

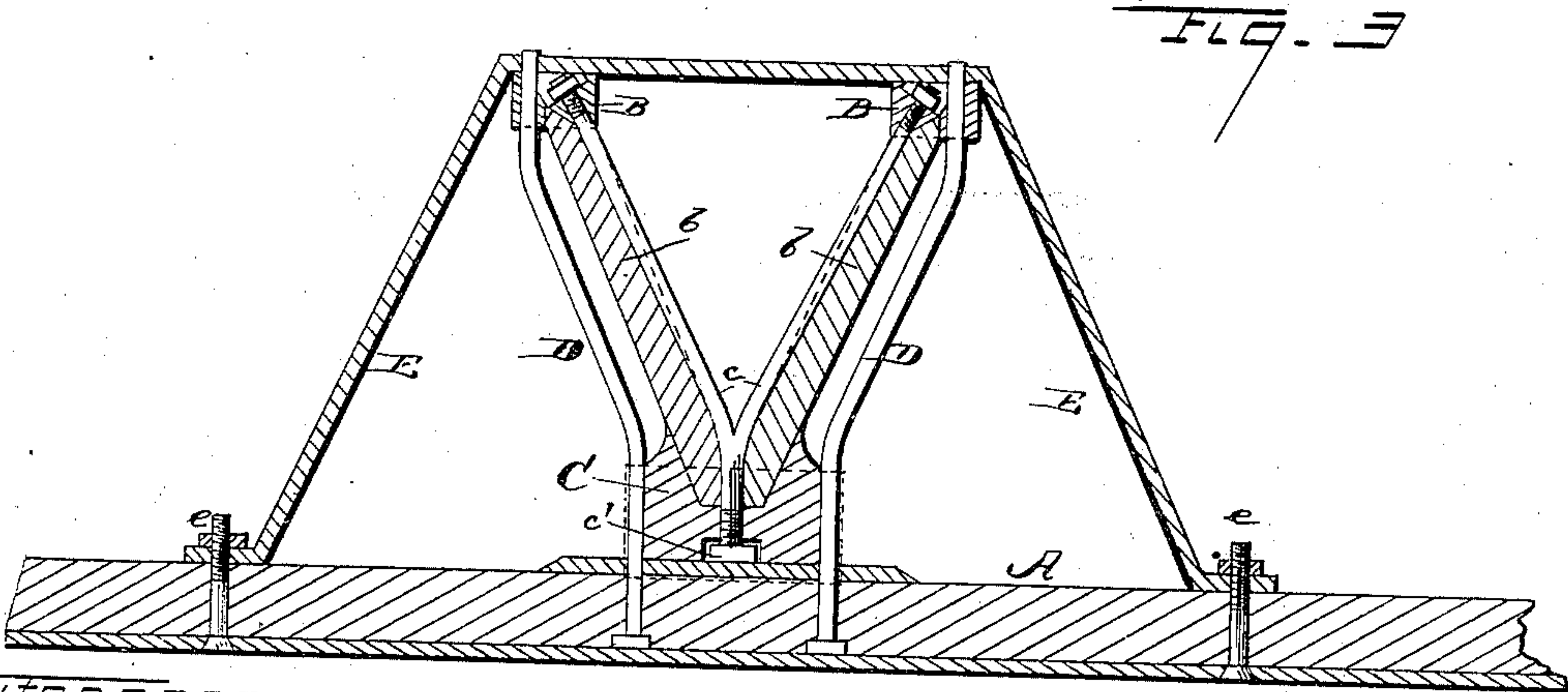
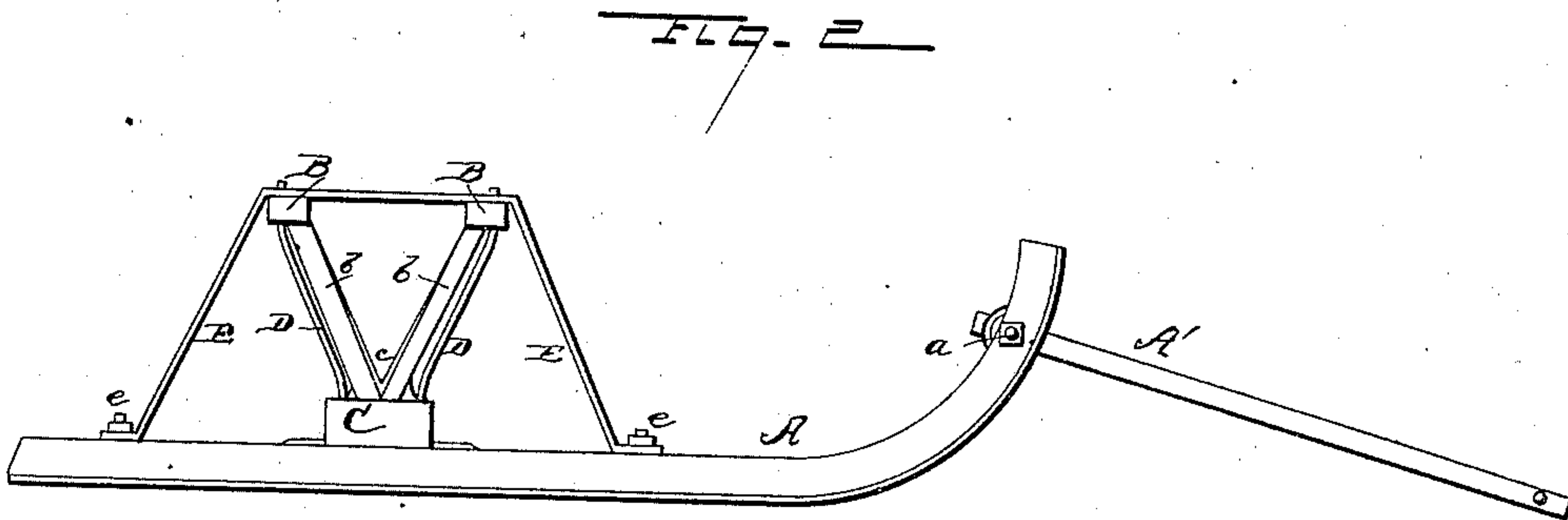
