

J. W. MAGOUN.
Side Bar Carriage.

No. 231,339.

Patented Aug. 17, 1880.

Fig. 1.

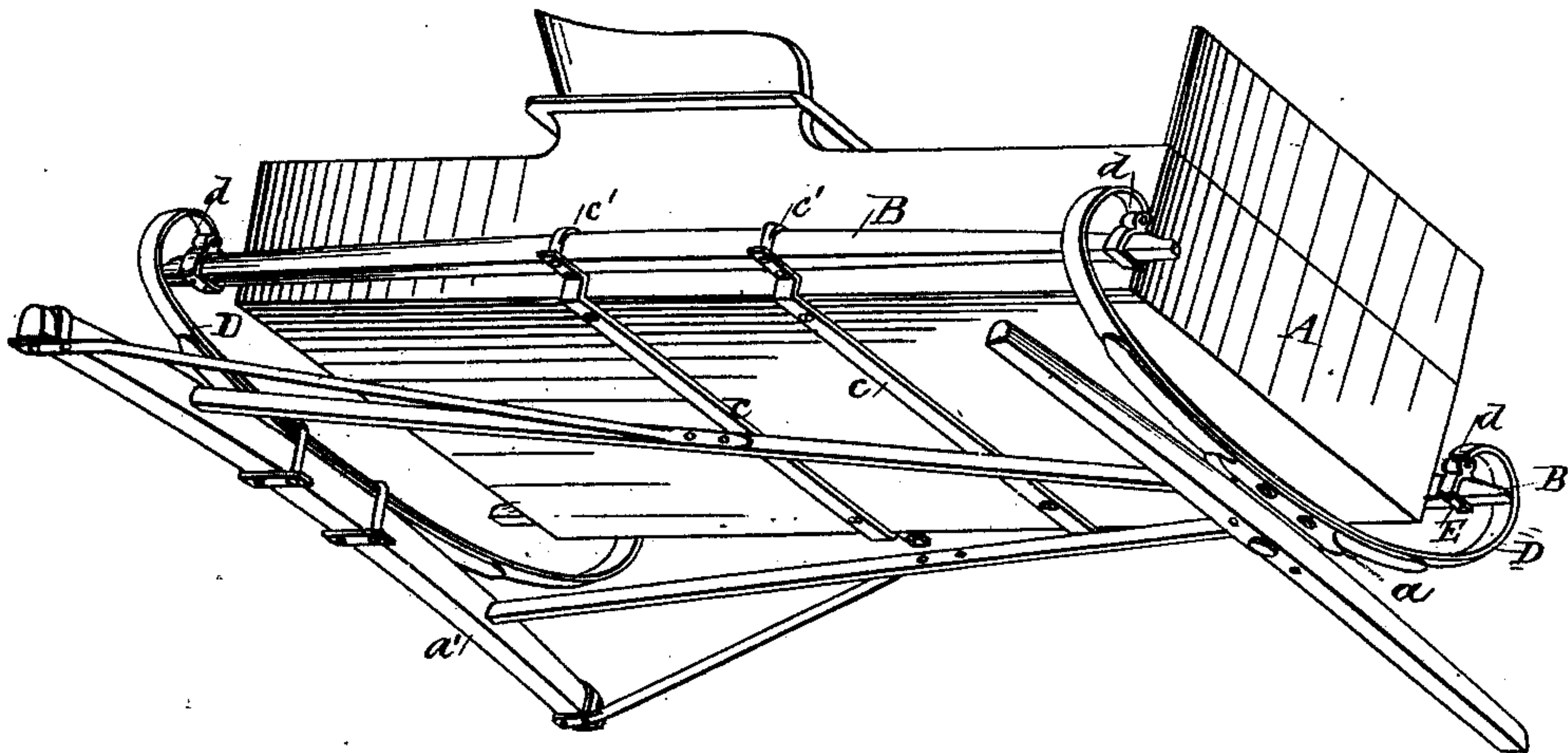


Fig. 2.

