

(No Model.)

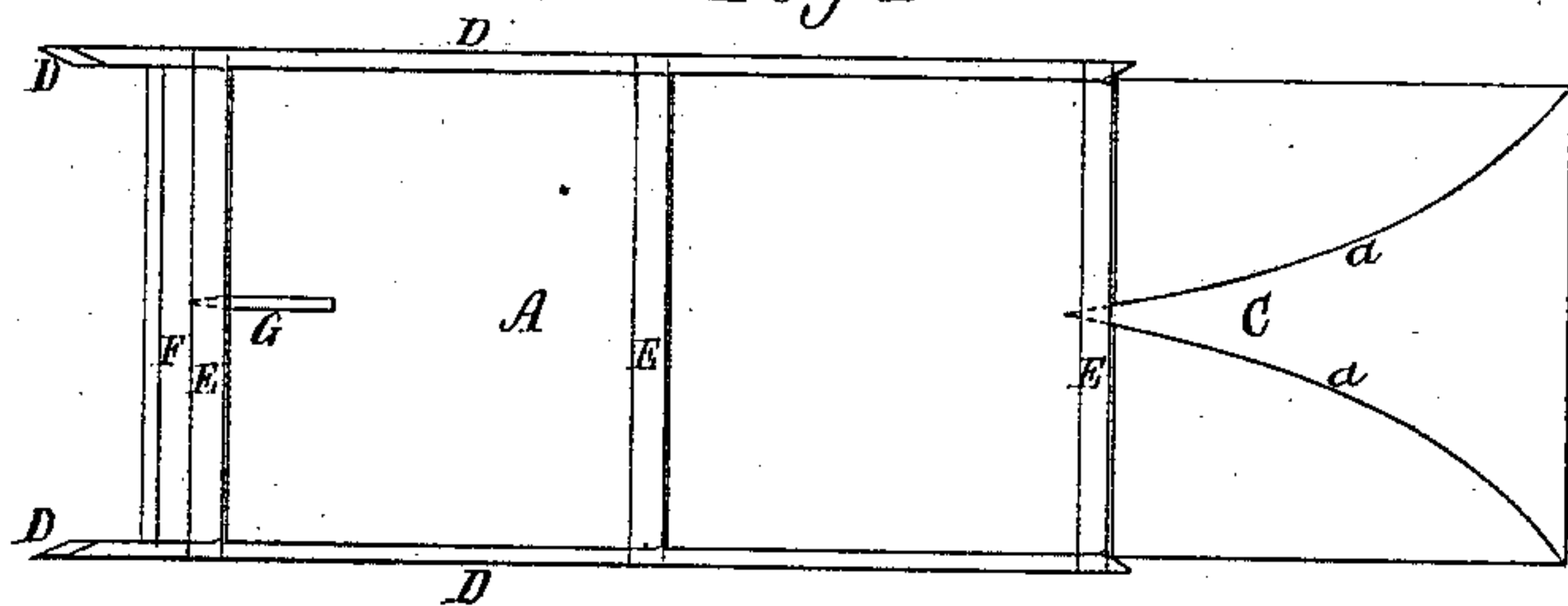
S. H. BUSWELL.

SNOW PLOW.