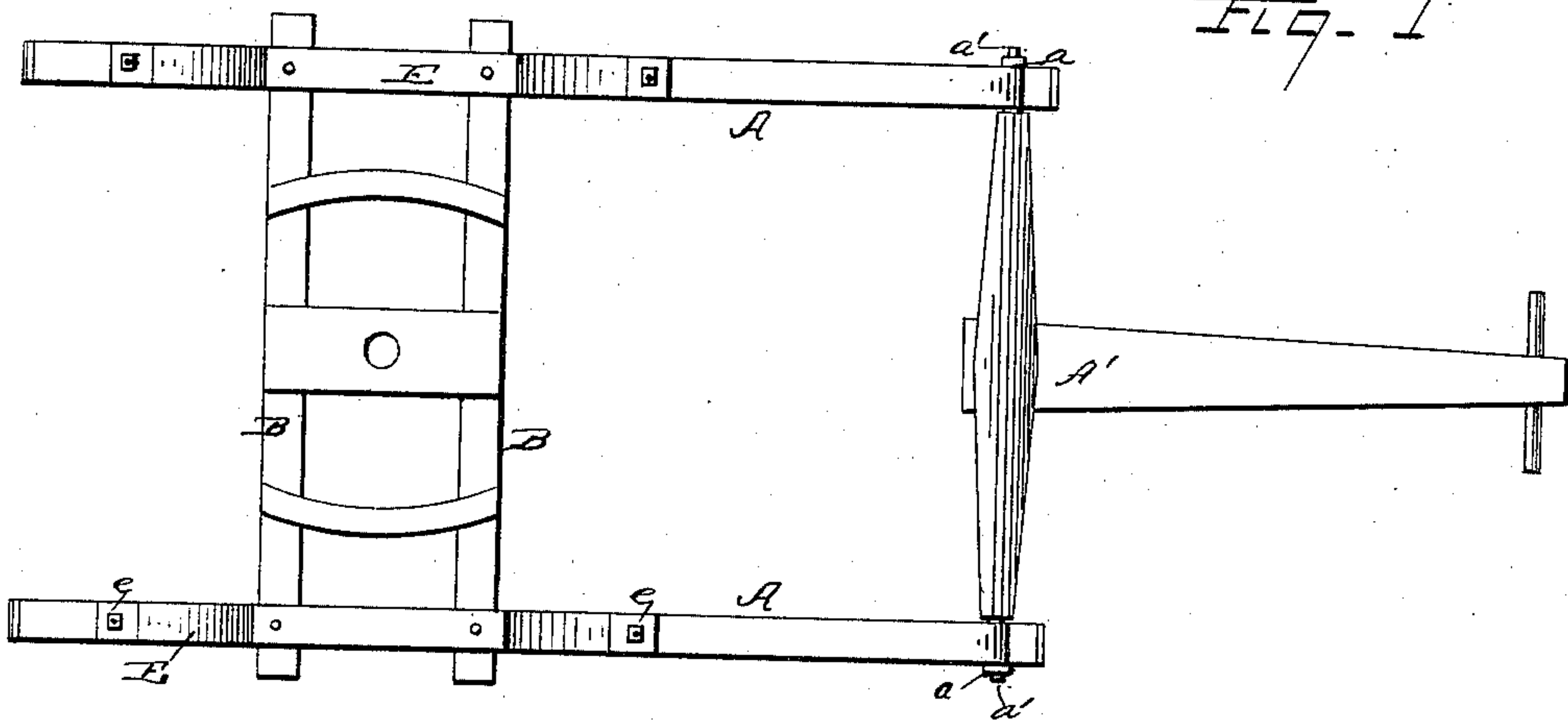
(No Model.)

