

(No Model.)

2 Sheets—Sheet 1.

B. B. FLOYD.

SLIDING HILL AND TOBOGGAN TO BE USED THEREWITH.

No. 374,736.

Patented Dec. 13, 1887.

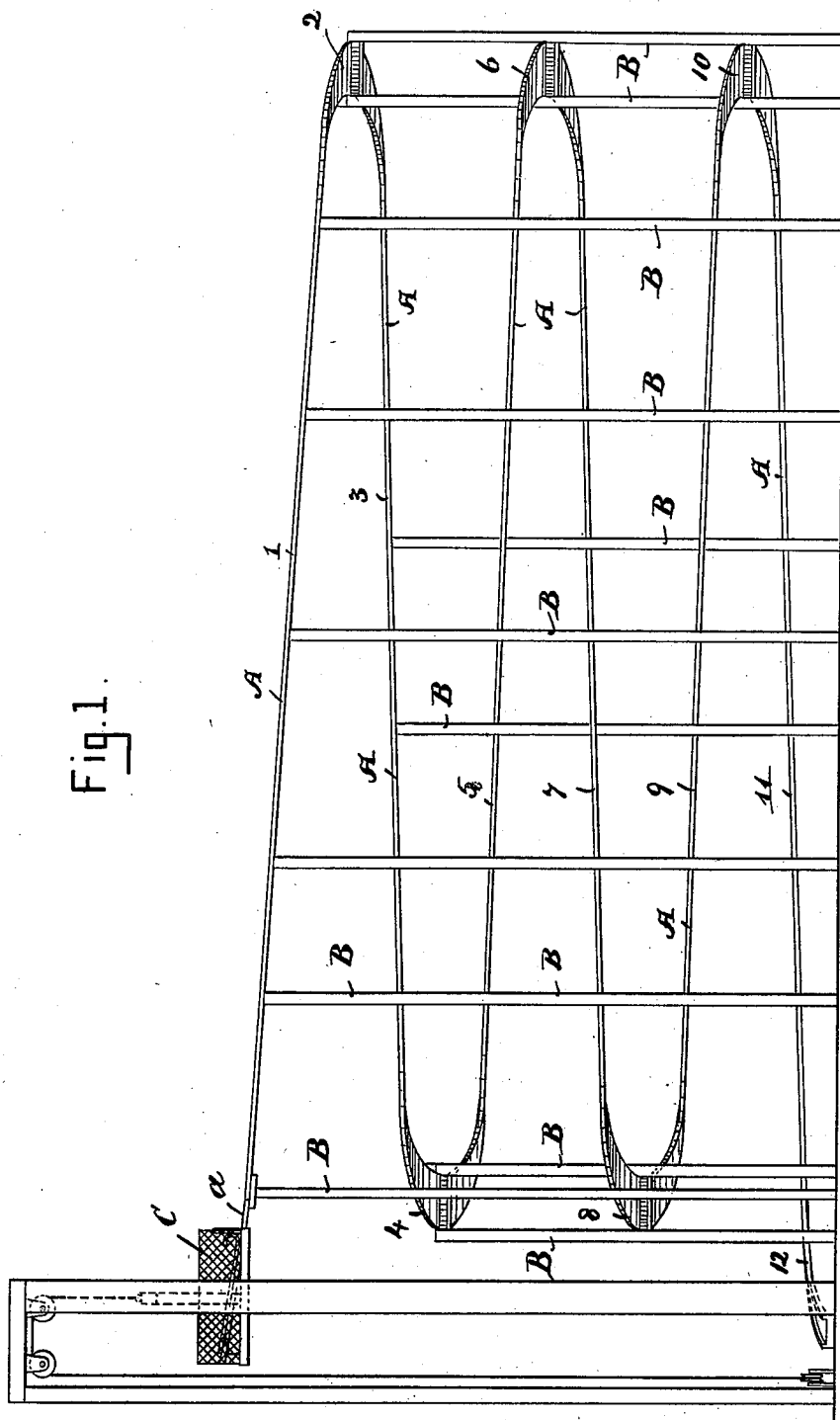


Fig. 1.

Witnesses.

J. George Sattler
A. R. Reddall

Inventor.

Bryon B. Floyd
by C. Blanka
attorney.

(No Model.)