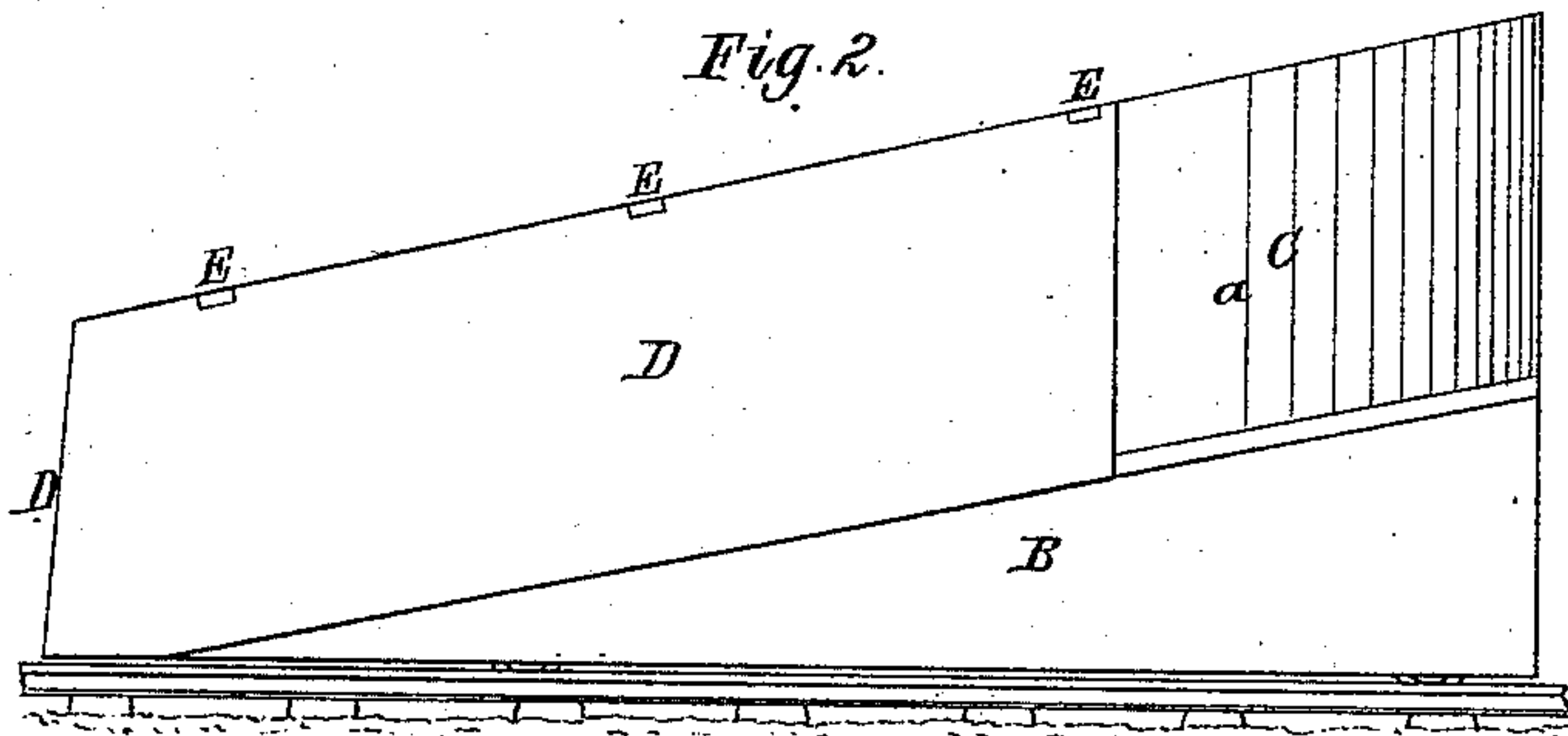
No. 345,618.

Patented July 13, 1886.

