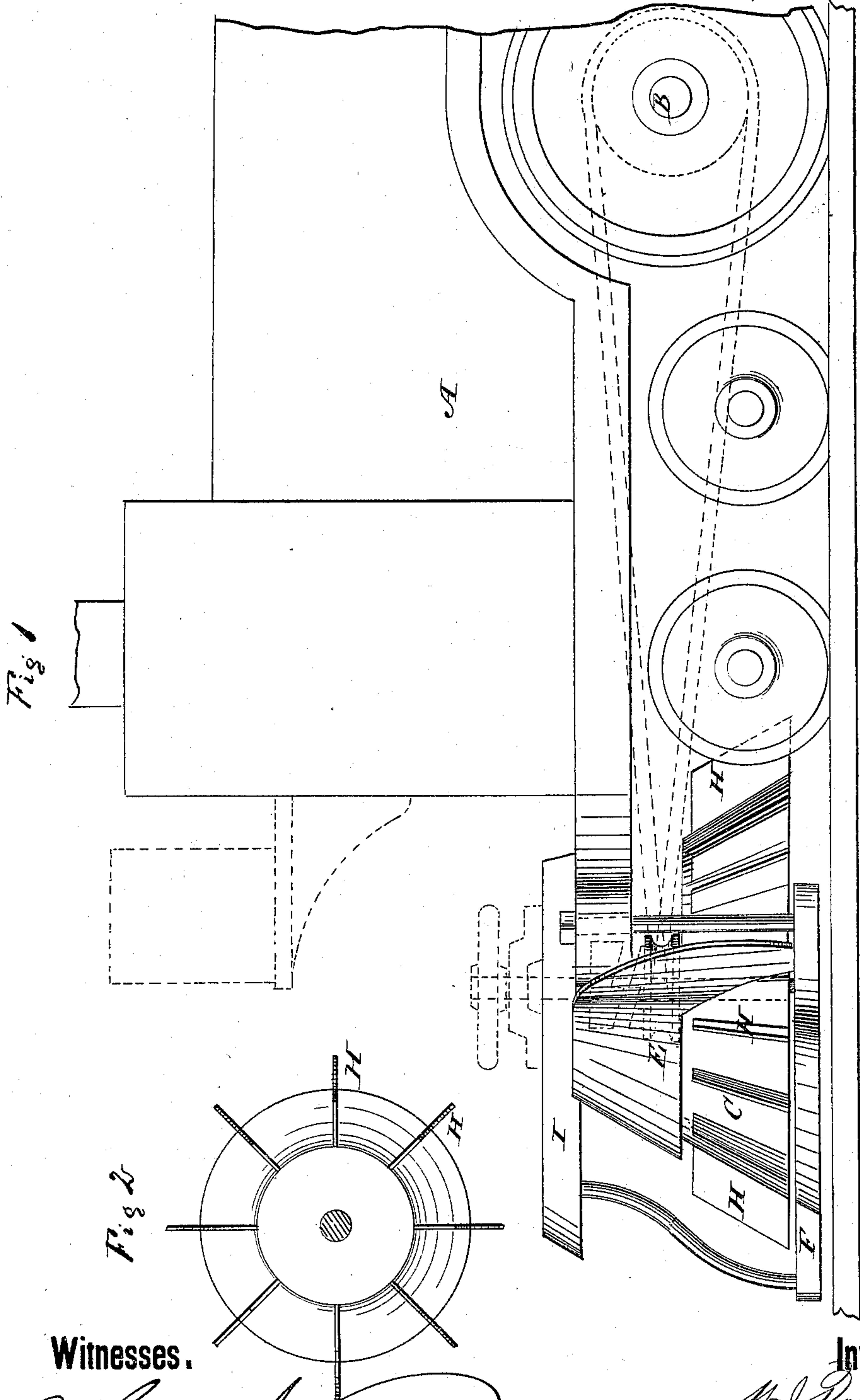


W. J. ROBERTS.
Snow-Plows.

No. 143,095.

Patented September 23, 1873.



Witnesses.

Chas. Nield
Bedquien

Inventor.

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UNITED STATES PATENT OFFICE.

WILLIAM J. ROBERTS, OF COLD SPRING, NEW YORK.

IMPROVEMENT IN SNOW-PLOWS.

Specification forming part of Letters Patent No. **143,095**, dated September 23, 1873; application filed May 31, 1873.

To all whom it may concern:

Be it known that I, WILLIAM J. ROBERTS, of Cold Spring, in the county of Putnam and State of New York, have invented a new and useful Improvement in Snow-Plows, of which the following is a specification:

The invention relates to the revolving cones used upon snow-plows; and consists in the improvement hereinafter described and pointed out in the claim.

In the accompanying drawing, Figure 1 is a side view of the snow-plow, shown as connected with a locomotive. Fig. 2 is a top view of the wheel detached.

Similar letters of reference indicate corresponding parts.

A represents the locomotive. B is the shaft or axle of one of the driving-wheels. C is the revolving bucket-wheel, which is arranged in front of the locomotive on a vertical shaft, and is revolved, by means of a belt, band, or chain, from a pulley on the axle of the locomotive to the pulley E on the vertical wheel-shaft, the band or chain being seen in dotted lines. F is the frame of the snow-plow. The plow or wheel C is the frustum of a solid cone, revolving around and with the vertical shaft. The sides of the cone are at an angle with the base of about thirty-five degrees, more or less. H represents the buckets or wings, the outer edges of which are parallel with the side of

the cone, the ends being cut on the plane of the base and upper surface of the cone. I is the cap-plate of the plow. On the top of the pulley E of the vertical shaft is a clutch. The pulley E has the half of a clutch-coupling attached to its upper side, and on the shaft above is the other half of the coupling, which works on a feather on the driving-shaft. This loose upper clutch revolves with the shaft, and is dropped down by means of a screw or otherwise, and engages with the pulley-clutch when it is desired to run the snow-plow. This arrangement is seen in dotted lines in the drawing.

As the locomotive moves forward the wheel clears away the snow from the track and throws it to one side. It may be arranged by crossing the belt or chain to reverse the motion and throw the snow either to the right or left.

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

The revolving cone-wheel C, having the wings H, applied in front of a locomotive, as and for the purpose set forth.

WILLIAM J. ROBERTS.

Witnesses:

ROBERT J. JONES,
BERNARD CAROLL.