

(No Model.)

G. H. CHADEAYNE.

TOBOGGAN.

No. 401,734.

Patented Apr. 23, 1889.

FIG. 1.

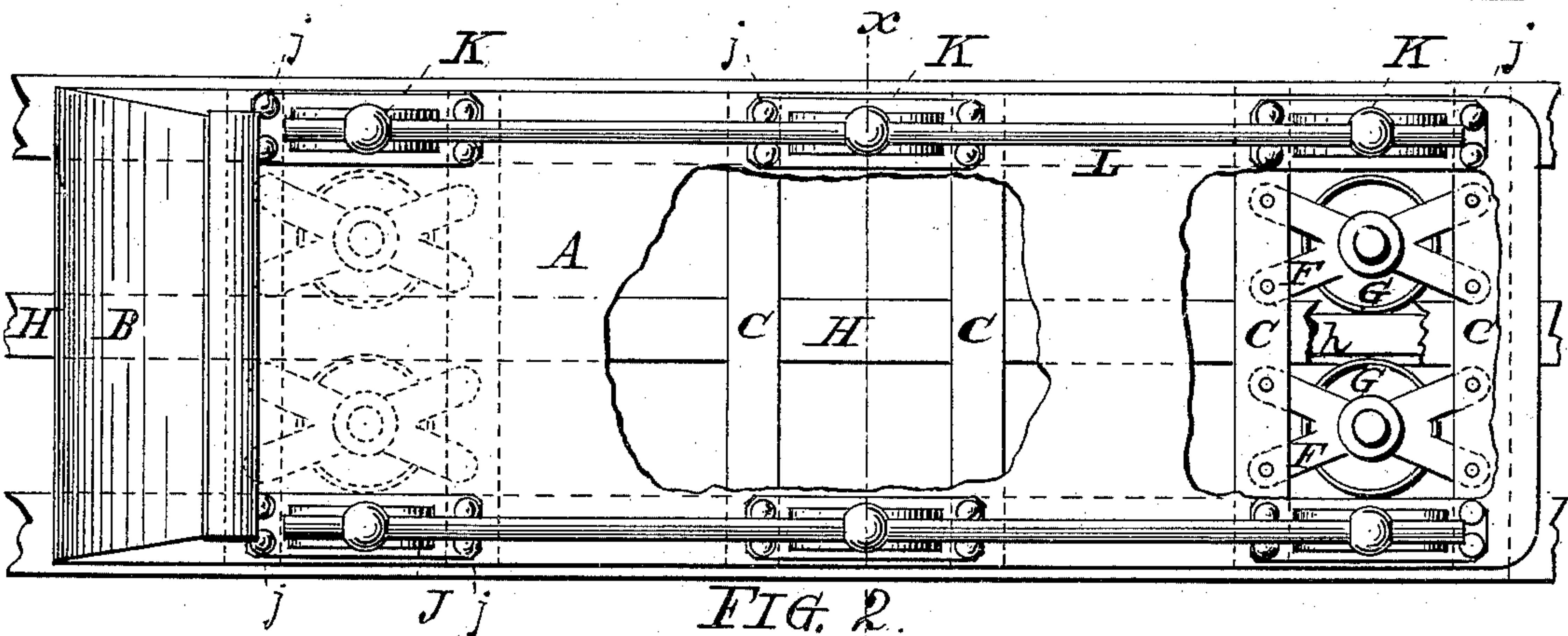
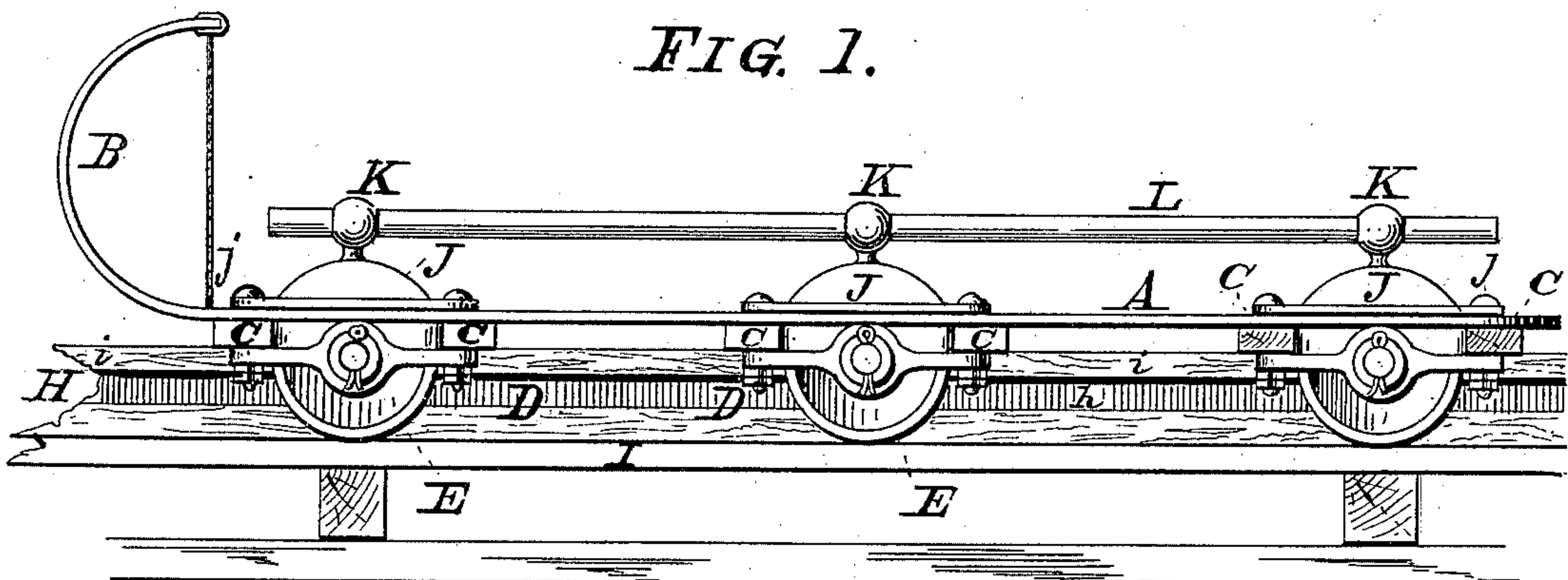