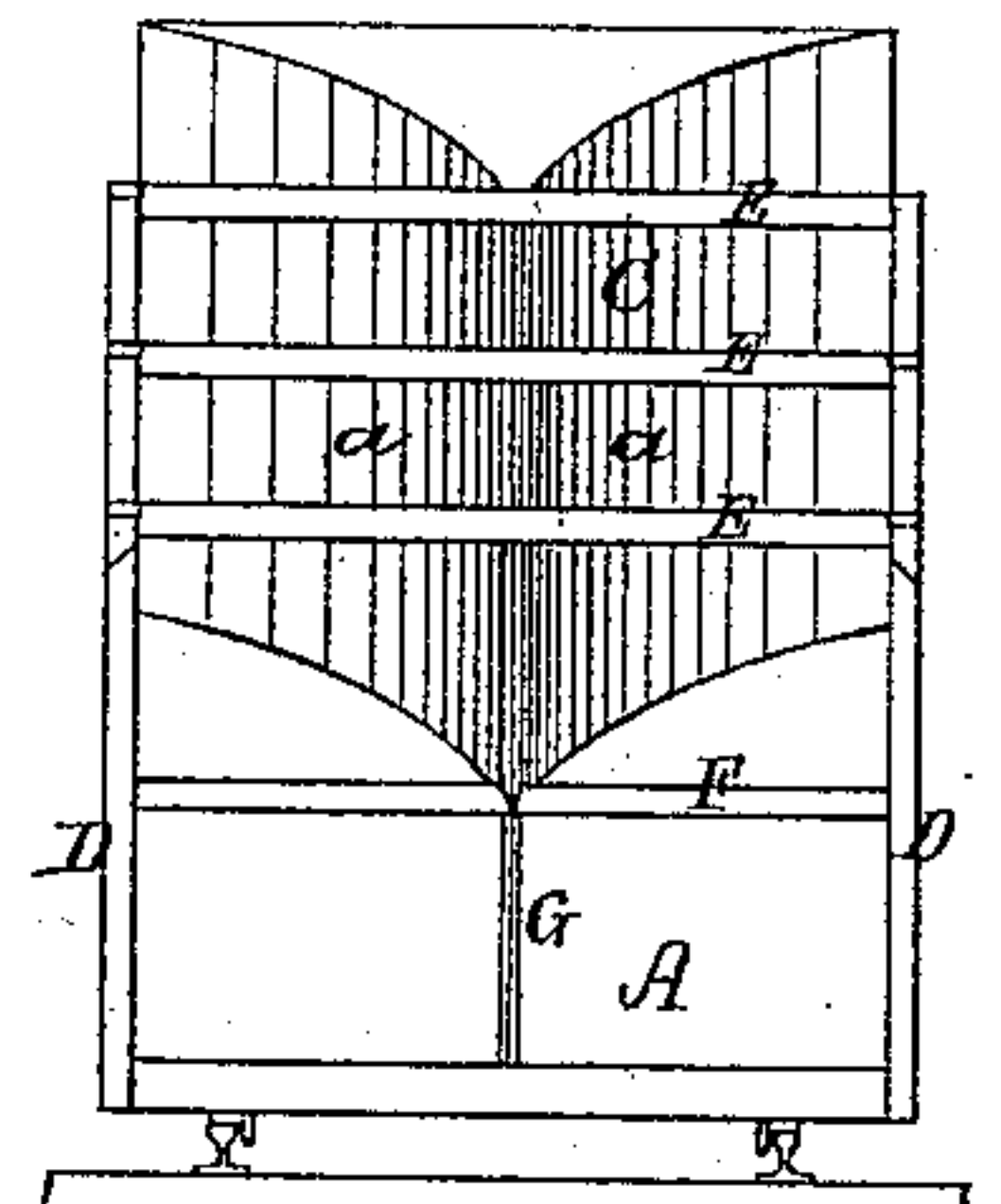
*Fig. 1.*



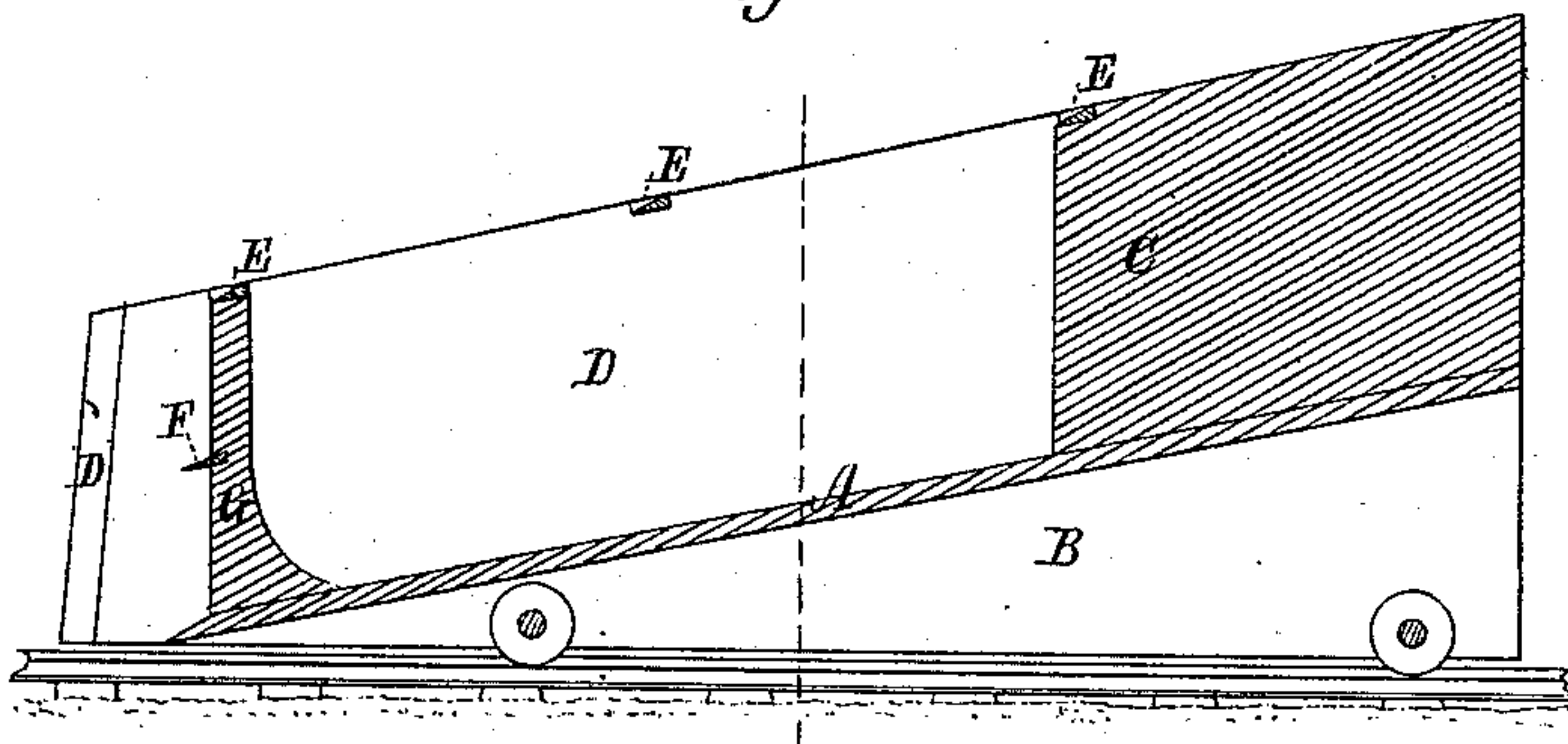
*Fig. 2.*



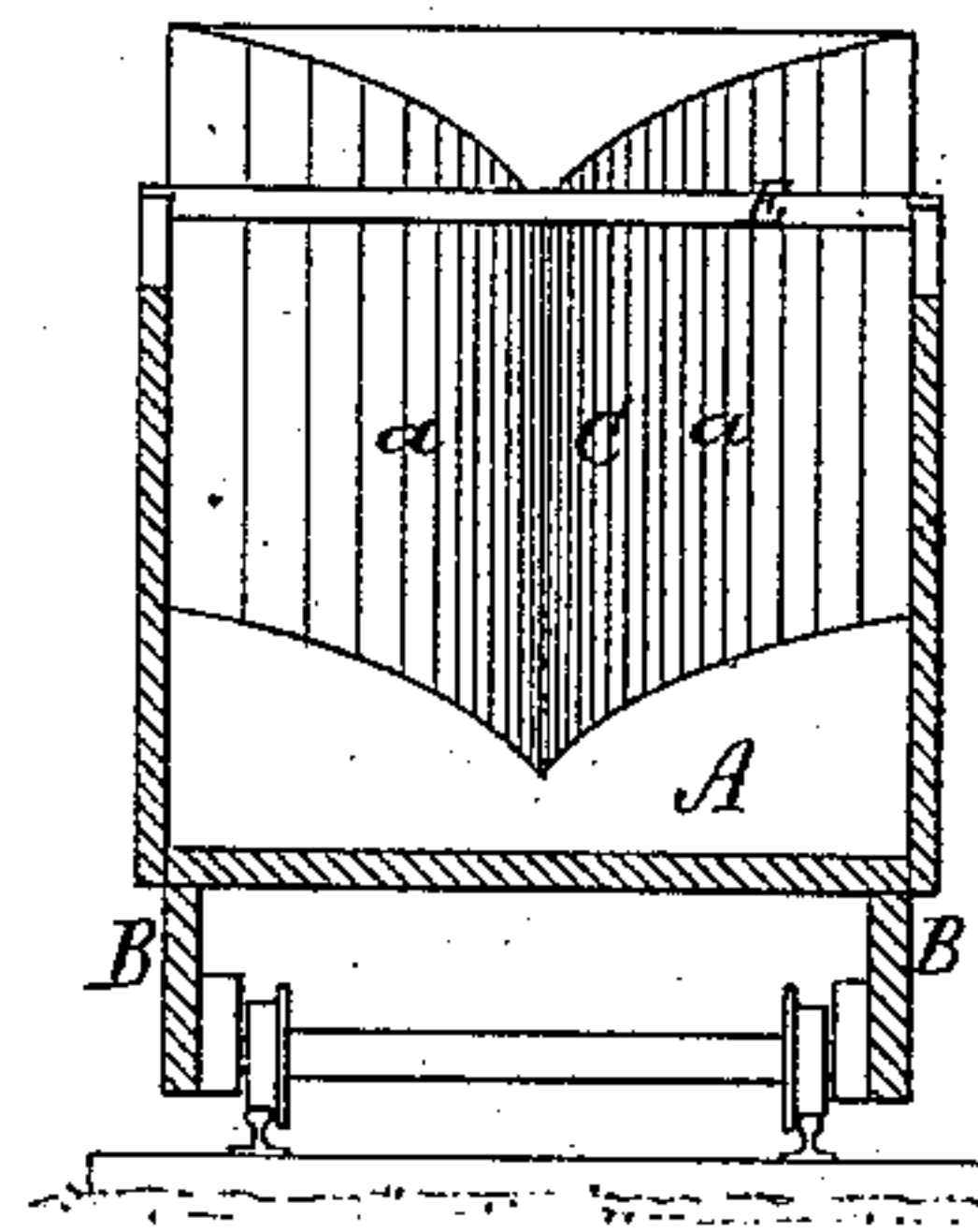
*Fig. 3.*



*Fig. 5.*



*Fig. 4.*



Witnesses

*S. N. Piper*

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# UNITED STATES PATENT OFFICE.

SIMEON HILTON BUSWELL, OF MANCHESTER, NEW HAMPSHIRE.

## SNOW-PLOW.

SPECIFICATION forming part of Letters Patent No. 345,618, dated July 13, 1886.

Application filed December 29, 1885. Serial No. 186,984. (No model.)

*To all whom it may concern:*

Be it known that I, SIMEON HILTON BUSWELL, of Manchester, in the county of Hillsborough, of the State of New Hampshire, have  
5 invented a new and useful Improvement in Snow-Plows for Railways; and I do hereby declare the same to be described in the following specification, and represented in the accompanying drawings, of which—

10 Figure 1 is a top view, Fig. 2 a side elevation, Fig. 3 a front end view, Fig. 4 a transverse and median section, and Fig. 5 a longitudinal and median section, of a snow-plow provided with my invention, the nature of  
15 which is defined in the claim hereinafter presented.

In such drawings, A denotes the bottom or base of the plow, it being inclined, as represented, and sharp at its front edge. It is supported on right-angled triangular side boards, B B, extending lengthwise of it at its opposite edges. At the rear part of the base A there is a deflector, C, which extends upward from the base and has curved sides *a* for deflecting the snow