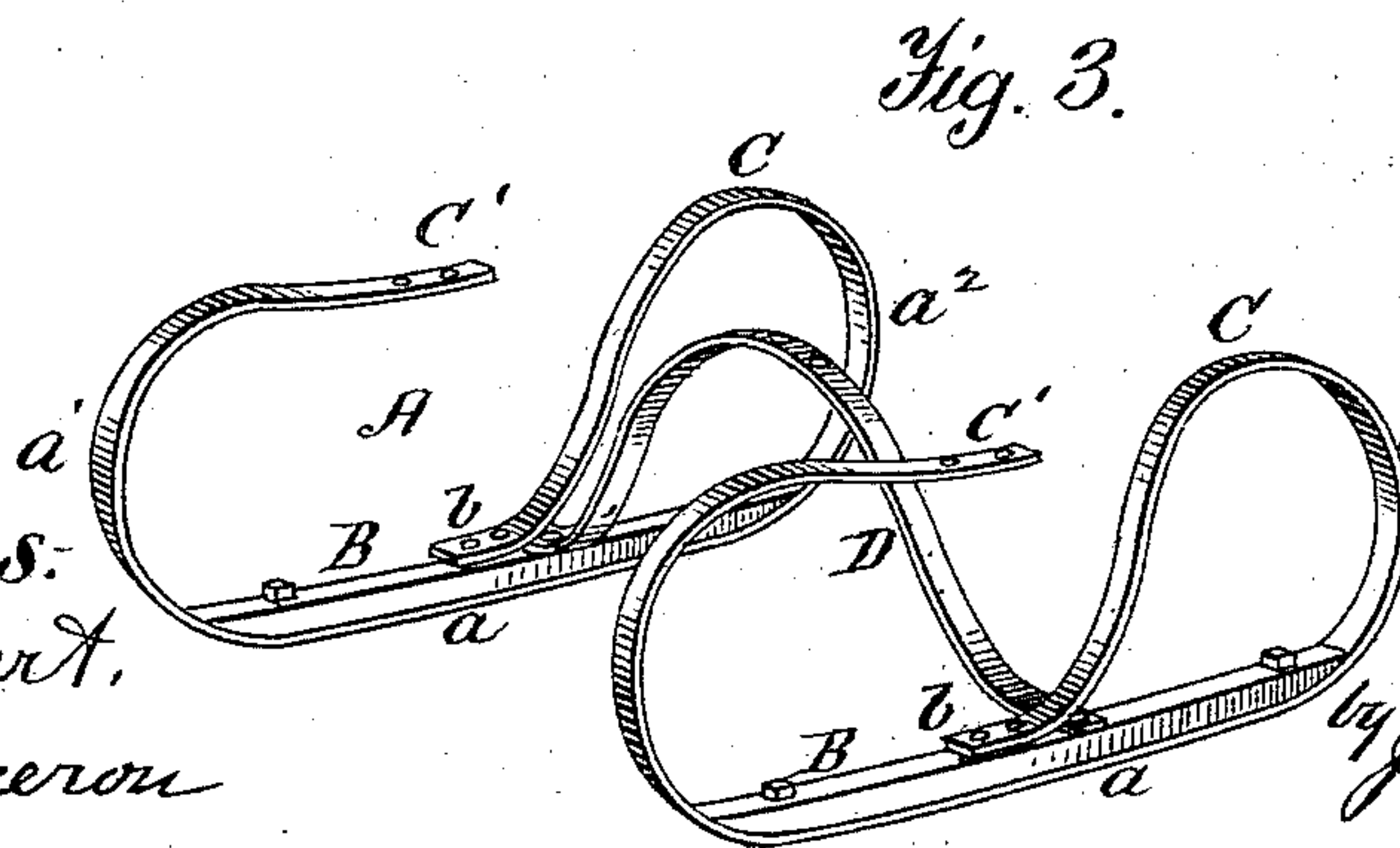