FIG. 2.  
x

FIG. 3.

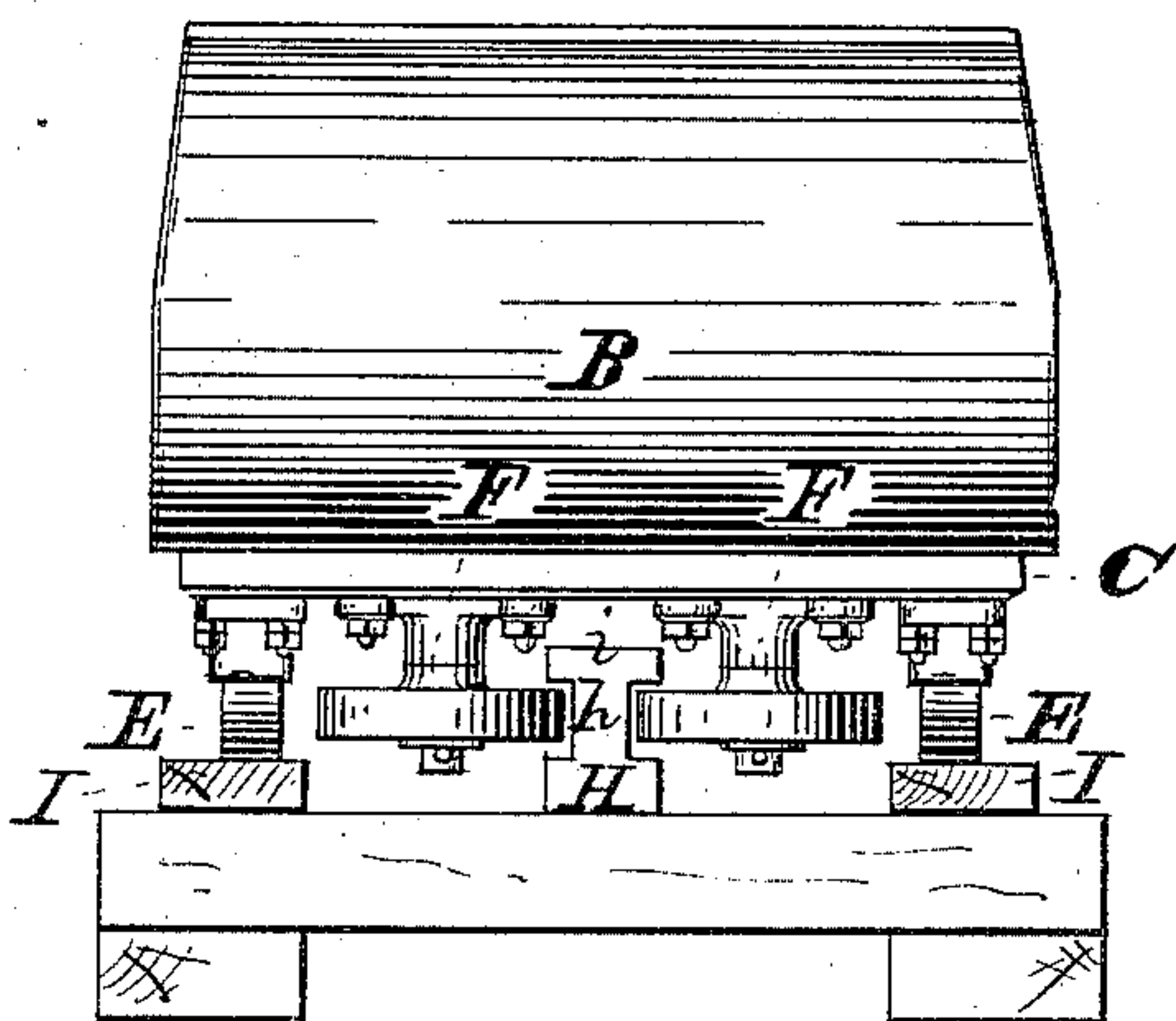
