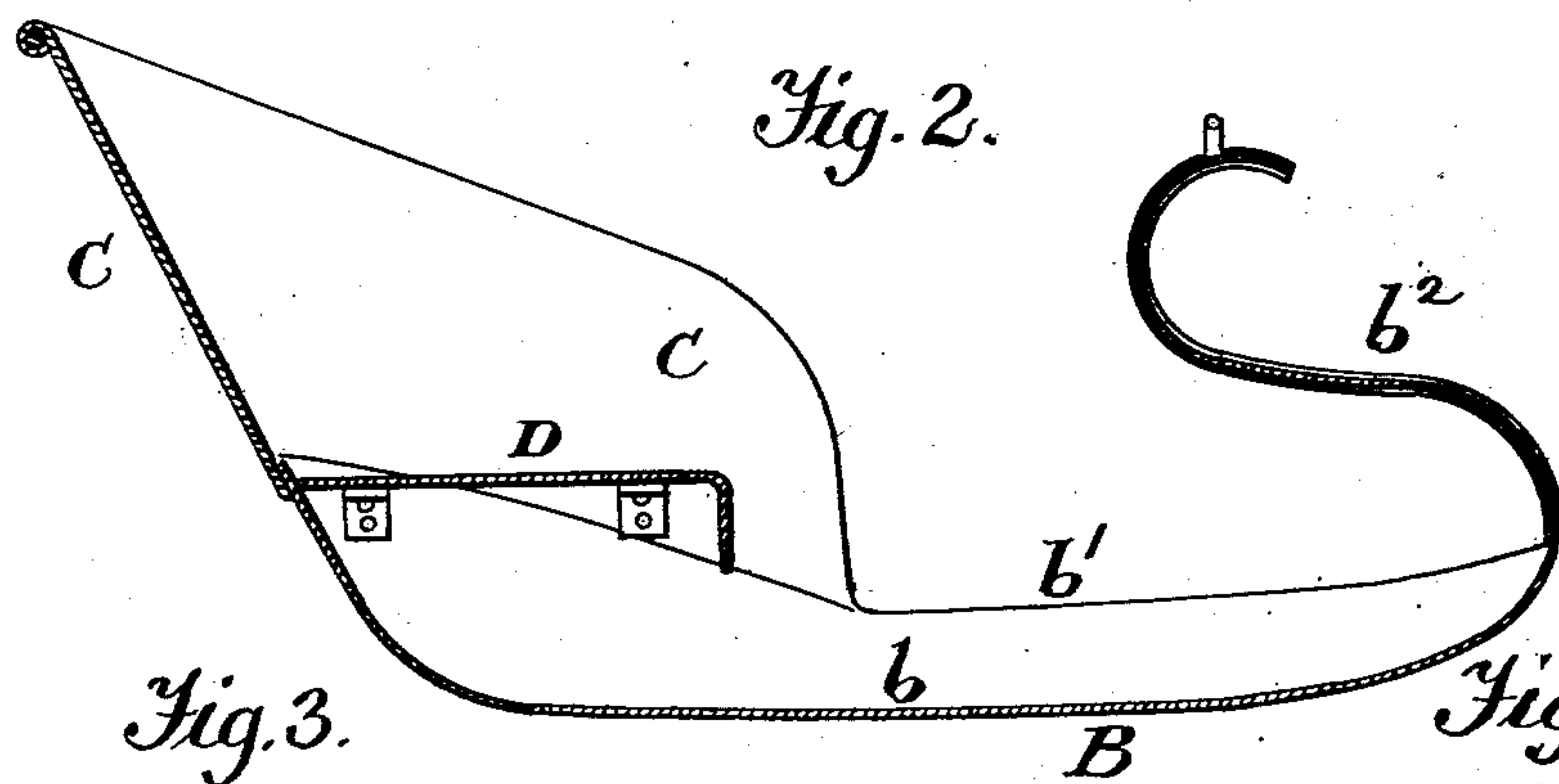
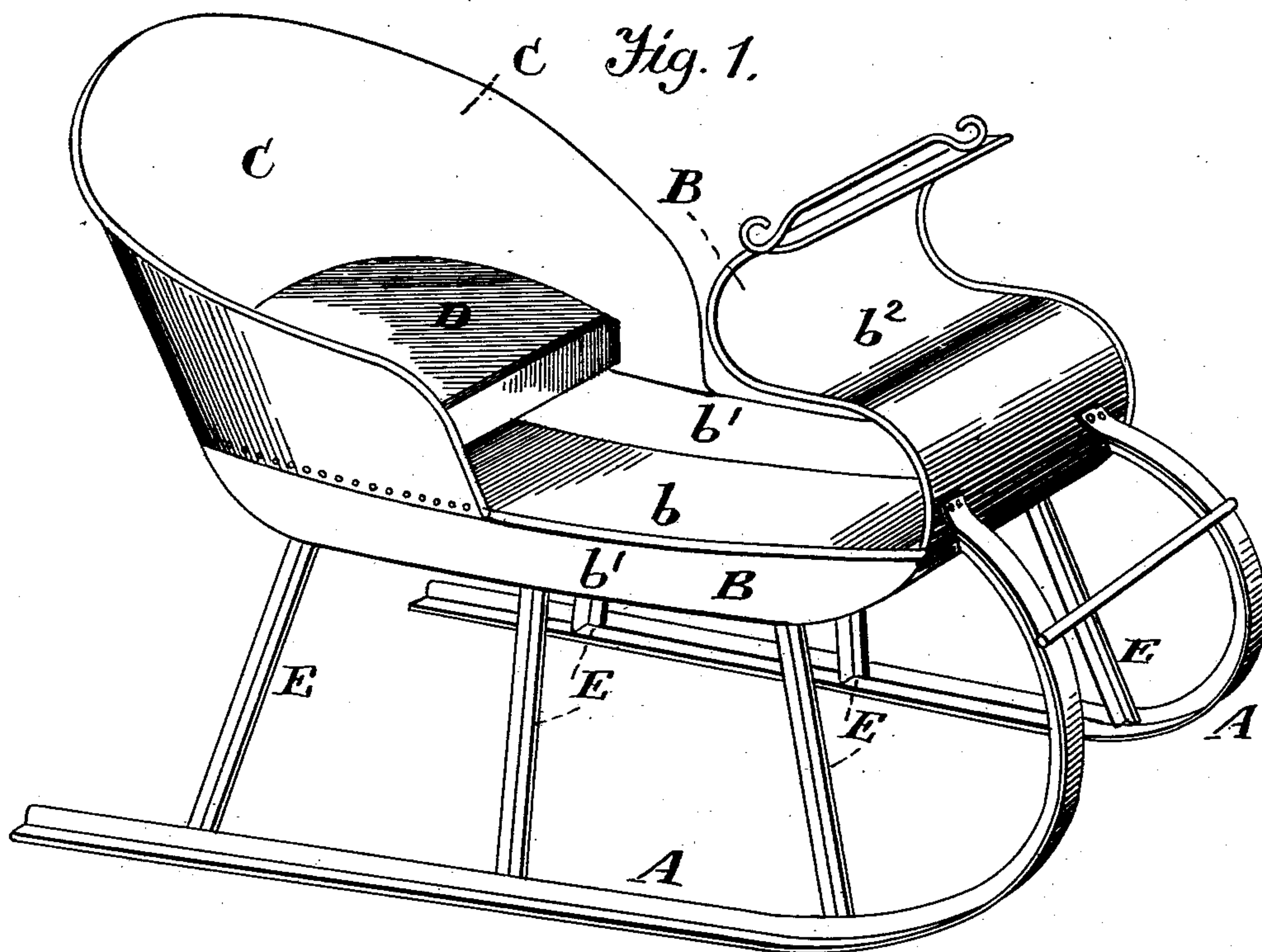


