The device consists of a curved spring, C, of steel or other suitable material, pivoted at its lower end on the bolt E, which forms the pivot on which the bows are hinged, and fastened at its upper end to the rear bow, F, by means of a clip, D. The spring C is a curve of which the bow F is the chord, their only points of contact being at the ends of the spring, and the curve lies wholly on the rear side of the bow. The clip D may fit loosely on the bow, so as to allow longitudinal play of the spring; but I prefer to have it tight on the bow, as the stiffness of the spring is thereby increased, and any tendency of the clip to wear the surface of the bow is obviated.

The operation of the device is evident. When

the top is thrown back, instead of the bow F striking the bolt B, which forms the pivot of the brace, the interposed spring C strikes on the bolt and receives the force of the blow. The bows are rigid, and it frequently happens that when the top is thrown back suddenly the force of the fall breaks the bow, whereas when the device shown is used the yielding spring acts as a cushion and breakage is impossible. When the top is down the weight is borne by the spring, which rests on the bolt B and forms a yielding support, taking off the strain caused by any sudden jar from inequalities in the roadway passed over.

It is evident that the form of the clip D may be changed, as any attachment of the upper end of the spring to the bow will answer the purpose; but I consider the form of attachment shown the simplest and most convenient and economical.

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

1. In combination with the rear bow of a buggy-top, a curved spring lying in rear of said bow, rigidly attached thereto at its upper end, and pivoted at its lower end at the point of intersection of the bows, substantially as described, and for the purpose set forth.

2. The combination of the bow F, spring C, clip D, and bolt E, substantially as shown and described, and for the purpose set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

SAMUEL McELHANEY.

Witnesses:

R. H. WILES,
O. L. TAYLOR.