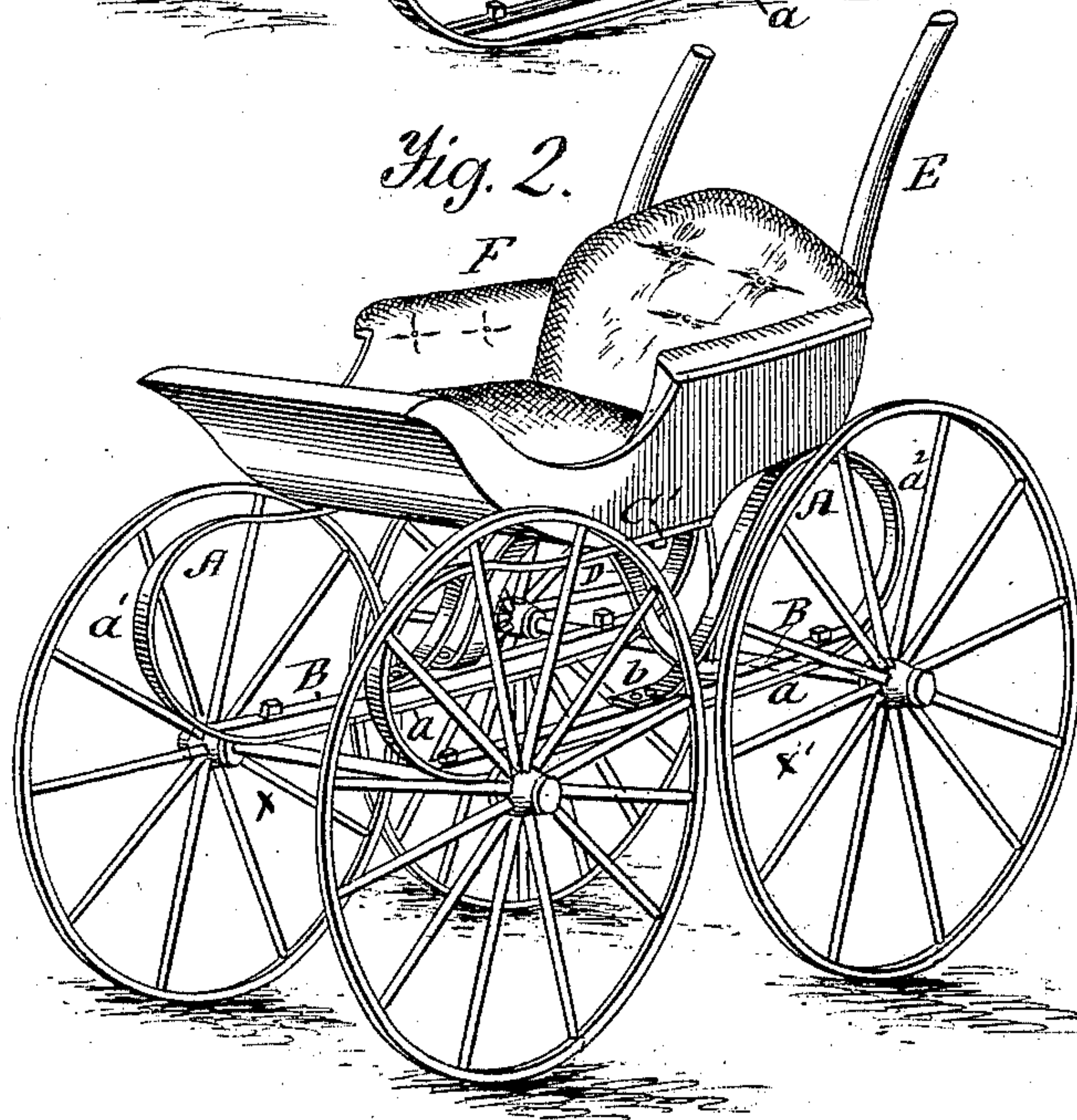
