

(No Model.)

T. CHITTICK.
ROLLER ATTACHMENT FOR SLEDS.

No. 487,990.

Patented Dec. 13, 1892.

FIG. 1.

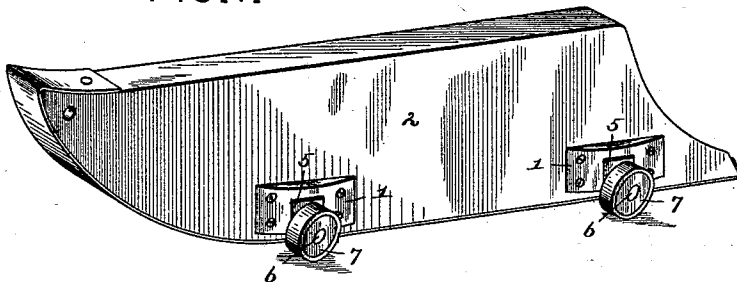


FIG. 2.

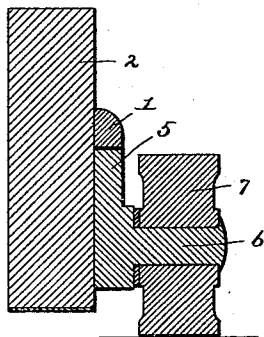


FIG. 3.

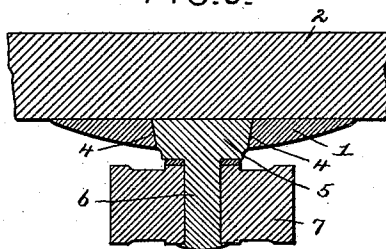


FIG. 4.

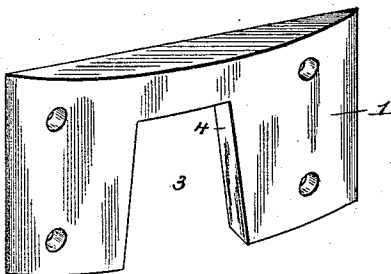
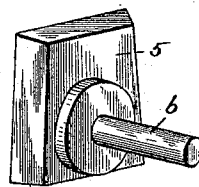


FIG. 5.



Witnesses

Harry L. Amer.
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Inventor

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By his Attorneys,
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UNITED STATES PATENT OFFICE.

THOMAS CHITTICK, OF CORNING, NEW YORK.

ROLLER ATTACHMENT FOR SLEDS.

SPECIFICATION forming part of Letters Patent No. 487,990, dated December 13, 1892.

Application filed July 25, 1892. Serial No. 441,162. (No model.)

To all whom it may concern:

Be it known that I, THOMAS CHITTICK, a citizen of the United States, residing at Corning, in the county of Steuben and State of New York, have invented a new and useful Knock-down Roller Attachment for Sleds, of which the following is a specification.

The invention relates to improvements in sleds.

10 The object of the present invention is to provide an attachment for sleds whereby rollers may be readily attached to and removed from a sled, whereby the sled may be arranged for running on snow or ice and also
15 for running on wheels, so that a sled may be used all the year around.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated
20 in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a runner provided with attachments constructed in accordance with this invention.
25 Fig. 2 is a transverse sectional view. Fig. 3 is a horizontal sectional view. Fig. 4 is a detail perspective view of one of the attachment-plates. Fig. 5 is a similar view of the removable spindle-plate.

30 Like numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a rectangular plate secured to the inner face of a runner 2 and provided
35 with an approximately-rectangular recess 3, which extends upward from the lower edge of the plate and which has converging beveled sides 4 and which is adapted for the reception of a beveled wedge-shaped spindle-plate 5. The beveled edges 4 of the plate 1
40 form dovetailed ways and the spindle-plate is removably arranged within the recess and is provided with a horizontally-extending

spindle 6, on which is arranged a roller 7, the lower edge of which extends below the runner, 45 whereby the roller is adapted to support the sled so that the runners thereof will be above the ground. This construction enables the rollers to be readily attached to and removed from the runner, and the attachment-plate 1 50 may remain on the runners at all times, as it will not interfere with the proper use of the sled. It will also be seen that the attachment interferes in no wise with the sled or construction thereof and may be readily applied to 55 any ordinary sled.

It will be apparent that the attachment is simple and inexpensive in construction, strong and durable, and that it is adapted to enable a sled to be used at all times.

What I claim is—

1. An attachment for sleds, comprising a plate adapted to be secured to the face of an ordinary runner and provided with vertical 65 ways, a vertically-disposed spindle-plate detachably arranged in the ways and provided with a horizontal spindle, and a roller arranged on the spindle, substantially as described.

2. An attachment for sleds, comprising a plate adapted to be secured to the face of an ordinary runner and provided with a recess 70 extending upward from the lower edge of the plate and having converging beveled sides, the detachable vertically-disposed spindle-plate wedge-shaped and provided with beveled side edges and fitting in the recess and having a horizontal spindle, and a roller arranged on the spindle, substantially as described. 75

In testimony that I claim the foregoing as 80 my own I have hereto affixed my signature in the presence of two witnesses.

THOMAS CHITTICK.

Witnesses:

THOS. DWYER,
JAMES MADIGAN.