C. De BODISCO.

Sled.

No. 88,457. Patented March 30, 1869.

FIG. 1.

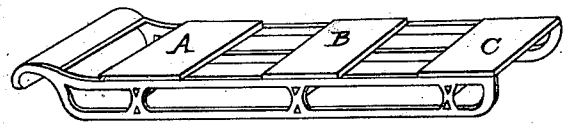


FIG. 2

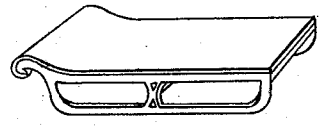


FIG. 3

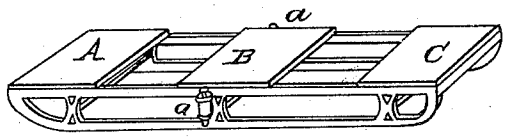
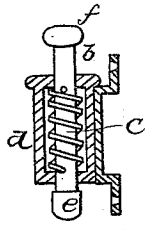


FIG. 4



INVENTOR

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WITNESSES

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United States Patent Office.

CONSTANTINE DE BODISCO, OF ST. PETERSBURG, RUSSIA.

Letters Patent No. 88,457, *dated March* 30, 1869.

IMPROVEMENT IN SLEDS.

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, CONSTANTINE DE BODISCO, of St. Petersburg, in the Empire of Russia, have invented a new and improved Sled, for sliding down ice-hills, or ice-mountains; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to the form and construction of sleds to be used on ice-mountains, similar to those of Russia.

It is necessary that sleds used on these hills should be much stronger in construction than those used elsewhere. I therefore construct my sled entirely of metal, the runners of steel or wrought-iron, case-hardened, and the body of sheet-iron, and all properly welded and riveted together.

For the purpose of securing the greatest amount of speed for the sled, I make the runners perfectly parallel with each other, and have them to curve up to the body of the sled, at both ends.

The steel of which the runners are made, is to be perfectly smooth, and highly polished, and not over one-fourth of an inch in thickness, with rounded edges, so as not to cut the ice, and to offer as little resistance to the motion of the sled as possible.

In the accompanying drawings—

Figures 1 and 3 represent a double sled, or a sled for two persons.

Figure 2 represents a sled intended for one person. The top of this sled is entirely covered by a single plate of iron.

Figure 4 represents a sectional view of the guides.

In figs. 1 and 3, A B C represent sheet-iron plates, running across the top of the sled, over which is strapped a cushion.

In going down an ice-hill, on these sleds, a gentleman sits on the cushion, in front, and a lady, resting her hands on his shoulders, kneels behind him, on that part of the cushion over the space between the plates B and C, causing a depression of the cushion therein, which, while giving the lady a secure and firm position on the sled, increases the speed of the same, by throwing the weight behind.

While the height, width, and length of these sleds may be matters of taste, my experience has proven that the double sleds answer better the purposes for which they are intended, when made three and three-fourths inches high, from eleven to twelve inches wide, and thirty-three inches long.

These sleds are guided, in descending ice-hills, by touching the ice, on either side of the sled, with the gloved hand or foot, or the sled may be provided with guides, on each side, as represented by *a*, in fig. 3, and by fig. 4.

These guides consist of the bolt *b*, (see fig. 4,) provided with the spring *c*, working in the socket *d*.

The foot *e* of the bolt *b* is made of rubber, and its head is provided with the knob *f*, which extends above the surface of the cushion.

The course of the sled is determined by the force with which the rubber foot *e*, of the bolt *b*, is pressed down, by the hand, on the ice.

What I claim as my invention, and desire to secure by Letters Patent, is—

A sled for ice-hills, constructed entirely of metal, as herein shown, and provided with the guides *a a*, possessing the rubber feet *e e*, the whole constructed and arranged in the manner and for the purposes herein set forth and described.

In testimony that I claim the foregoing invention, I have hereunto set my hand, this 21st day of November, 1868.

CONSTANTINE DE BODISCO.

Witnesses:

PEDRO DIEZ DE RIVERA,

GEO. W. MCGILL.