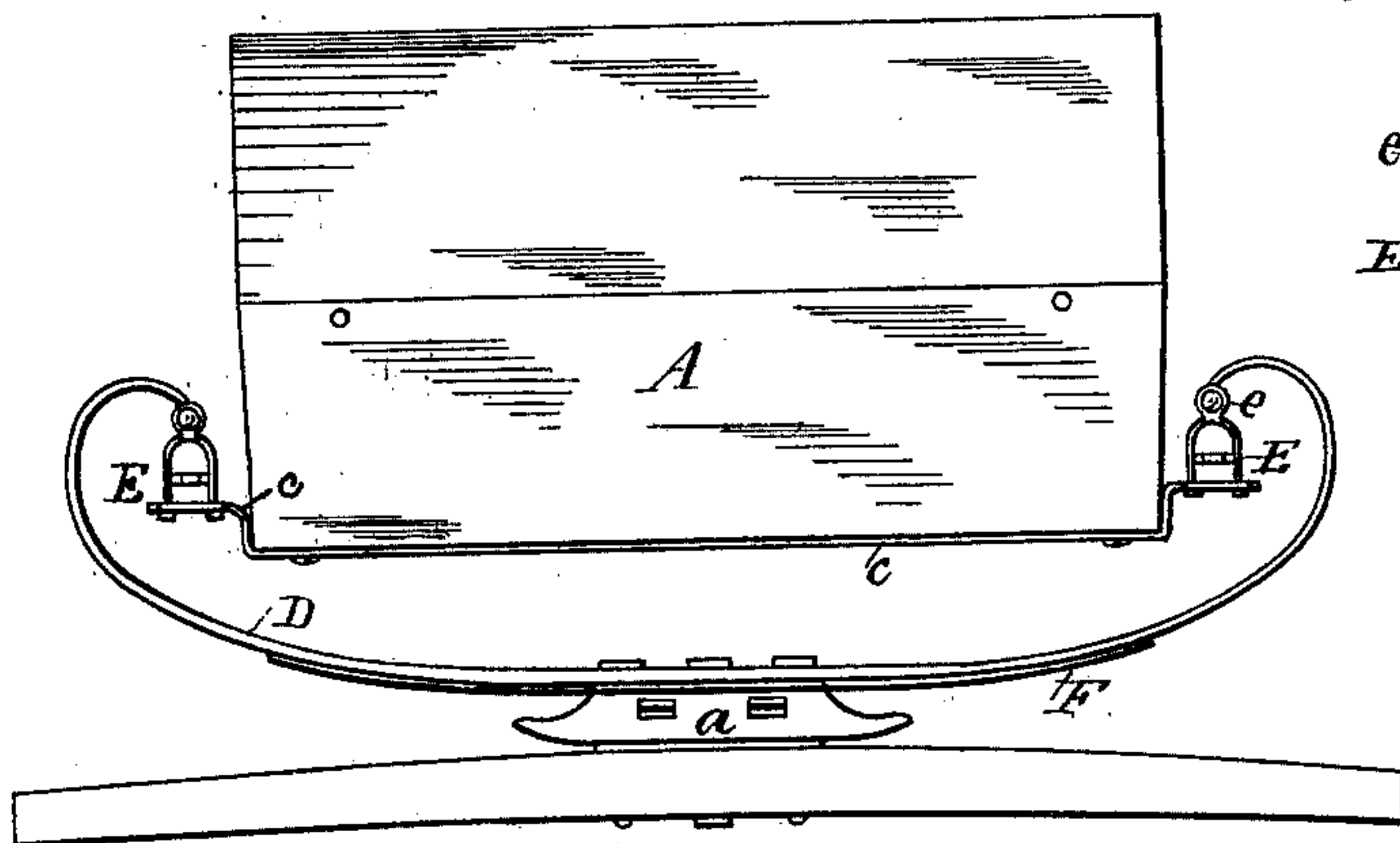


Fig. 4.

