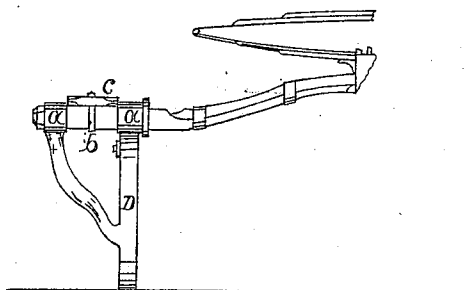


*J. C. Moore,  
Sleigh.*

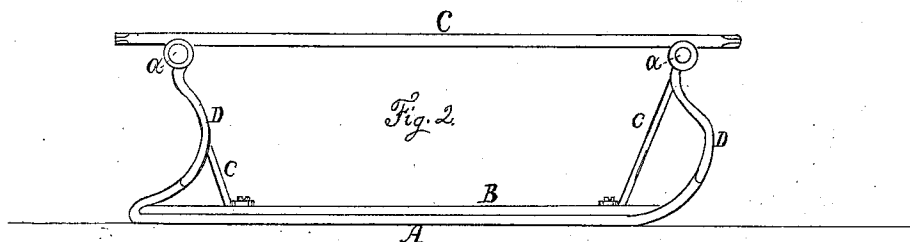
*No. 76498*

*Patented April 7, 1868.*

*Fig. 1.*



*Fig. 2.*



*witnesses*

*Henry Condit &  
Attorneys*

*inventor*

*J. C. Moore*

# United States Patent Office.

J. C. MOORE, OF MADISON, INDIANA.

*Letters Patent No. 76,498, dated April 7, 1868.*

## IMPROVEMENT IN SLEIGH-RUNNERS, AND MODE OF ATTACHING THEM TO THE AXLES OF VEHICLES.

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

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, J. C. MOORE, of Madison, in the county of Jefferson, and State of Indiana, have invented new and useful Improvements in Attaching Sleigh-Runners to the Axles of Wheel-Vehicles; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The object of this invention is to so construct a sleigh-runner of iron or steel, backed with wood or otherwise, that it may be attached to the axles of any wheel-vehicle in lieu of the wheels, in a few moments, with no more extra appliances than are necessary in putting on the wheels.

Figure 1 is a front view of the runner.

Figure 2 is a side elevation.

Similar letters of reference indicate corresponding parts.

A, in the drawings, is the runner, of iron or steel, bent upward at either end, to form the standards or supports, D D, for the axles. These supports are forked at their upper ends, as shown in fig. 1, for the purpose of getting two bearings on the axle. These bearings consist of the eyes *a a*, formed in the upper end of the forks, of sufficient size for the axle to pass through. The bolts represent the ends of the axles. B, fig. 2, is a backing of wood, bolted to the upper side of the runner. C is a board, resting at either end on the axle, between the forks of the standards, to be used as a step for getting in or out of the sleigh. This board is fastened by means of the straps *b b*, fig. 1. *c c*, fig. 2, are braces for strengthening the runner.

When it is desired to use this runner, the wheels of the vehicle are taken off, and the runner slipped on, by passing the axles through the eyes *a a*. The axle-nut is then put on and screwed up tight, as when used with a wheel, and all is complete.

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

1. The forked standards D D, with the eyes *a a* in their upper ends, when used for the purposes and in the manner as specified.
2. The step C, when used in combination with the runner A, for the purposes and in the manner as set forth.

J. C. MOORE.

Witnesses:

J. W. THOMAS,

E. R. Cox.