

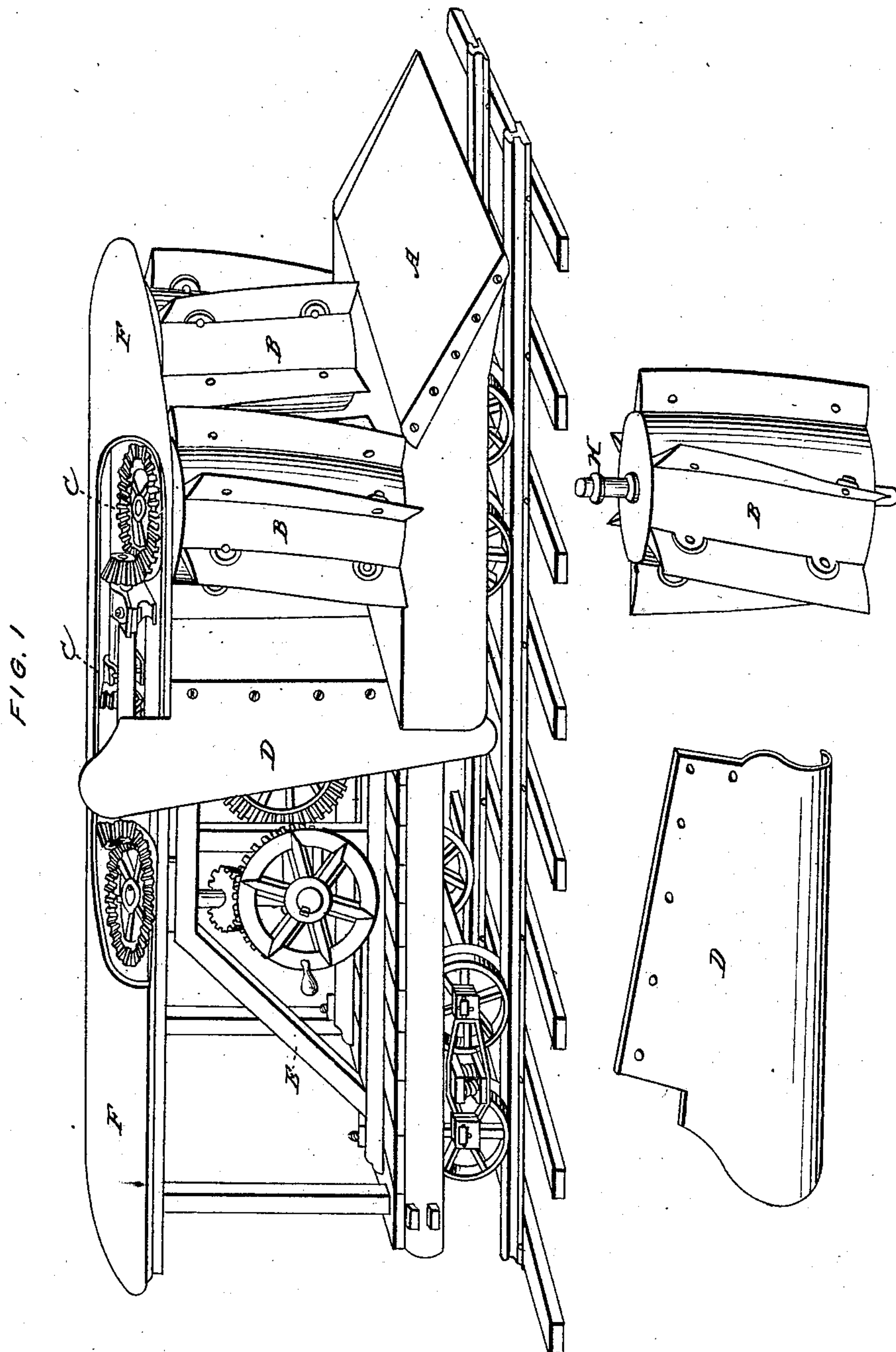
T. C. CHURCHMAN.

2 Sheets—Sheet 1.

Snow Plow.

No. 104,113.

Patented June 14, 1870.



WITNESSES:

Samuel Cross
S. S. Fortson

INVENTOR:

