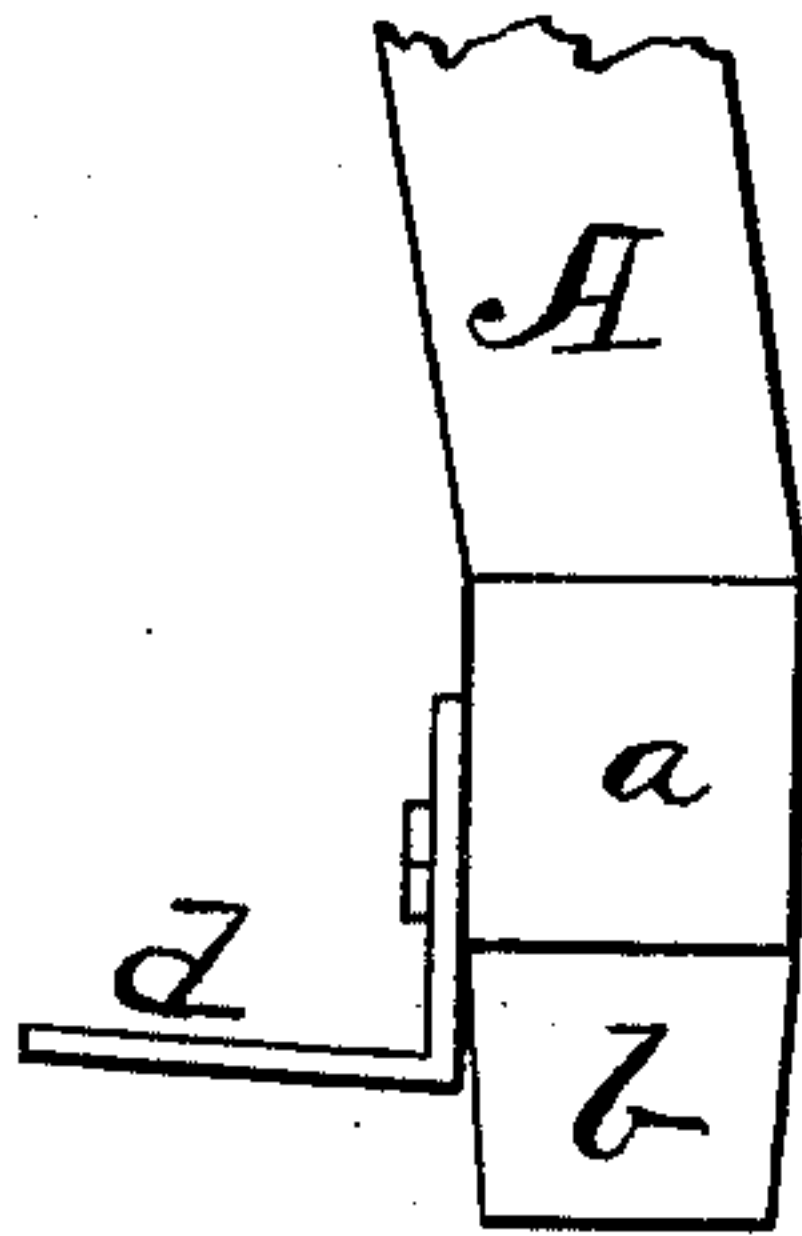


N. W. CHUBBUCK.  
Sleigh-Shoe.

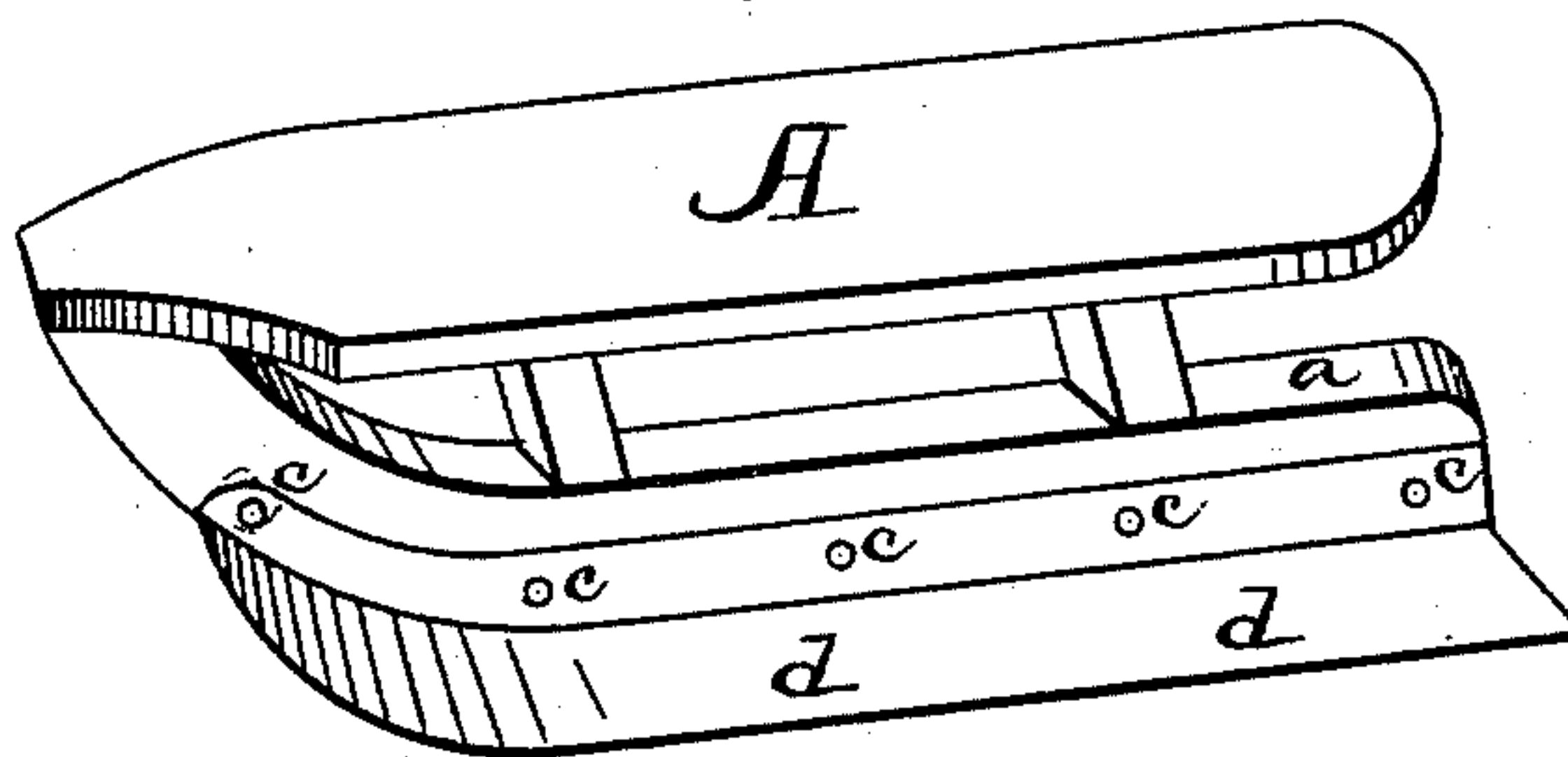
No. 222,985.

Patented Dec. 30, 1879.

*Fig. 1.*



*Fig. 2.*



Witnesses:

T. H. Parsons.

J. R. Drake.

N. W. Chubbuck

Inventor, by

J. R. Drake,

Atty.

# UNITED STATES PATENT OFFICE.

NATHANIEL W. CHUBBUCK, OF HAMBURG, NEW YORK, ASSIGNOR OF ONE-HALF OF HIS RIGHT TO EDWIN FOGLESANGER, OF SAME PLACE.

## IMPROVEMENT IN SLEIGH-SHOES.

Specification forming part of Letters Patent No. 222,985, dated December 30, 1879; application filed October 15, 1879.

*To all whom it may concern:*

Be it known that I, NATHANIEL WILLIAM CHUBBUCK, of Hamburg, in the county of Erie and State of New York, have made certain Improvements in Sleigh-Shoes, of which the following is a specification.

This invention relates to an attachment for the runners of sleds and sleighs.

The object of this invention is to prevent a loaded sled or sleigh from sinking into ruts, and allow it to slide over light snow without cutting in, and also to prevent sliding or slewing on inclines, and the consequent upsetting of loads, as is now the case; and the invention consists in providing an extra or supplementary shoe, which is of thin metal or wood, or both, of L shape, and curved at the front end to follow the shape of the runner, and which is attached to the inside of the runners of the sleigh at a slight distance above the bottom of the regular metal shoe of the runner, and which will be set higher or lower, as desired.

In the accompanying drawings, Figure 1 is a rear-end view of part of the runner with my extra shoe attached, and Fig. 2 a perspective of one runner.

