

(No Model.)

F. E. SOUTHARD.
HAND SLED.

No. 557,346.

Patented Mar. 31, 1896.

Fig. 3.

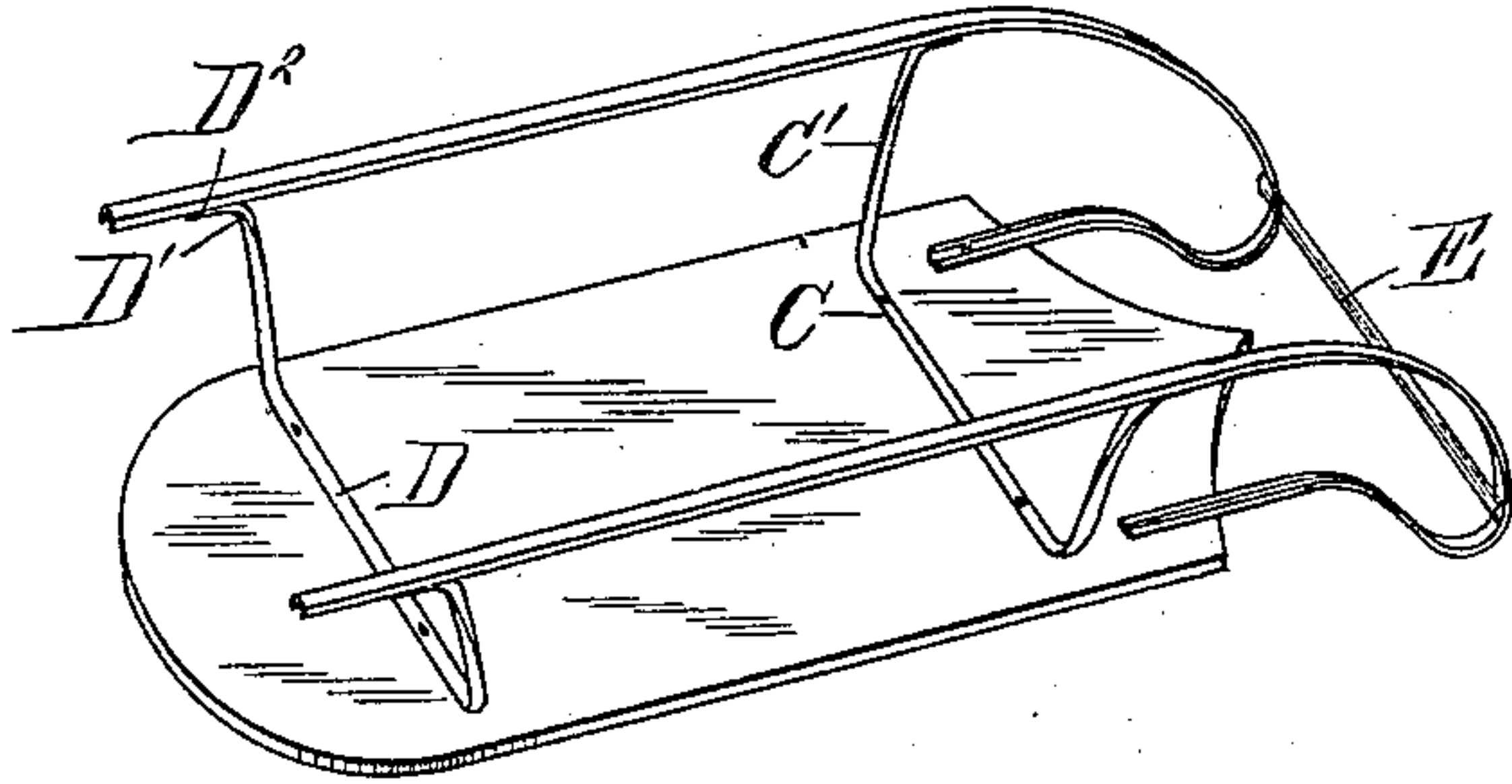


Fig. 4.

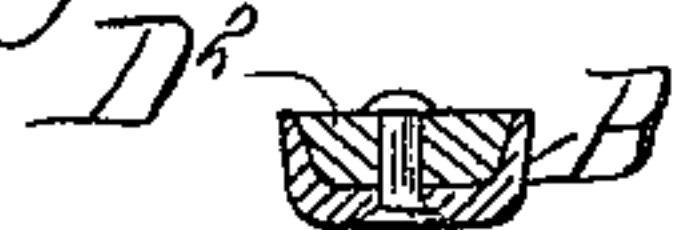


Fig. 5.



Fig. 1.