(No Model.)

C. ZIMMERMAN.
SLEIGH.

No. 568,935.

Patented Oct. 6, 1896.



Witnesses.
A. Ruppert,
H. A. Daniels

Inventor.
Casper Zimmerman
Per
Thomas P. Simpson
att'y

UNITED STATES PATENT OFFICE.

CASPER ZIMMERMAN, OF BIG STONE CITY, SOUTH DAKOTA.

SLEIGH.

SPECIFICATION forming part of Letters Patent No. 568,935, dated October 6, 1896.

Application filed December 6, 1895. Serial No. 571,304. (No model.)

To all whom it may concern:

Be it known that I, CASPER ZIMMERMAN, a citizen of the United States, residing at Big Stone City, in the county of Grant and State of South Dakota, have invented certain new and useful Improvements in Sleighs; and I do 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 appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The invention relates to sleighs, sleds, or cutters for traveling upon snow or ice; and it consists in constructing a sleigh entirely of sheet metal, the runners being made of T-iron, the three supports of the same, and the bottom, back, sides, and seat of simple sheets bent into the desired shape, thus forming a very light, cheap, and durable vehicle for the purpose intended.

Figure 1 of the drawings is a perspective view of the sleigh with all the parts together. Figs. 2, 3, 4, and 5 are detail views of the parts.

In the drawings, A A represent the two runners, which preferably converge from rear to the front, where they are curved up and around, so as to be conveniently riveted to the front of the sheet-iron piece B, which forms the bottom *b*, sides *b'*, and dash *b²*.

E are three body-supports of T-iron.

C is the upwardly-flaring back of the sleigh, which is lapped on and riveted to the sides *b' b'*, the continuous upper edge of sides and back being turned over on a reinforcing-wire to hide the raw edge and form a desirable finish.

D is a seat which is preferably (although not necessarily) made also of sheet metal and secured on suitable lugs or supports on the interior of the back, the front being bent over at an angle to the horizontal part thereof. The metal is protected from the weather by paint, galvanizing, or enamel, as may be preferred.

The T-iron is formed by taking narrow sheets, folding on a longitudinal median line together, and then turning out about one-fourth of the width outwardly to form flanges.

All the parts of the sleigh are thus made of sheets and riveted together, so as to make a very light, inexpensive, and durable sleigh.

I am aware that a sheet-metal sleigh is shown and described in United States Patent No. 282,811, but of a very different construction from mine; also that a wooden sleigh is shown in United States Patent No. 433,285, where the dash and bottom of the sleigh are made in one piece; but

What I claim as new is—

A sleigh made entirely of sheet metal, consisting of the T-runners A A curled up in front, the bottom, sides, and dash-piece B, the back C lapped about and riveted to the sides and the seat D, located in the flare of back and bent over in front, all as shown and described.

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

CASPER ZIMMERMAN.

Witnesses:

A. G. GILBERT,
ALFRED HOIPKEMEIER.