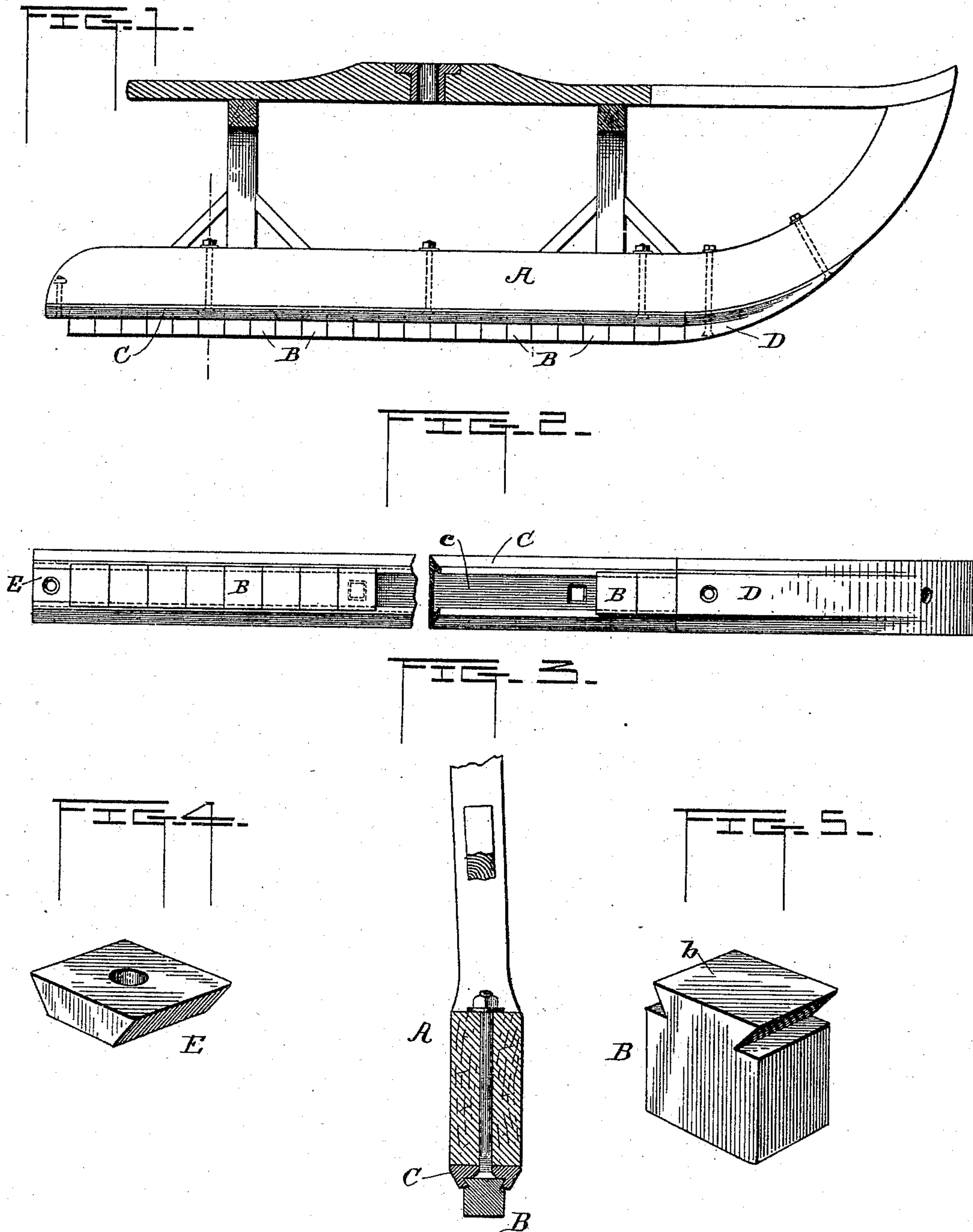


(No Model.)

R. H. JORDAN.
SLED SHOE.

No. 488,266.

Patented Dec. 20, 1892.



Witnesses
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UNITED STATES PATENT OFFICE.

ROBERT H. JORDAN, OF JEFFERSON, PENNSYLVANIA.

SLED-SHOE.

SPECIFICATION forming part of Letters Patent No. 488,266, dated December 20, 1892.

Application filed May 12, 1892. Serial No. 432,717. (No model.)

To all whom it may concern:

Be it known that I, ROBERT H. JORDAN, a citizen of the United States, residing at Jefferson, in the county of Greene and State of Pennsylvania, have invented certain new and useful Improvements in Sled-Shoes; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to sleds, and its object is to obtain a runner-shoe or sole which shall be simple in construction, durable and capable of being easily and cheaply repaired. When sled shoes are made of hard steel, they are very liable to break in cold weather, being more or less brittle and unable to stand sudden strains or shocks. But if made of softer and tougher steel, they rapidly wear out and require frequent renewal.

My invention aims to unite in one structure the good qualities of both kinds of shoes.

The invention consists in a shoe composed of a plurality of short sections of hard steel, placed close together, and suitably fastened to the runner.

Figure 1 is a side elevation, partly in section of a bob-sled equipped with my improved shoe. Fig. 2 is a bottom plan view of a runner embodying my invention. Fig. 3 is a transverse section thereof. Fig. 4 shows the rear stop block. Fig. 5 is a perspective view of a shoe section.

The invention is applicable to sleds and sleighs of all kinds.

Let A represent the wooden runner. To the bottom of this I secure a plurality of short metallic sections B preferably made of cast steel, or case hardened steel, and preferably all of the same width and thickness, so as to present, when grouped, a smooth even lower surface. The advantage of this mode of construction is that when any portion of the shoe becomes worn or damaged, it can be replaced at a minimum cost, by removing the worn or damaged section and inserting a new one.

Various ways of attaching the sections to the runners suggest themselves. I prefer

however, the one shown. Bolted firmly to the bottom of the runners A is a strip of metal C, preferably soft, tough, steel, having a dove tail groove *c* in its under side. The upper end of each shoe section has a dove tail tenon *b* adapted to fit snugly into the groove *c*. The front end of the strip C abuts against a steel block D curved to fit the front of the runner, and serving both as a bumper, and as a front stop to the sections B. The latter are slid into the groove *c* until it is nearly filled. Then the rear stop block E is slid in and bolted in place, holding all the sections firmly together. The tough strip C prevents the shoe from breaking completely in two, while the hard sections B resist wear. Should any section become broken or badly worn, it can easily be removed by taking out the rear block E and sliding out the sections.

Among other advantages, possessed by this shoe is that of running easily over bare spots in the road.

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

1. A sled shoe consisting of a plurality of short sections secured to the runner, substantially as described.

2. A sled shoe consisting of a plurality of short sections of hard steel secured to a strip of tougher metal, substantially as described.

3. A sled shoe consisting of a strip of metal having a dove tail groove and a plurality of sections having dove-tail tenons fitting into said groove, substantially as described.

4. A sled shoe consisting of a strip of tough metal having a dove tail groove, and a plurality of short sections of hard metal, each having a tenon fitting said groove, substantially as described.

5. The combination with the sled runner, of the strip C having dove tail groove *c*, the sections B having tenons *b* fitting said groove, the block D, and the stop E, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

ROBERT H. JORDAN.

Witnesses:

A. I. YOUNG,
JOHN R. DUNLAP.