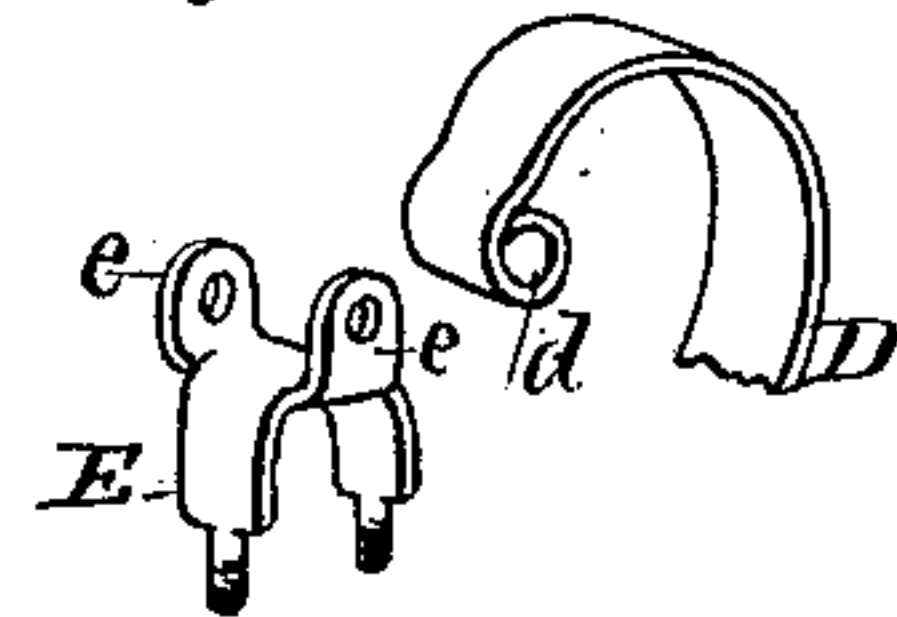
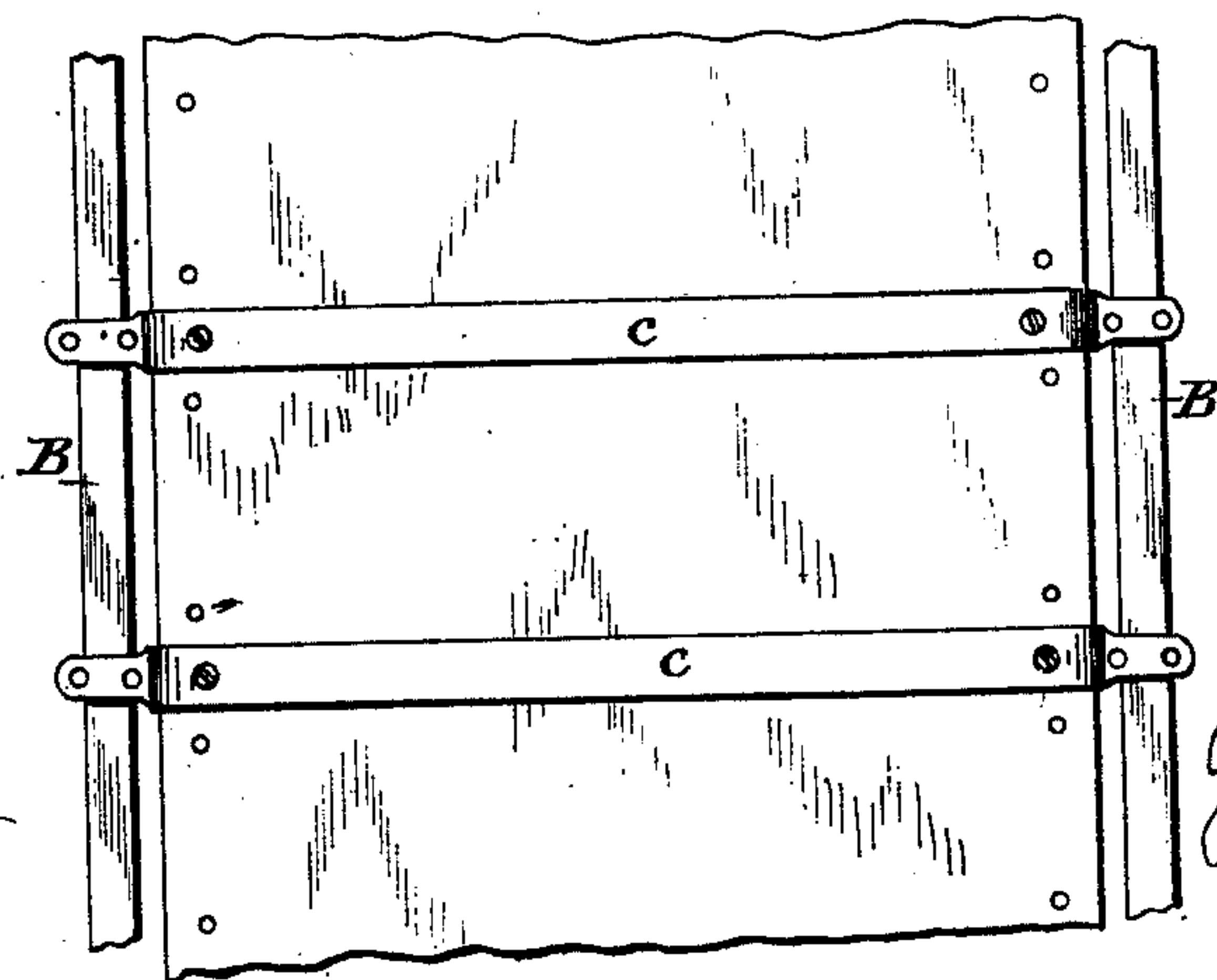