T. C. Churchman

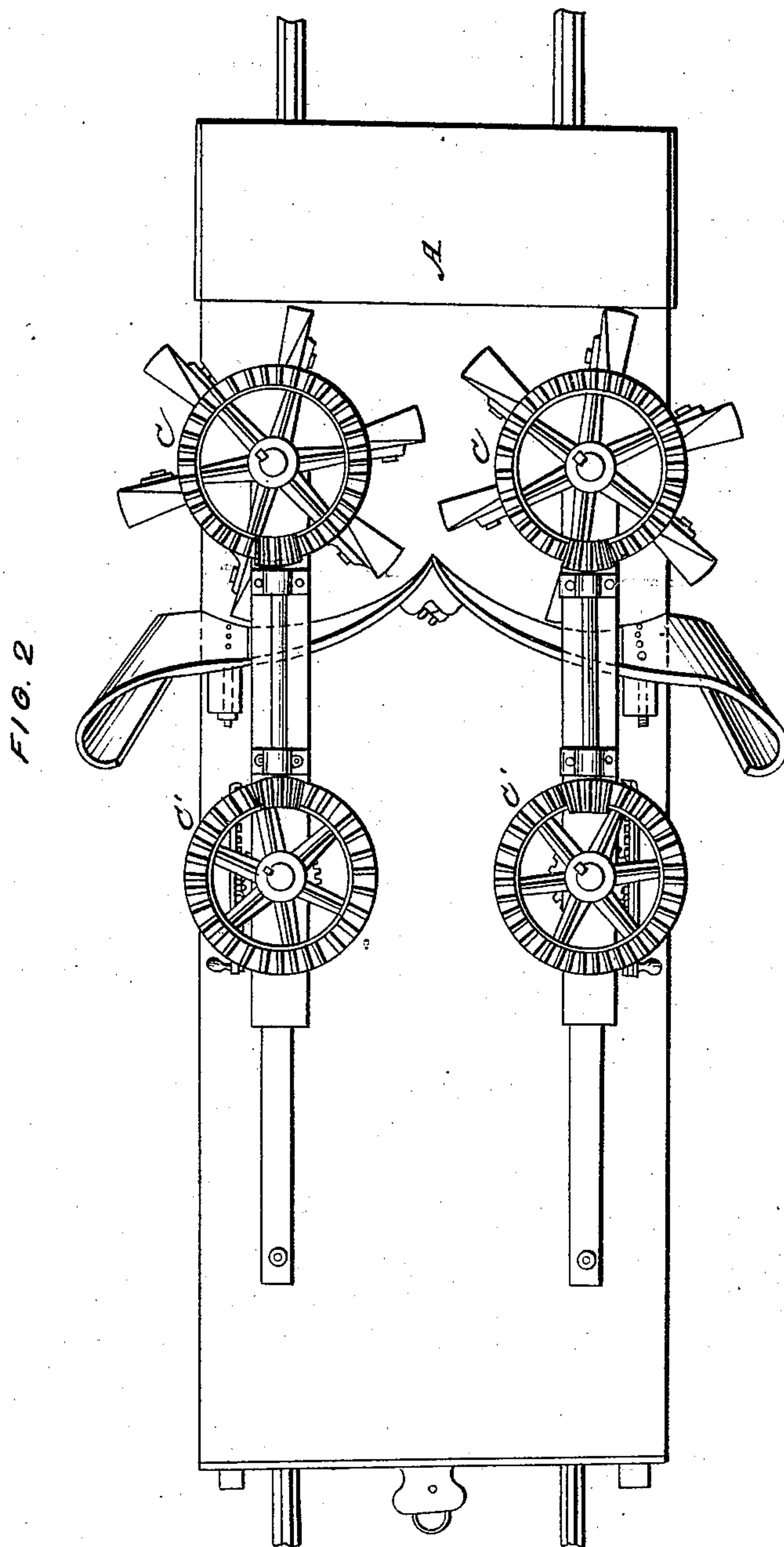
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United States Patent Office.

THOMAS C. CHURCHMAN, OF SACRAMENTO, CALIFORNIA.

Letters Patent No. 104,113, dated June 14, 1870.

IMPROVEMENT IN SNOW-FLOWS.

The Schedule referred to in these Letters Patent and making part of the same.

Be it known that I, THOMAS C. CHURCHMAN, of the city of Sacramento, in the county of Sacramento and State of California, have invented a new and useful Machine for the purpose of Clearing Railroad-Tracks of Snow, by means of an apron, revolving cylinders with flanges, side guards, and combined machinery for running the car and keeping the cylinders in motion, and I call said machine Monitor Snow-Plow. I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, which is hereby made a part of this specification, and in which—

Figure I is a perspective view of the entire machine, without the steam-engine, necessary to drive the car and the machine.

Figure II represents a plan view of the machine.

The nature of my invention consists in providing the front part of a railroad-truck with a flat apron and two perpendicular cylinders with flanges and the sides with fenders.

With the apron the snow is lifted from the track when the engine is in motion and carried to the cylinders, which, being also in motion by means of usual gearing with the engine, throw the snow to the side or sides of the road, from which it is pressed outward by the fenders on the sides.

To enable others skilled in the art to make and use my invention I will proceed to describe its construction and operation.

I construct my truck and steam-engine in any of the known forms, and construct thereon, with suitable materials, a flat apron or lifter, in front, represented by letter A, also a platform to receive and carry the machinery.

I construct and place in position securely on the

front part of the platform two cylinders with flanges as represented by the letter B.

These cylinders turn upon the vertical axes H, with the bevel-gear wheels C fixed upon the upper end of the axes H, by which, in connection with the machinery and engine necessary for driving power, is secured a rotary motion of the cylinders, whereby the snow is received and thrown upon them by the apron, and is also distributed and thrown to the sides.

I also construct and place in a permanent position on each side of the truck a fender made of suitable material and sufficiently strong to compress the snow after it is delivered from the cylinders. These fenders are represented by the letters D.

I place this machinery in a frame made of suitable materials and in the usual forms, and represented by letter E, all to be covered by a roof, F, and the whole to be used or driven by a steam-engine on the same truck.

The operation is as follows:

When the car is in motion, the snow is lifted on the apron and thrown upon the cylinders, which are also in motion, and, by means of the flanges, it is thrown outward on both or either sides, as may be desired.

The fenders D on the sides prevent its return to the car or truck, and, if necessary, these fenders or wings compress the snow.

What I claim as my invention is—

A snow-plow, consisting of the apron A, the vertical cylinders B, and the fenders D, the whole combined and operated in the manner set forth.

T. C. CHURCHMAN.

Witnesses:

SAMUEL CROSS,
S. N. NORTON.