S. M. CRITES.

BOB SLEIGH.

No. 310,881.

Patented Jan. 20, 1885.



WITNESSES

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STANLEY M. CRITES, OF PIPESTONE, MICHIGAN.

BOB-SLEIGH.

SPECIFICATION forming part of Letters Patent No. 310,881, dated January 20, 1885.

Application filed April 25, 1884. (No model.)

To all whom it may concern:

Be it known that I, STANLEY M. CRITES, a citizen of the United States, residing at Pipestone, in the county of Berrien and State of Michigan, have invented certain new and useful Improvements in Bob-Sleighs, of which the following is a specification, to wit:

This invention relates to an improvement in bob-sleighs; and it consists in certain peculiarities of the construction and arrangement of the same, substantially as will be hereinafter more fully set forth and claimed.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and arrangement, referring to the accompanying drawings, in which—

Figure 1 is a plan view of my invention; Fig. 2, a side elevation of the same, and Fig. 3 a sectional view of the knee and the mode of securing it to the runner.

A represents the runners of a bob-sleigh, of any size or shape found most desirable; and B B represent the cross-bars, which are usually in one piece, but in this case consist of two bars extending transversely across the sleigh and supported upon inclined knees *b b*, which have their lower ends brought together and socketed in a casting, C, which rests upon the runner, and is held securely in place by a Y-shaped brace, *c*, the upper ends of which are secured in the cross-beams B B, and, passing down on the inner sides of the knees, its lower end passes through the socket or casting C, and is secured by a nut, *c'*. Two other braces, D D, are passed up through the runner A, through grooves in the ends of the casting C, and thence along the outer sides of the knees, and their upper ends pass loosely through the beams B. A band or brace, E, is also passed over the beams B B and its ends bolted to the runners, as at *e e*, to prevent the device from jumping out of place. The forward ends of the runners A are secured by nuts *a a* to the

journals *a'* of the tongue or reach A'. It will be seen that this mode of making the sleigh gives a very strong and durable article, cheaply made, and adapted to be quickly taken apart and put together for shipment, while the runners are not secured rigidly together, but are capable of a twisting movement independent of each other, to accommodate themselves to the inequalities of the ground, and thereby give less strain upon the sleigh, while enabling the team to pull it much easier when heavily loaded.

The use of two beams B instead of one is especially valuable in hauling logs, as a skid can be rested upon them without interfering with the bolster, and should the king-bolt receive an unusual strain or blow it is not liable to split the beam and render the sleigh useless.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a bob-sleigh, the combination, with the runners A, of the two cross-beams B, having their knees supported from a single point upon the runners, substantially as and for the purpose set forth.

2. The cross-beams B B, having their knees *b b* brought together at their lower ends, in combination with the socket or casting C and the Y-shaped brace *c*, substantially as and for the purpose set forth.

3. The runners A A and tongue or reach A', secured by nuts *a*, in combination with the cross-beams B, knees *b*, brace *c*, socket C, and braces D and E, all constructed and arranged to operate substantially as and for the purpose set forth.

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

STANLEY M. CRITES.

Witnesses:

W. C. McARTHUR,
CHAS. KRESSMANN.