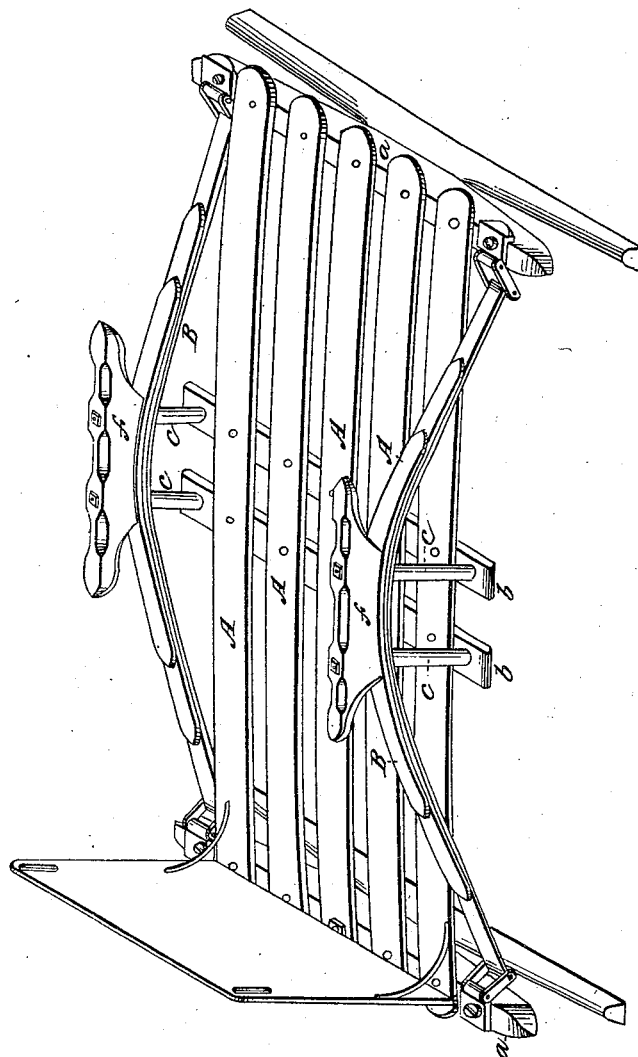


T. H. PRUSHAW.

Carriage Spring.

No. 109 544.

Patented Nov. 22. 1870.



WITNESSES:

J. R. Drake

C. R. Woodward

INVENTOR:

by Thos. H. Prushaw
J. Fraser & Co. attys

United States Patent Office.

THOMAS HENRY PRUSHAW, OF FREDONIA, NEW YORK, ASSIGNOR TO
TAYLOR, DAY & CO., OF SAME PLACE.

Letters Patent No. 109,544, dated November 22, 1870.

IMPROVEMENT IN CARRIAGE-SPRINGS.

The Schedule referred to in these Letters Patent and making part of the same.

I, THOMAS HENRY PRUSHAW, of Fredonia, in the county of Chautauqua and State of New York, have invented certain new and useful Improvements in Buggy and Wagon Springs, of which the following is a specification.

Nature of the Invention.

This invention consists in the combination of the "half-elliptical" side springs, with the slatted bottom springs, as hereinafter described.

General Description.

The drawing represents a perspective view of my invention attached to part of a buggy.

A A' are slatted wooden springs, which form the floor of the vehicle.

B B' are half-elliptical metallic side springs, having their ends attached to the bolsters a a'.

Two central cross-pieces b b', passing underneath and secured to the bottom springs A A', connect the half-elliptical side springs and bottom springs together by means of the bolts and stiffening tubes c c', or their equivalents, as clearly shown in the drawing, being held at the top by block f.

The special advantages of this construction are, that the bottom springs will, of themselves, used alone, after awhile, "sag" down, and become nearly

useless; but, by being connected with the side springs, they are stiffened and held up in place, while the side springs derive an equal benefit from the connection with the slats, which prevents too great an upward motion to the side springs, thus one spring equalizing the other.

Over rough roads this will be especially useful, where the common elliptical or half-elliptical springs are objectionable.

An undue elasticity, which produces bounding and rocking, is prevented by the two sets of springs, while at the same time sufficient elasticity is retained to produce the desired effect.

I claim as my invention—

1. The combination of the slatted springs A A', with the side springs B B', and the head-blocks a a', for the purpose hereinbefore specified.

2. The arrangement of the slatted springs A A', elliptical side springs B B', central cross-bars b b', and connecting bolts and tubes c c', operating in the manner and for the purpose specified.

In witness whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

THOMAS HENRY PRUSHAW.

Witnesses:

J. R. DRAKE,

ALBERT HAIGHT.