

J. FRISON.
Side-Bar Wagon.

No. 226,298.

Patented April 6, 1880.

Fig. 1.

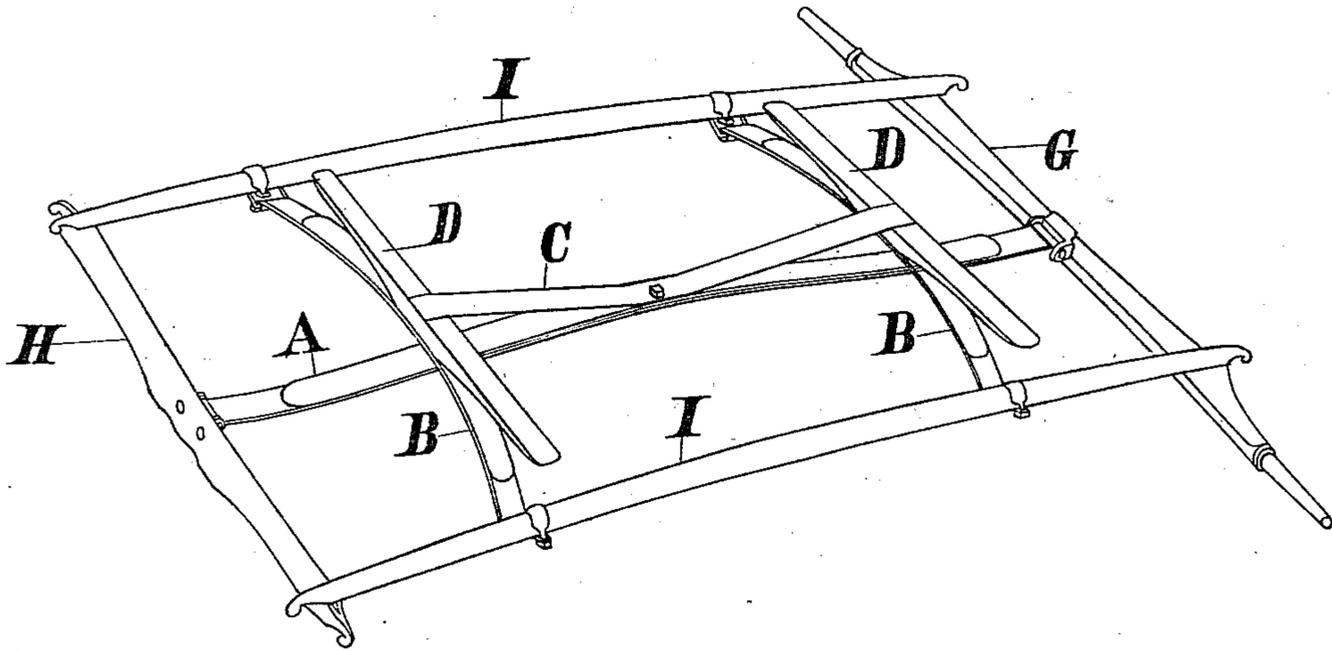
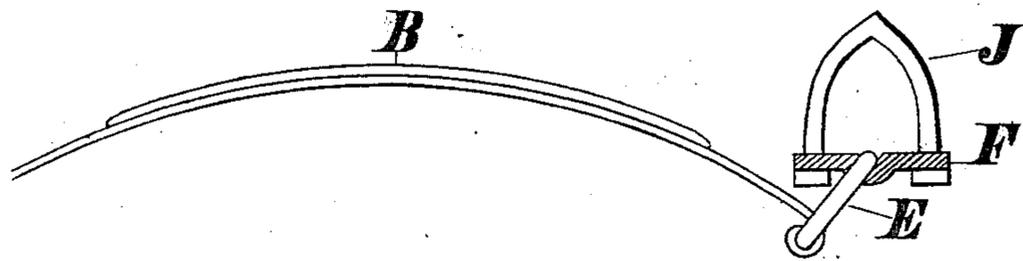


Fig. 2.



Witnesses:

Edward, J. Cheney
Frank W. Craig

Inventor:

Joseph Frison.

UNITED STATES PATENT OFFICE.

JOSEPH FRISON, OF HERMON, NEW YORK.

SIDE-BAR WAGON.

SPECIFICATION forming part of Letters Patent No. 226,298, dated April 6, 1880.

Application filed October 1, 1879.

To all whom it may concern:

Be it known that I, JOSEPH FRISON, of Hermon, in the county of St. Lawrence and State of New York, have invented certain new and useful Improvements in Springs for Side-Bar Wagons; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being made to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 represents a perspective view of a device embodying my invention; Fig. 2, a detached view, showing the manner of coupling the springs to the side bars.

My invention relates to certain new and useful improvements in the class of side-bar spring-wagons; and the invention consists in a novel construction, combination, and arrangement of parts, all as will be hereinafter fully described, and specifically pointed out in the claim.

In the drawings, A represents a longitudinal central spring connected to the front rocker, H, and rear axle-tree, G. B B represent two half-elliptic springs connected to the side bars, I I, by the pivoted links E, clip-yoke F, and clips J, as clearly shown in Fig. 2, so that the

springs are adapted to lengthen to their full elastic capacity. The springs A and B B are connected by means of a central longitudinal bar, C, centrally bolted to the spring A, and connected at its ends centrally to the springs B B. By connecting said springs to each other, as described, the motion of said springs is more uniform and steady.

D D represent wooden bars for the wagon-body to rest on.

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

The combination, with the front rocker, H, rear axle-tree, G, and side bars, I I, of the longitudinal central spring, A, connecting said rocker and axle-tree, the transverse half-elliptic springs B B, connecting said side bars, and the longitudinal central steel bar, C, centrally secured to the spring A and connected at its ends centrally to the springs B B, substantially in the manner herein shown and described.

JOSEPH FRISON.

Witnesses:

JAMES KELLY,
ADAM FRISON.