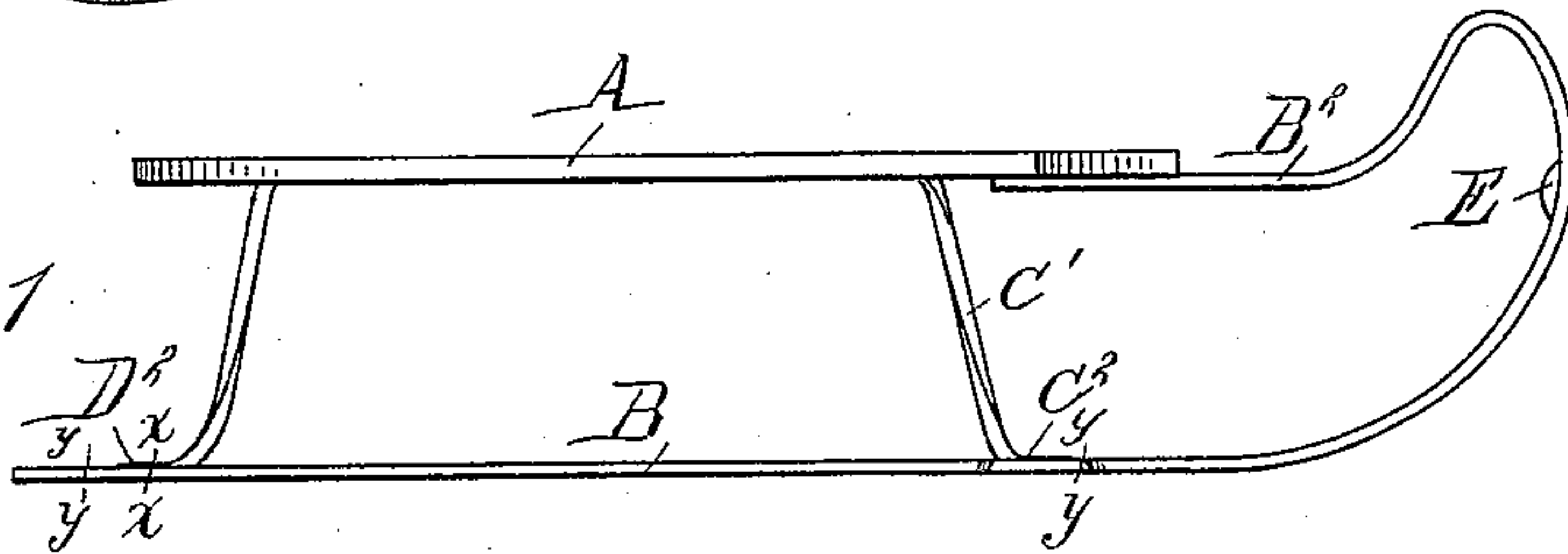
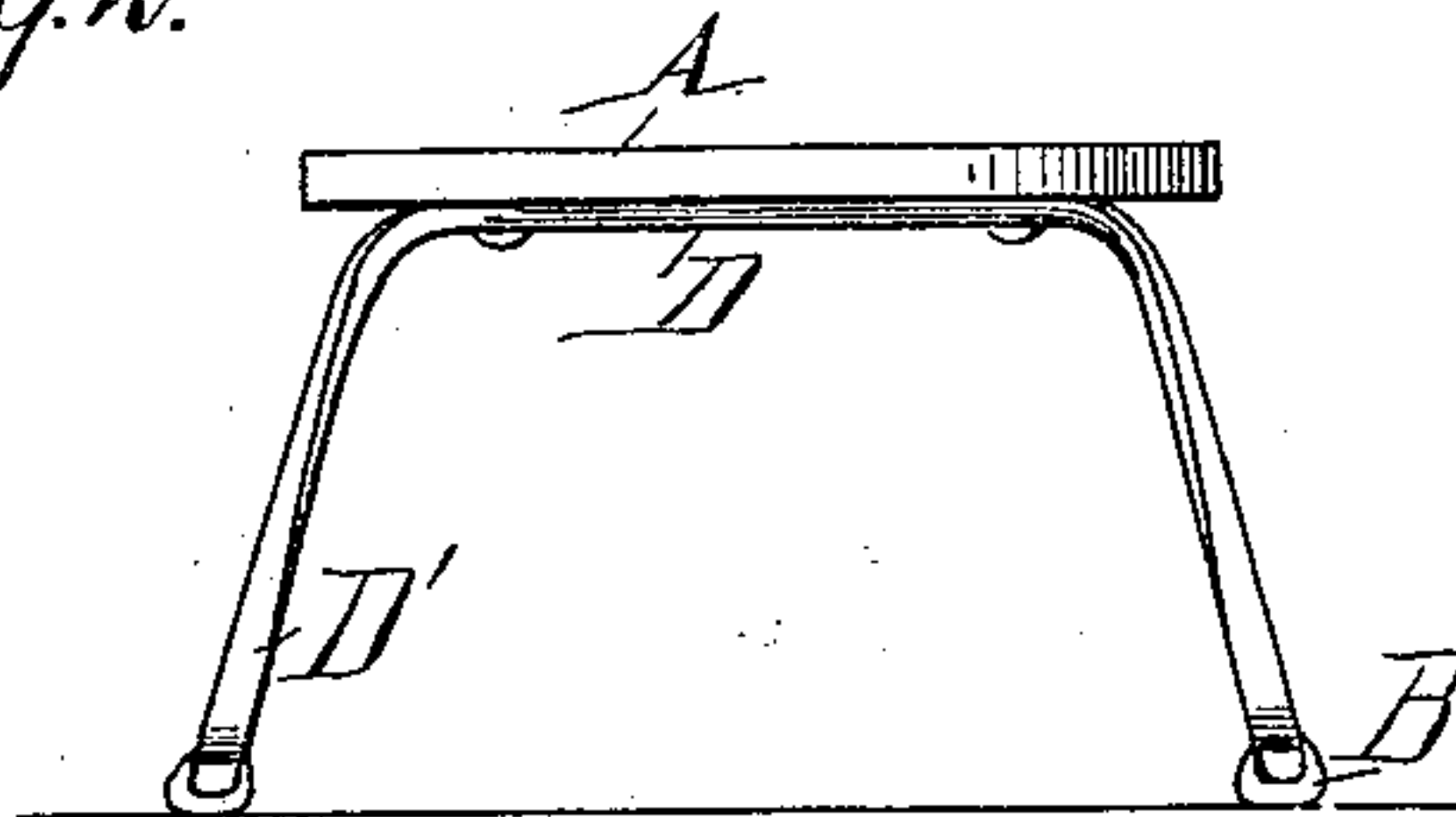