2 Sheets—Sheet 2.

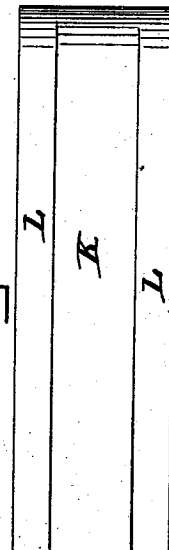
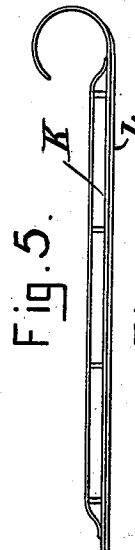
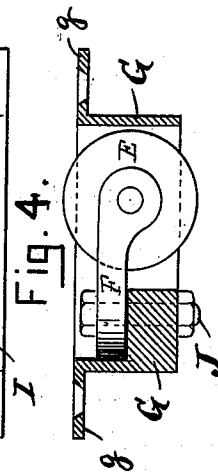
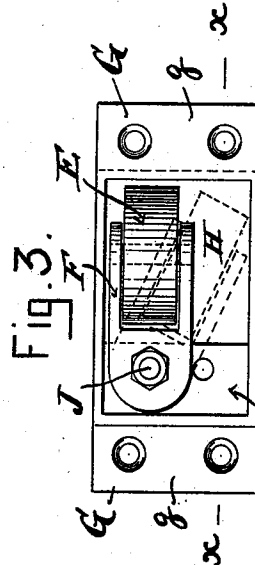
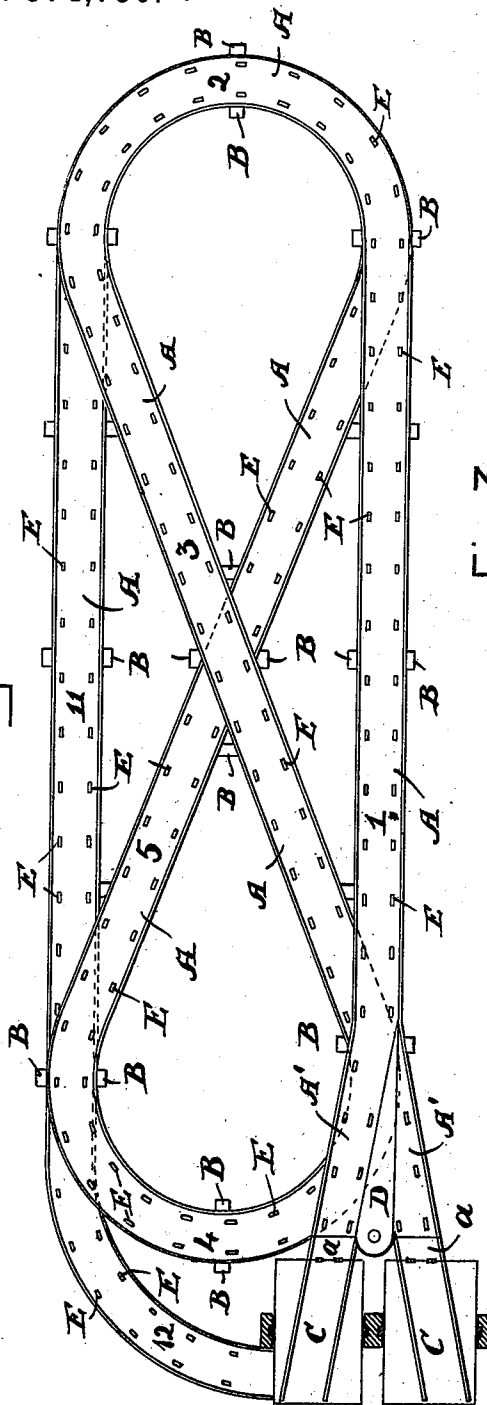
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Fig. 2.



Witnesses.
J. George Seltzer.
A. R. Beddall

Inventor.
Byron B. Floyd
by E. Blanta
attorney.

UNITED STATES PATENT OFFICE.

BYRON B. FLOYD, OF HAVERHILL, MASSACHUSETTS.

SLIDING-HILL AND TOBOGGAN TO BE USED THEREWITH.

SPECIFICATION forming part of Letters Patent No. 374,736, dated December 13, 1887.

Application filed August 10, 1887. Serial No. 246,594. (No model.)

To all whom it may concern:

Be it known that I, BYRON B. FLOYD, a citizen of the United States, residing at Haverhill, in the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Sliding-Hills and in Toboggans to be Used therewith, of which the following is a specification.

The object of my invention is to produce a sliding-hill particularly adapted for either halls or rinks or for seaside or other places of summer resort where the hill can be erected in the open air.

