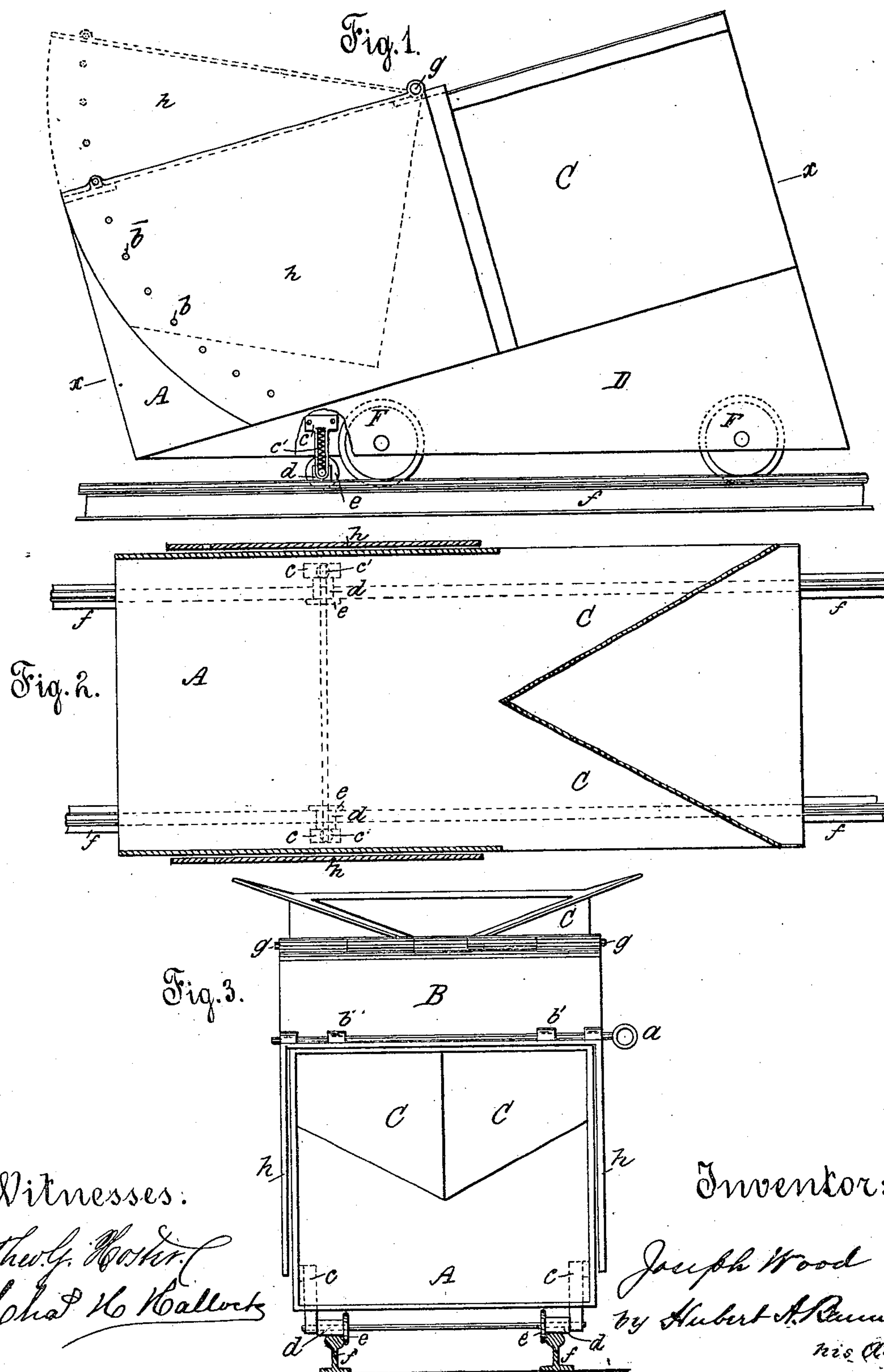


(No Model.)

J. WOOD.
SNOW PLOW.

No. 246,436

Patented Aug. 30, 1881.



N. PETERS. Photo-Lithographer. Washington, D. C.

UNITED STATES PATENT OFFICE.

JOSEPH WOOD, OF RED BANK, NEW JERSEY.

SNOW-PLOW.

SPECIFICATION forming part of Letters Patent No. 246,436, dated August 30, 1881.

Application filed June 15, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH WOOD, of Red Bank, State of New Jersey, have invented a new and useful Improvement in Snow-Plows, of which the following is a full, clear, concise, and exact description, such as will enable others skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawings, which form part of this specification.

The object of my invention is to make a snow-plow for railroads, which, in addition to the usual divider or plow, will have in front a complete box having an adjustable lid, in order that the snow, whether deep or light, will be gathered in the box, prevented from flying, and so compressed that it will strike the divider with such force as to be thrown off away from the track, and which plow has also a scraper on each rail, to clear the track of any snow that may be left by the plow, and also remove all obstructions from off the rail.

Figure 1 is a side view of the plow with a section cut away, so as to show the spring *c*, scrapers *d*, and flange *e*. Fig. 2 is a sectional top view cut through the lines *x x* in Fig. 1. Fig. 3 is an end view, looking from the track into the front end of the plow.

My invention consists in having the box *A*, which has the lid *B*, placed directly in front of the divider *C*. This box is made of sheet metal, and is wide enough to extend out over the rails. It may also be made eight feet, or any desired height, so as to gather the snow in front of the divider *C*. The divider *C* is made so as to come to a sharp edge, which reaches to or into the back end of the box *A*, both ends of which are open. The box and the divider are set on an incline, so that the front end will come very near the track, and a metallic shield, *D*, extending the whole length, projects down over the sides of the rails *f f*. The lid *B* is hinged at the rear end of the box by means of the hinge *g*, and secured down by the rod *a*, which fasten to the eyes *b'*, which are made through the side of the lid *h h*, hanging down

over the sides of the box, or may be made through standards projecting up from the sides of the box.

The plow is mounted on the trucks *F F* beneath the box, and directly before the front trucks *F F* is a scraper, *d*, having a flange, *e*. This scraper may be made square and will rest upon the rail, the flange *e* bearing on the inner side of the rails *f f*. The scrapers have a journal which rests in the bearing *c*, which is slotted four or five inches. This bearing has in its slot a spring, *c'*. The spring will hold the scraper *d* close to the rails unless there be an obstruction on the rails, in which case the scraper will spring up and revolve in its bearings, so as to pass over it, and another side will be presented to the front, so as to continue the scraping.

If the snow be very deep, the lid *B* may be raised and secured at any height desired by the means of the pin *a*, passing through the hole *b*; or, if desired, the lid may be turned back over to the top of the divider.

I am aware that snow-plows have heretofore been made having an inclined bottom, a divider, and a box track-clearer; but being of a particular form and a rigid construction, different from my invention, they could not be gaged to the depth of the snow, nor have they been adapted to effectually accomplish the purpose.

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

1. A snow-plow with the box *A*, having the hinged lid *B*, substantially as described.

2. A snow-plow having the box *A*, with the hinged and adjustable lid *B*, in combination with the divider *C*, constructed and arranged substantially as described.

3. The scraper *d*, held on the rail by means of a spring which will permit them to revolve in either direction, substantially as described.

JOSEPH WOOD.

Witnesses:

HUBERT A. BANNING,
CHAS. S. PHILIPS.