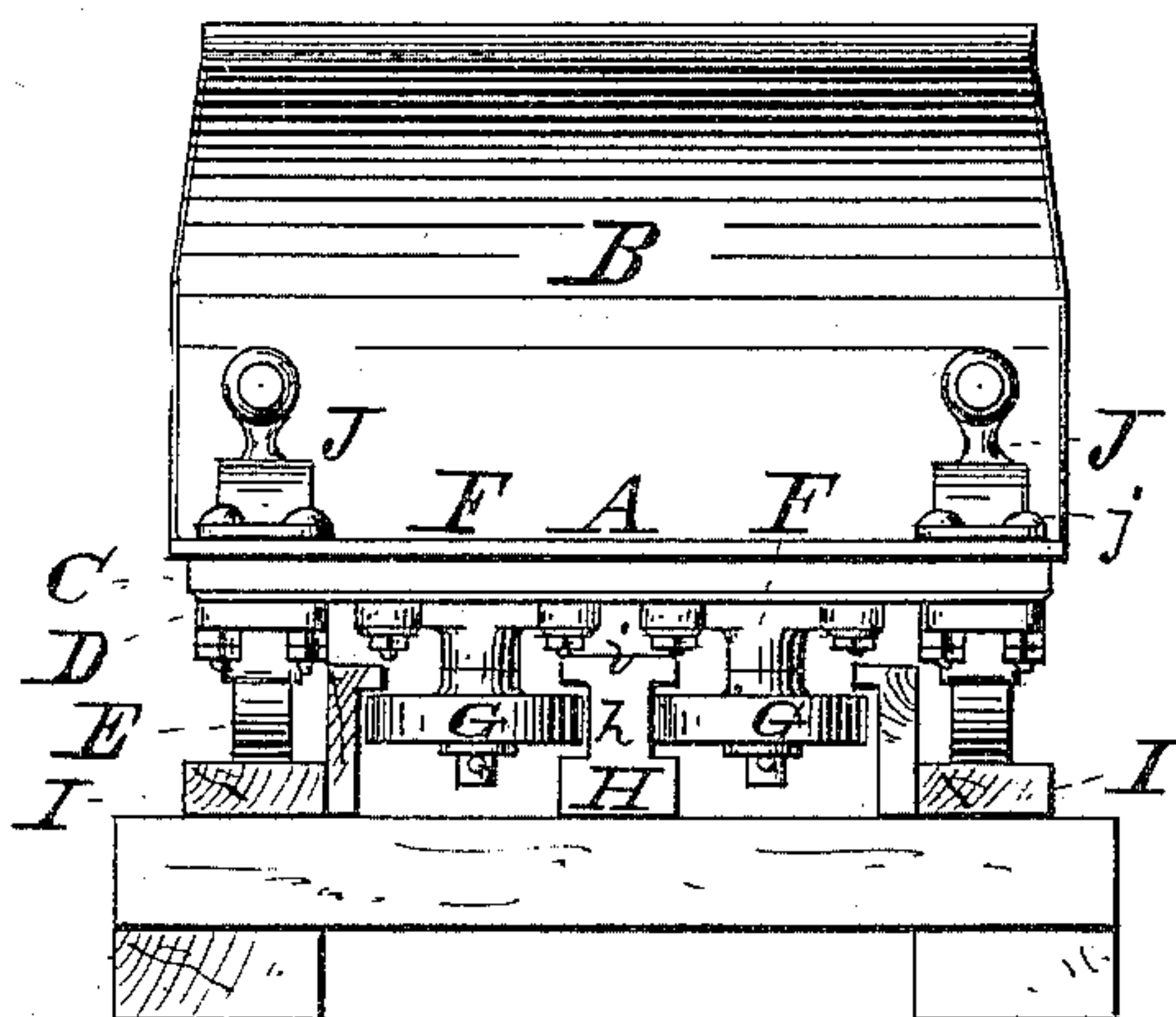