The invention consists in constructing the hill in a zigzag form and terminating at a point immediately below the starting-point, so that a very long hill may be obtained in a comparatively small space, the hill being provided with small wheels, whereon the toboggan runs.

Referring to the accompanying drawings, Figure 1 represents a side elevation of a sliding-hill embodying my invention. Fig. 2 is a plan or top view of the same. Fig. 3 is a plan or top view of one of the wheels and its frame drawn to a large scale. Fig. 4 is a section taken on line X X of Fig. 3. Fig. 5 is a side view of a toboggan to be used with the sliding-hill. Fig. 6 is a view of under side of the same.

A represents the sliding-hill, the various sections of which are shown supported by means of posts or pillars B B; but it may be supported by any suitable frame-work; or, if erected in a hall, it can be supported by brackets, or partly by brackets and partly by pillars, or hung with iron rods.

C C are elevators for raising the toboggans to the upper end of the track. The portion of the platform upon which the toboggan rests is formed on an incline and the platforms communicate with the upper end of the track by means of flaps or boards *a a*, that are hinged to the elevator-platforms C C in such manner that when the elevator is being raised the board *a* will stand in an upright position and can be secured by means of a suitable bolt or catch, so that the board *a* will form a bearing for the front end of the toboggan to rest against; but when the elevator has been raised to the required height the board *a* can be released, and falling down from a connection with the

sliding-hill releases the toboggan, which then starts off.

The elevator may be provided with a false bottom hinged to the front of the elevator-platform, so that its rear end can be raised to any desired height, and thus form a steep incline. When the elevator-platform is thus constructed, the false bottom is lowered when the elevator is down, so that the toboggan can run thereon. The rear of the false bottom is then raised, so that when the elevator is raised to the level of the top of the sliding-hill the flaps *a* will fall down and the toboggan will slide quickly out of the elevator.

In the drawings I have shown two elevators, so that as one is being raised the other can be lowered ready to take up a fresh toboggan, and each of these elevators connects with the sliding-hill A by means of the flap or hinge boards *a* and the side tracks, A' A', a movable guide or switch, D, being hung between the two side tracks, which switch can be shifted to guide the toboggan onto the main track of the sliding-hill.

The hill starts at a point opposite the elevators and proceeds in a straight direction, 1, but on the required incline, then turns in a half-circle, 2, and proceeds in an angular direction, 3, under the track above, then turns in a half-circle, 4, and thence in an angular direction, 5, then turns in a half-circle, 6, thence in an angular direction, 7, then in a half-circle, 8, then again in an angular direction, 9, then in a half-circle, 10, and thence in a straight direction, 11, and ends in a quarter-circle, 12, at the foot of the elevator C.

E E are wheels let into the track A for the toboggan to run upon; or they may be secured to the toboggan. One of these wheels and its frame I have shown enlarged in Figs. 3 and 4. The frame G is provided with ears *g g*, by which it is secured to the track A, and also an opening, H, in which the wheel E is free to work.

I is a cross-piece provided with two holes. To this cross-piece the saddle F, that carries the wheel E, is secured by means of the bolt J. It will be seen that when the saddle F is secured to the bar I it will be free to turn in one direction or the other, according to which side of the frame the saddle is attached. The object of having the wheel free to move to one

side is, that it can adjust itself so as to carry the toboggan round any sweep or curve.

K is the toboggan. (See Figs. 5 and 6.) On each side of the bottom I secure a piece of flat metal, LL, to run upon the wheels EE, so that in descending the hill the toboggan will run smoothly and evenly over the wheels.

Although I have described the form of sliding-hill I prefer, I do not confine myself to any particular form of zigzag, as other forms might be utilized, so long as the various sections pass one under the other and terminate at a point immediately below the starting-point, so as to produce a long hill in a comparatively small space.

What I do claim is—

1. A sliding-hill of zigzag form, the various sections passing one under the other and terminating at a point immediately below the starting-point, substantially as shown and described.

2. The wheels E, mounted in saddle F and

pivoted to cross-piece I, so as to swing freely in frame G, in combination with a toboggan or sliding-hill, substantially as and for the purpose set forth.

3. In combination with a sliding-hill, the elevator C, provided with flap a, for retaining the toboggan on the platform when the elevator is being raised and for forming a connection with the track at its upper end, substantially as shown and described.

4. In combination with a sliding-hill and two elevators, the side tracks, A' A', and switch or guide D, substantially as and for the purposes set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

BYRON B. FLOYD.

Witnesses:

L. W. HOWES,
E. PLANTA.