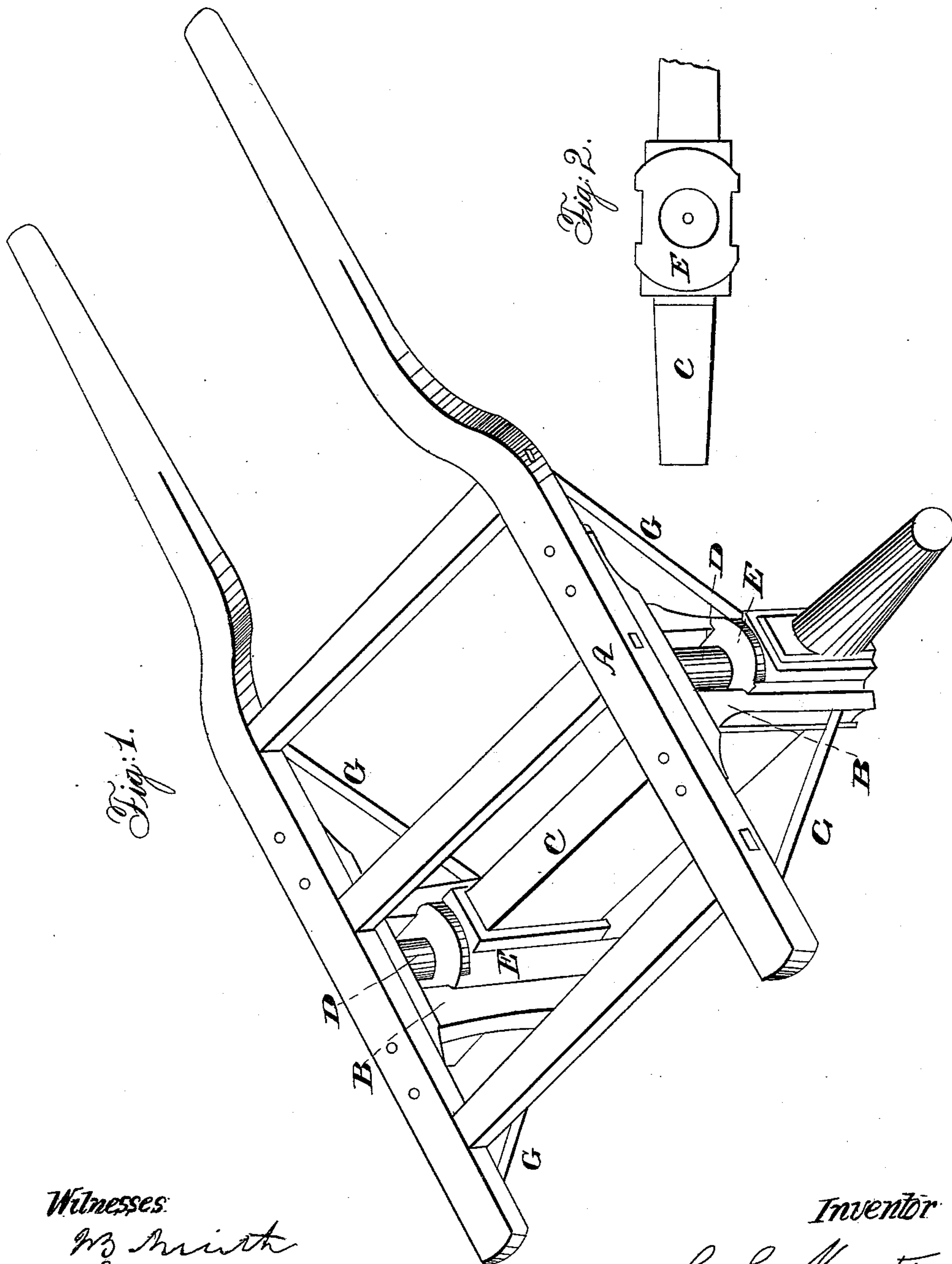


C. S. MARTIN.

Dray.

No. 64,346.

Patented Apr. 30, 1867.



Witnesses:

W. Smith
Chas. A. Smith

Inventor

C. S. Martin

United States Patent Office.

CHARLES S. MARTIN, OF MILWAUKEE, WISCONSIN.

Letters Patent No. 64,346, dated April 30, 1867.

IMPROVEMENT IN DRAYS.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, CHARLES S. MARTIN, of Milwaukee, in the county of Milwaukee, and State of Wisconsin, have invented an improved Dray; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a perspective view; and

Figure 2 is a top view of the axle.

The same letters are employed in both figures in the indication of the same parts.

A represents the body of an ordinary two-wheeled dray. B B are metallic jaws bolted to the bottom of the dray body. The vertical parallel jaws are attached to, and project from, the horizontal plate through which the bolts pass. C is the axle, on which are placed the metallic guides E. The upper part of the guide-plate sustains a block of India rubber, D, forming the springs. There is a groove in the front and back sides of each of these pieces E, or a recess formed by two parallel projections on each side, to receive the jaws B, which play vertically in these grooves or recesses with the action of the load upon the springs. G G are braces, the upper ends of which are fastened to the body of the dray, and the lower ends to the lower part of the vertical jaws B. By using this brace the jaws may be made much lighter than they would require to be made without the braces; and any variation of construction by which this additional strength would be given I regard as the mere equivalent of the braces, which I prefer to use rather than to increase the weight of the castings.

I do not claim the arrangement of parts for the support of the India-rubber springs independently of the other parts of the dray, for I am aware that similar devices have been used in the application of such springs to railroad cars. My invention consists in the production of a new article of manufacture, viz, a dray to which India-rubber springs are applied, substantially as described. Steel springs have been used in the construction of drays; but they add greatly to the cost of the dray, and also to its weight. My improved dray can be built without adding materially to either the cost of the dray or to its weight; and I thus produce an improved dray with the advantages belonging to the use of springs, and without adding materially to the height of the body of the dray, to its weight, or cost.

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

A dray constructed with springs of India rubber D, placed between the guide-plates E attached to the axle C, and vertically sliding jaws B attached below the body A, and strengthened by braces G, said parts being combined and arranged substantially as described.

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

C. S. MARTIN.

Witnesses:

E. MASSON,

SAM. M. DIXON.