FIG. 4.



Witnesses:

Wm O Stark  
Emil Jetter

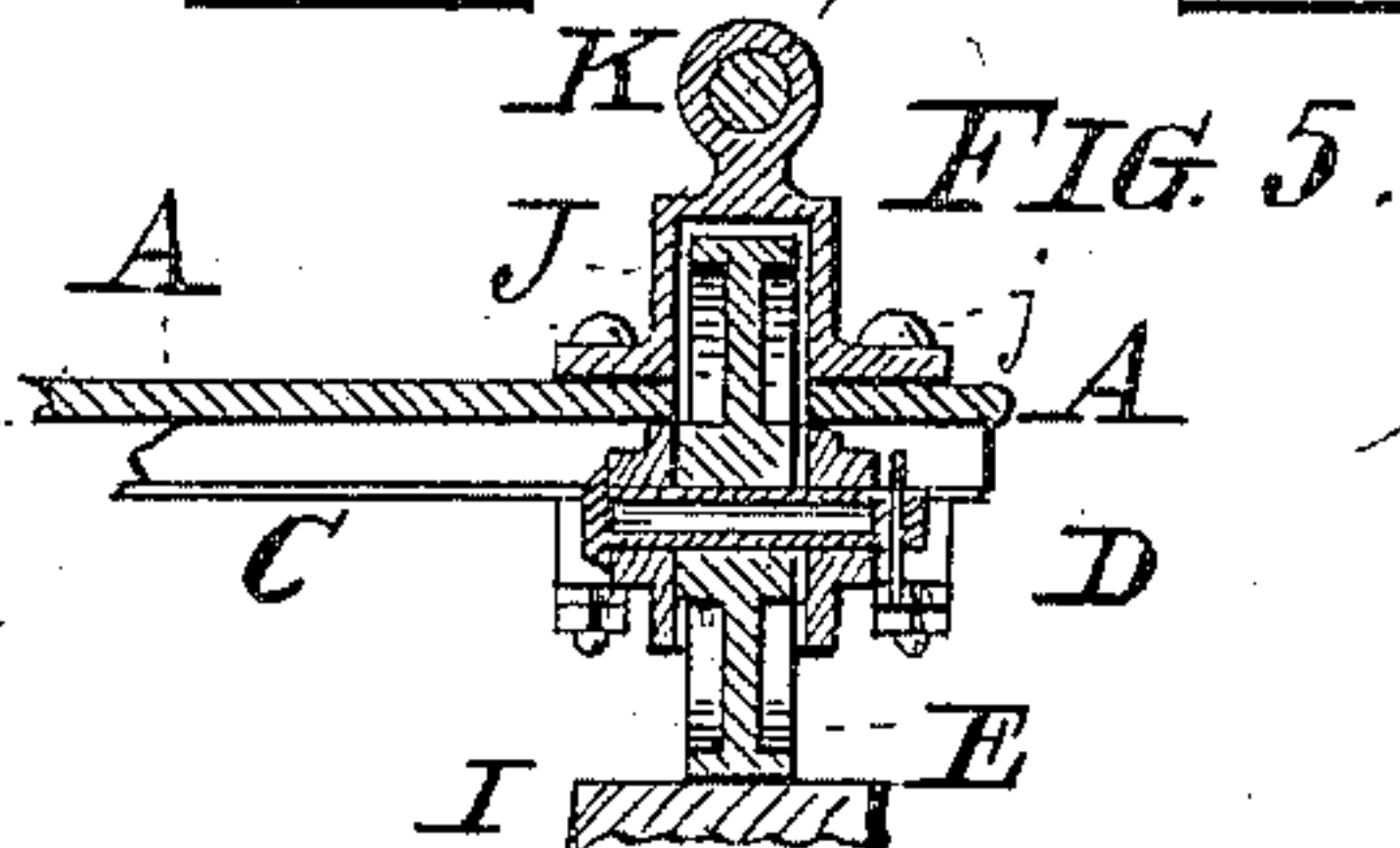


FIG. 5.

Inventor:

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# UNITED STATES PATENT OFFICE.

GEORGE H. CHADEAYNE, OF BUFFALO, NEW YORK.

## TOBOGGAN.

SPECIFICATION forming part of Letters Patent No. 401,734, dated April 23, 1889.

Application filed October 5, 1888. Serial No. 287,261. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE H. CHADEAYNE, of Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Toboggans; and I do hereby declare that the following description of my said invention, taken in connection with the accompanying sheet of drawings, forms a full, clear, and exact specification, which will enable others skilled in the art to which it appertains to make and use the same.

My present invention has general reference to improvements in toboggans designed for in and out door sport; and it consists, essentially, in the novel and peculiar combination of parts and details of construction, as hereinafter first fully set forth and described, and then pointed out in the claims.

In the drawings already mentioned, which serve to illustrate my said invention more fully, Figure 1 is a side elevation of a toboggan constructed in accordance with my said invention. Fig. 2 is a plan of the same, parts being broken to expose underlying mechanism. Fig. 3 is a front view of the same. Fig. 4 is a rear view showing modifications of my device. Fig. 5 is a transverse sectional view, in line *xx* of Fig. 2, of one of the track-wheels and its bearings, &c.

Like parts are designated by corresponding letters of reference in all the figures.

The object of my present invention is the improvement of toboggans and their slides or track, so that persons using the same cannot possibly be injured by either the toboggan leaving the track or scraping along side walls, &c. The object, furthermore, is to so construct the device as to enable me to use comparatively large track and guide wheels without increasing the height of the toboggan to any extent, and thereby to do away with the noise now caused by the toboggan when running.