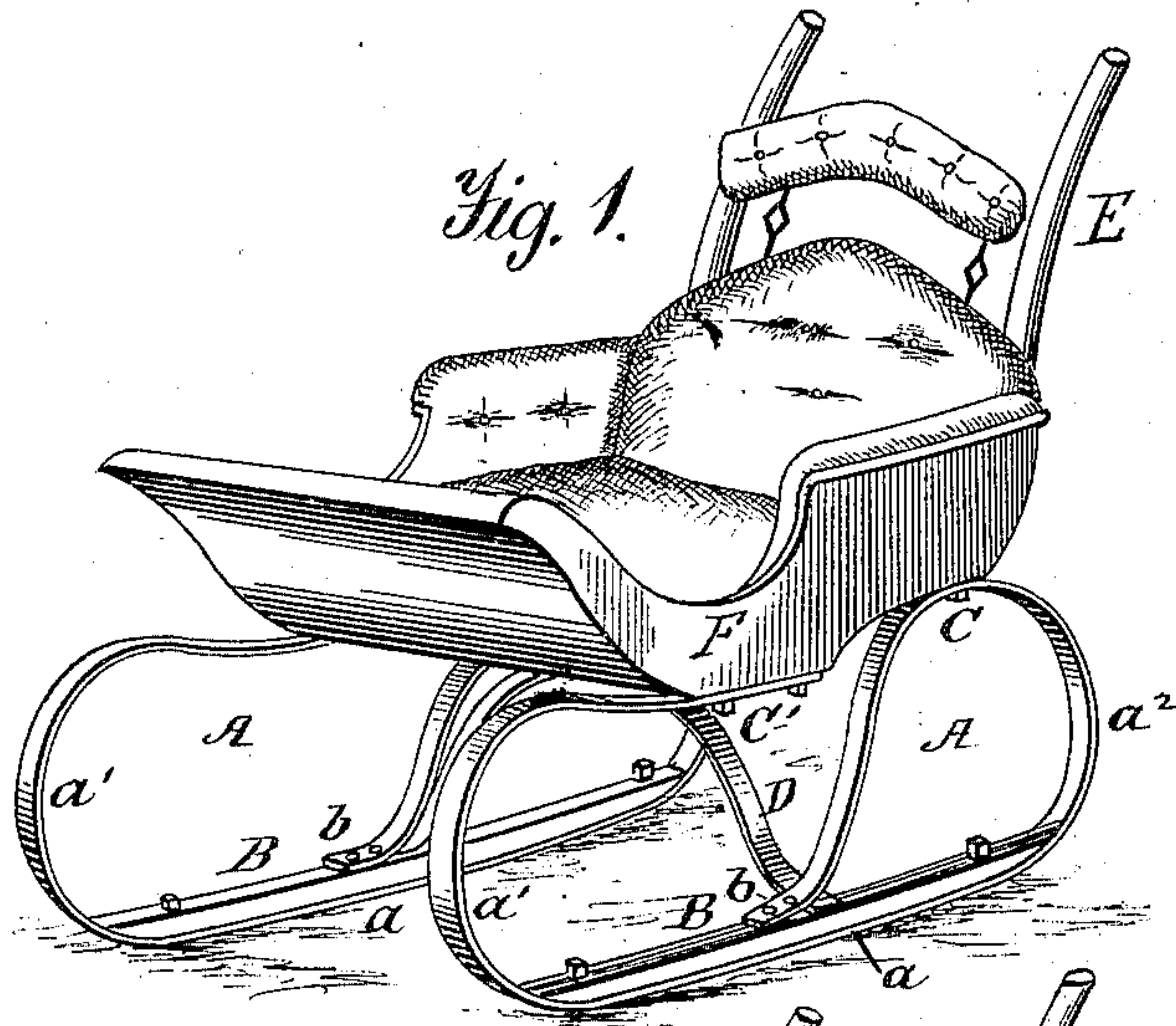