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

FRANK E. SOUTHARD, OF AUBURNDALE, OHIO.

HAND-SLED.

SPECIFICATION forming part of Letters Patent No. 557,346, dated March 31, 1896.

Application filed May 23, 1895. Serial No. 550,335. (No model.)

To all whom it may concern:

Be it known that I, FRANK E. SOUTHARD, a citizen of the United States, residing at Auburndale, in the county of Lucas and State of Ohio, have invented certain new and useful Improvements in Hand-Sleds, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention is intended as a useful toy for children; and the object is to construct it in such a simple manner that it can be cheaply manufactured, while at the same time it is light and strong.

To this end the invention consists in the arrangement and combination of parts, all as more fully hereinafter described, and shown in the drawings, in which—

Figure 1 is a side elevation; Fig. 2, a rear elevation; Fig. 3, a perspective view of the sled bottom side up; Fig. 4, a cross-section on line *x x*, Fig. 1; and Fig. 5 is a cross-section on line *y y* of Fig. 1.

A is the sled-bottom, preferably made of wood. B are the runners, each made of one piece of channel-iron, with its front end bent upwardly to form a curved guard B' at its forward end, extending upward above the sled-bottom, and terminating in a rearwardly-extending brace B², which projects under the front end of the sled-bottom and is secured thereto by suitable rivets.

C and D are transverse bottom-supports made of bar-iron substantially of a shape in cross-section to conform to the channel of the runners. These transverse bottom-supports are secured flatwise to the under side of the sled-bottom and are integrally formed with knees.

The knees C' of the front transverse support are provided at their lower ends with

feet C², and the knees themselves are twisted so as to enter and conceal the feet C² in the channel of the runner.

The knees D' of the rear transverse supports are provided with similar feet D², extending rearwardly, and the knees themselves are twisted in the proper manner to conceal these feet in the channel of the runners, and by means of suitable rivets the runners are secured to the feet of the knees. The knees are preferably made to incline outwardly and toward the front and rear, respectively, and to prevent them from spreading and working in the rivets the sides of the channel-bar are compressed to form stops at the end of the feet, as shown at *y y* in Fig. 2, and a cross-brace E is preferably secured between the front ends of the runners. By this manner of constructing the sled a strong sled of graceful appearance is obtained at a minimum cost.

What I claim as my invention is—

The combination of a sled-bottom, two runners, each composed of a single piece of channel-iron formed with upwardly-extending guards in front terminating in rearwardly-extending braces, and transverse bottom-supports formed of bar-iron adapted to fit the channels of the runners, said bottom-supports being formed with knees and feet thereon integral therewith and adapted to enter the channels of the runner and secured therein against displacement by compressing the sides of the channel-bar of the runner, substantially as described.

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

FRANK E. SOUTHARD.

Witnesses:

MAC. PHILLIPS,
W. H. MITCHELL.