A represents the wooden runner of a bob-sled, *a* being the runner proper, and *b* the usual iron shoe attached thereto. On the inside of the wooden part *a* is attached an L-shaped supplementary shoe, *d*, that is set a short distance above the bottom of the shoe proper, *b*, as shown in Fig. 1, and which follows the shape of the curve of the runner in front, as shown in Fig. 2.

As the iron shoe *b* wears down the shoe *d* can be set higher on the runner by the screws, pins,

or bolts *c c c*. One of these supplementary shoes is set on the inside of each runner. They will effectually prevent the sleigh from sinking into ruts and deep or light snow, as they present so much bearing-surface, distributed over the whole, as to avoid all such difficulties, which are now experienced by loaded sleighs or sleds. They will also prevent sliding on inclines or slants in the road or on ice, which often upsets the load. They also prevent, to a certain extent, making pitch-holes, and will go easily over slushy roads, where other sleighs would stick or strike through to the ground.

When the road, or part of the road, is good, the supplementary runner will not touch and is not needed, but when a bad place is reached it comes in use at once, and avoids the difficulties above stated. It can be attached to any runner by being made long or short to fit, is easily put on or taken off, and will add but little in expense. For loaded sleds or sleighs it will be found invaluable.

I claim—

In combination with the ordinary runners of a sleigh or sled, the extra or supplementary L-shaped shoe *d*, formed of thin metal or wood, the same to be attached to the inside of each runner above the shoe proper, substantially as and for the purpose specified.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

N. W. CHUBBUCK.

Witnesses:

J. R. DRAKE,  
T. H. PARSONS.