(No Model.)

C. S. STROWBRIDGE.  
CHILD'S CARRIAGE.

No. 285,935.

Patented Oct. 2, 1883.



*Witnesses:*  
*A. Ruppert,*  
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*Inventor.*  
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*by R. Nottingham*  
*Assn. Atty.*



# UNITED STATES PATENT OFFICE.

CLARENCE S. STROWBRIDGE, OF CORTLAND, NEW YORK.

## CHILD'S CARRIAGE.

SPECIFICATION forming part of Letters Patent No. 285,935, dated October 2, 1883.

Application filed April 14, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, CLARENCE S. STROWBRIDGE, a citizen of the United States, residing at Cortland, in the county of Cortland and State of New York, have invented certain new and useful Improvements in Carriages, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to an interchangeable carriage and sleigh; and the novelty consists in the construction, arrangement, and adaptation of parts, as will be more fully hereinafter set forth, and specifically pointed out in the claims.

The invention has for its essential object to produce such a formation and arrangement of body-springs and concomitant parts of a carriage as shall not only be efficient in service and simple and cheap of manufacture, but which shall be readily susceptible of disengagement from the ordinary running-gear, and the springs be adapted to serve as sleigh-runners, whereby the device is readily and quickly interchangeable; and to this end the invention consists, essentially, in the mechanisms fully illustrated in the accompanying drawings, which form a part of this specification, and in which—

Figure 1 represents a perspective view of the device, showing a child's carriage on runners; and Fig. 2 a similar view of the device on wheels. Fig. 3 is a perspective view of the device with carriage-body and running-gear removed—that is to say, of the spring and its supports and braces.

Referring to the drawings, in which similar letters of reference indicate like parts in all the figures, A indicates a double C-spring, made of a single piece of spring metal, having a straight or horizontal portion,  $a$ , and curved portions  $a'$  and  $a''$ , the latter being the rear spring or curve, which is bent upward and forward and downward until its end is secured to a bar, B, or the horizontal portions  $a$  of the spring, a little forward of its center, as at  $b$ . The upper part of the spring  $a''$  furnishes a bearing for the body-connection C. The forward spring,  $a'$ , is formed by bending the spring-piece A upward and backward, the free end being secured to the body-bottom, as at C'.

When the device is used as a carriage, and the running-gear in service, the horizontal portions  $a$  of the springs and the bars B are

clipped or otherwise properly secured to the forward and rear axles,  $x$  and  $x'$ , respectively, and when so used the said bars B serve as a reach or brace between the axles  $x$  and  $x'$ . The bars B serve the double functions of serving as reaches or strengthening-frames to the axles when the running-gear is in use, and also as runners for the device when used as a sleigh, the spring serving as the runner-shoe. I attach importance to this part of the invention. The springs in this class of devices are necessarily so light that they could not serve as runners without support, and the frame of the running-gear also needs support. By these bars B, I supply both supporting means in both alternatives.

To keep the body and springs in their relative positions, I provide a cross-brace, D, each end of which is secured to the bars B, or the horizontal portions  $a$ , as the case may be, and the middle portion to the bottom of the body. This brace, however, may be made in two pieces, one end of each being secured to the body-bottom, and the other to the bars or the runners.

It will be observed that as a child's sleigh the device may be impelled in either direction by the handle E of the body F, and that it forms a very convenient and useful sleigh-carriage.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. In an interchangeable carriage and sleigh, the springs A and supporting-bars B, adapted to serve with the body F and running-gear, or to serve as sleigh-runners, substantially as and for the purposes set forth.

2. In combination with the running-gear and body of a carriage, the spring A, bent to form C-springs  $a'$  and  $a''$ , and having a portion serve as a brace, and a supporting-bar B, as set forth.

3. In an interchangeable carriage and sleigh, the combination, with the body F and running-gear, of the springs A, bent as shown, the bars B, and the cross-braces D, all arranged and adapted to serve substantially as and for the purposes herein set forth.

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

CLARENCE S. STROWBRIDGE.

Witnesses:

JOHN W. STROWBRIDGE,  
R. H. DUELL.