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN W. MAGOUN, OF BATH, MAINE.

SIDE-BAR CARRIAGE.

SPECIFICATION forming part of Letters Patent No. 231,339, dated August 17, 1880.

Application filed February 4, 1880.

To all whom it may concern:

Be it known that I, JOHN W. MAGOUN, a citizen of the United States, residing at Bath, in the county of Sagadahoc and State of Maine, have invented certain new and useful Improvements in Side-Bar Carriages; 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 ap-
10 pertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 is a view, in perspective, showing the present invention applied to a wagon. Fig. 2 is a front elevation of same device. Fig. 3 is a bottom plan, in detail, to show the central supports for the carriage-body. Fig. 4 shows how side bar is attached to the springs.

20 This invention is an improvement in that class of carriages known as "side-bar;" and it consists in the combination, as hereinafter described, of C-shaped springs having their ends turned upward and inward to form eyes, spring-supporting clips fastened at the ends of the side bars and having ears between which said springs are pivoted, straps angularly bent at each end for supporting the body and side bars, and clips for securing said straps to the side bars.

30 In the drawings, A denotes any ordinary carriage-body, and B the side bars, to and upon which said body is hung by metal straps or bands *c*, which are secured to the body by screws or in any suitable way, and to the side bars along its middle part by clips *c'*.

40 The ends of the side bars, at the front and rear of the carriage-body, are fastened to the bent ends of the springs D. These are fixed, the one centrally on the head-block *a* in front, and the other on the axle *a'* in the rear, and thence extending on each side in an upward curve is bent over at its ends into an eye, *d*, which fits between the ears *e* of the clip E, and is held here by a headed bolt, which passes through the said ears and eye, and thus a secure as well as flexible connection is formed.

50 The metal clip E is of suitable shape and size to fit, as aforesaid, on the side bar, and is secured to it in any suitable way.

The springs D preferably are thickest at the center, and gradually become considerably thinner at the ends. It may also be strengthened or supported by an additional spring, F, at its middle part.

As thus applied to the carriage-body the said springs allow the easiest and most comfortable motions to the carriage when it is being used.

60 The connection of the several parts is very simply done so far as the mechanical execution, while at the same time it is very strong and durable.

A carriage thus constructed is not only very agreeable to use, but can be made of a very handsome and attractive form, since the peculiar shape and application of the C-spring will give the carriage a peculiarly novel and pleasing appearance.

70 I am aware that C-shaped springs are of themselves not new; and I am also aware that side-bar vehicle-bodies have been supported upon springs in various ways; hence I do not claim such, broadly, as my invention.

75 The construction and combination of parts as claimed by me are simple and cheap, and yet strong and durable, and give an easy and free movement of the body without liability of breakage when the wheels pass into ruts or other hollows.

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

85 The combination of the C-shaped springs D D, having their ends turned upward and inward and forming eyes *d d*, the clips E E, fastened at the ends of the side bars B B, and having ears *ee*, between which the springs are pivoted, the body A, the supporting-straps *c c*, angularly bent at each end to afford support to the body and the side bars, respectively, and the clips *c' c'*, for securing said straps to the side bars, substantially as described.

95 In testimony whereof I affix my signature in presence of two witnesses.

JOHN W. MAGOUN.

Witnesses:

SAMUEL ANDERSON,
JOHN K. TRUSSELL.