

A. PFUND.
Ice-Elevating Tracks

No. 144,133.

Patented Oct. 28, 1873.

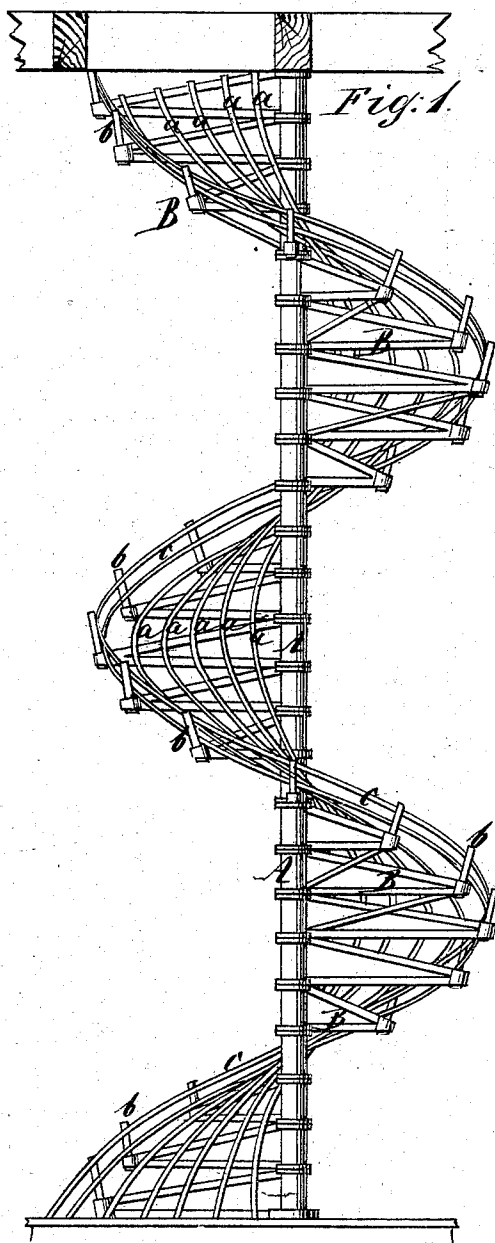


Fig. 2.

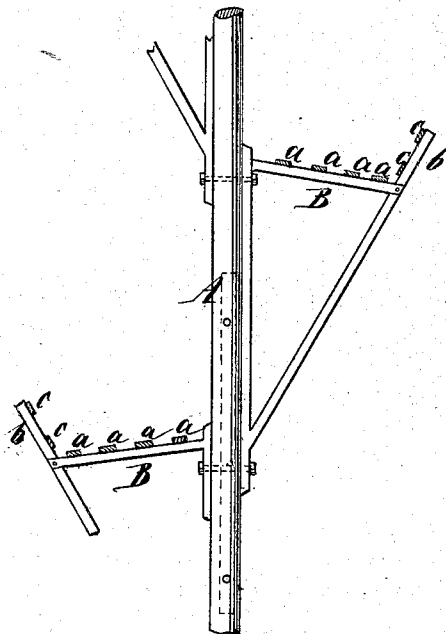
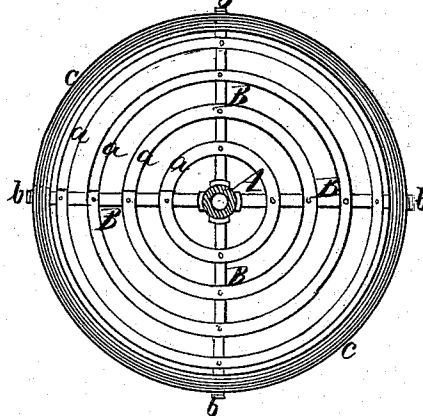


Fig. 3.



Witnesses:
Ernest Bilhuber;
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UNITED STATES PATENT OFFICE.

ANTHONY PFUND, OF NEW YORK, N. Y.

IMPROVEMENT IN ICE-ELEVATING TRACKS.

Specification forming part of Letters Patent No. **144,133**, dated October 28, 1873; application filed October 10, 1873.

To all whom it may concern:

Be it known that I, ANTHONY PFUND, of the city, county, and State of New York, have invented a new and Improved Slide for Lowering Ice and other Articles; and I do hereby declare the following to be 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 drawing, forming part of this specification, in which drawing—

Figure 1 represents a side view of this invention. Fig. 2 is a transverse section of the same. Fig. 3 is a plan or top view of the same.

Similar letters indicate corresponding parts.

This invention consists in a slide composed of a series of spiral strips resting on radial arms which project from a central column, and from which rise standards to support a spiral rail, in such a manner that a chunk of ice, or a box or other article, placed on the upper extremity, descends with a moderate velocity, its motion being retarded by the friction against the spiral strips resting on the radiating arms, and particularly against the spiral rail, and by these means a slide is obtained which takes up comparatively little room, and which allows of lowering ice or other articles with great rapidity and with perfect safety.

In the drawing, the letter A designates a column, from which radiate a series of arms, B, one above the other, as shown in Fig. 1. These arms may either be made of cast-iron or of wrought-iron, and they are secured to the central column by means as shown in Fig. 1; or they may be fastened in any other suitable manner. On said arms rest a series of strips, *a*, of sheet metal, or of hub-iron, which are extended spirally round the column A at suitable distances apart. From the outer ends of the arms B rise standards *b*, to which are secured two or more strips, *c*, of sheet metal or

hub-iron, so as to form a spiral rail extending round the column A. The arms B are slightly inclined outward, (see Fig. 2,) so that a chunk of ice or another article placed on the upper extremity of my slide will have a tendency to rest against the spiral rail *c*.

From this explanation, it will be readily seen that a slide constructed according to my invention requires but little room, and it can be extended from the top of a building down to its lowest story without inconvenience, and by means of my slide chunks of ice can be readily introduced into the ice-chamber of a refrigerator-building without requiring much hand labor.

My slide can also be used with advantage for lowering boxes of merchandise, bales of cotton or wool, or other articles of a similar nature, from the upper story of a warehouse to the street.

It is obvious that the inclination or grade of my spiral slide can be increased or diminished according to its height, and according to the articles for which it is to be used; and as a chunk of ice or other article slides down on the same, the inclination of the arms B and the centrifugal force cause said article to bear hard against the spiral rail *c*, and the friction produced by such contact checks the velocity of the descent, and renders the same easy and free from danger.

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

A slide constructed of a series of arms, B, which radiate from a central column, A, and support spiral strips *a*, and a spiral rail, *c*, substantially as shown and described.

This specification signed by me this 19th day of September, 1873.

ANTHONY PFUND.

Witnesses:

W. HAUFF,
E. F. KASTENHUBER.