Heretofore toboggans have been constructed with track and guide wheels, the latter arranged at right angles to the former and located outside of said track-wheels and projecting beyond the platform of the toboggan, an instance being shown in my Letters Patent of August 16, 1887. This construction, though an improvement over previous devices, is still objectionable, for the reason that

a person riding the same is liable to hurt his or her hands by coming in contact with the sides of the coasting-track, which sides guide the toboggan upon its proper track. It is, furthermore, objectionable on account of the noise caused by the small wheels revolving at a high rate of speed. These objections and drawbacks are all overcome in my present device and other advantages obtained—viz., increased speed, owing to reduced friction by increasing the size of the wheels.

A is the platform of my toboggan, having in front the usual curved dash, B. This platform I construct of strong bent wood, and provide it on its under side with a number of battens, C, to which in turn I fasten bearings D, for the track-wheels E, there being three sets (more or less) of such track-wheels, as shown in Figs. 1 and 2.

To the forward and rear pairs of battens are fastened cross-pieces or spiders F, which have centrally bearings for horizontally-revolving guide-wheels G, their relative position being such as to admit between them the web *h* of a guide-rail, H, whereby the toboggan is absolutely prevented from jumping the track proper, I, by the caps *i* of said guide-rail.

Upon the platform A, over the track-wheels, which protrude said platform, I locate guards or caps J, having upwardly-projecting eyes K, to receive the hand-rail L, as illustrated in Figs. 1 and 2, said guards and eyes being preferably cast in one piece and screwed upon the platform by bolts *j*, which bolts pass through said caps, the platform, the battens, and the bearing for the track-wheels, and thereby securely fasten these parts in position.

Instead of placing the guide-rail centrally between the track-rails, I may place two guide-rails with caps close to the track-rails, as shown in Fig. 4, such construction being a modification of the device heretofore specified and an equivalent of the same.

It will now be readily seen that by constructing the track and guide rails with their respective track and guide wheels, as described, I derive the advantage that I can use wheels much larger in diameter than have heretofore been employed. This construction causes less friction and therefore increased speed upon the same track, and comparatively no noise to speak of. Furthermore, there are



no side boards or tracks or analogous means for keeping the toboggan upon its path that project beyond the platform. The result is that the person riding upon the toboggan cannot possibly be hurt at the hands, as is frequently the case with toboggans as now made, while at the same time the guide-wheels running in grooves, as shown, cannot leave these grooves, thus doing away with one of the causes of accidents upon a coasting-track.

It is evident that these toboggans can be manufactured in all the various sizes without change or modification.

Having thus fully described my invention, I desire to have secured to me by Letters Patent of the United States—

1. A toboggan consisting, essentially, of a platform, A, having the dash B, and a series of battens, C, each set of said battens being provided with outside bearings, D, having track-wheels E, and two spiders, F, having vertical spindles fitted with guard-wheels G, engaging a central rail having grooves on opposite sides, said outside bearings being provided with caps J, having eyes K fitted with the hand-rails L, the whole being constructed and combined in the manner as and for the object stated.

2. In toboggans, the combination, with the platform, of the battens having the bearings for the track-wheels, and the spiders with the bearings for the guide-wheels, as described,

said bearings being provided with wheels, as stated, and the whole arranged to operate with suitable tracks, as and for the purpose set forth.

3. In toboggans, the track-wheel bearings having wheels, as shown, in combination with caps having eyes provided with hand-rails, as and for the purpose stated.

4. In toboggans, a bearing for the guard-wheels, consisting of an X-shaped frame having at the intersection of the radiating members a boss provided with a pendent stud fitted with a horizontally-revolving guard-wheel, G, in combination with the battens and the platform, as and for the object set forth.

5. In toboggans, the combination, with the platform and battens, of a combined wheel-bearing and cap, consisting of a frame, D, having the wheel E journaled upon a bolt, and a cap-piece, J, provided with upwardly-projecting member K, adapted to receive the hand-rail L, said cap-piece being secured upon the platform and the wheel-bearing below the same, in a manner as and for the purpose set forth.

In testimony that I claim the foregoing as my invention I have hereto set my hand in the presence of two subscribing witnesses.

GEO. H. CHADEAYNE.

Attest:

MICHAEL J. STARK,  
WM. O. STARK.