laterally off the base while ascending it. Furthermore there extends upward from the base, at its opposite longer edges, two vertical blades or cutters, D D, each of which projects a short distance beyond or in advance of the front or cutting end of the base. Each cutter D has a sharp front end, which, as it rises, inclines backward, as represented. The two side blades, D, are joined by a series of cross-blades, E, going  
35 from one to the other of them at their upper edges, the uppermost one of such bars being fastened at its middle to the nose of the deflector. Midway between the lowermost of the said bars and the inclined base is a blade, F, which is parallel to the base, and there extends up from such base, across the middle of such bar F and to the lowermost of the blades E, a cutter-bar, G. The front edges of the said bars E F and cutter G, I usually make sharp,  
45 to enable them to readily enter the snow when the plow is being driven forward against a bank of such snow. The plow thus constructed, like other snow-plows, is to be mounted on

wheels to support it and to enable it to travel on the rails of a railway-track.

On the plow being driven forward against  
50 a snow-bank on a railway-track the side cutters will enter the bank before it is reached by the nose of the base, and in so doing will operate to preserve the plow on the rails very  
55 much better than would be the case were the side cutters not to extend forward of the said nose. The inclined cutting-edges of the side cutters will act to keep the plow from being lifted on its first entrance into the bank, and  
60 as the plow may be forced therein the mass of snow entering it will be divided both vertically and horizontally by the cross-blades, at the front end of the plow, and such mass in such condition will pass up the inclined base  
65 and in the space between the side cutters, and meeting the nose of the deflector will be separated thereby and thrown off laterally in opposite directions in two streams. The upright cutter G and horizontal cutter or blade F, near  
70 the nose of the base, by dividing the mass of snow enables it to readily separate into four streams as it meets the nose of the deflector, and thereby relieves the most of much resistance that would ensue to it by the deflector  
75 were such mass in a solid or undivided state to be forced against it.

I do not claim a snow-plow made as represented in either of the United States Patents Nos. 151,916, 95,449, 178,613, as in neither of  
80 such is the snow by knives divided into four streams on entering the plow.

I claim—

The snow-plow substantially as described, consisting of the inclined base sharp at its  
85 front end, the triangular supports of such base, the deflector, the side blades sharp at their front ends and projecting up from the base and beyond it, as described, the cross-connection blades E E E and F, and the vertical knife or  
90 intermediate bar, all arranged essentially in manner as set forth.

SIMEON HILTON BUSWELL.

Witnesses:

E. M. TOPLIFF,

D. F. O'CONNOR.