No. 687,071. Patented Nov. 19, 1901.

C. R. SCHOLL.

MECHANICAL TOY.

(Application filed Feb. 2, 1901.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.

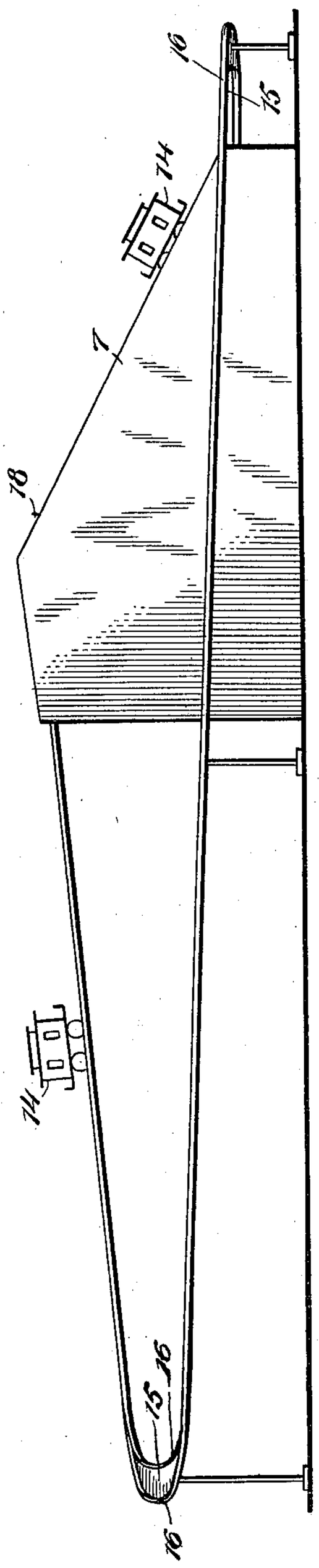
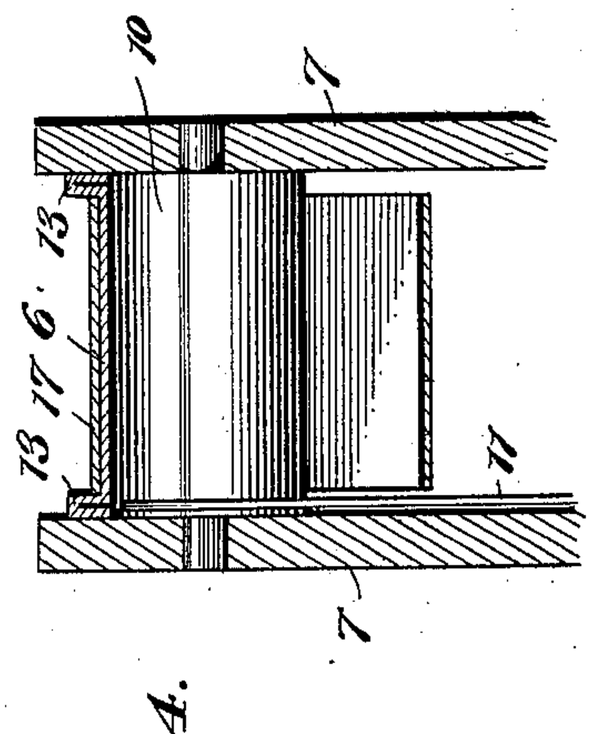


Fig. 4.



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(Application filed Feb. 2, 1901.)

(No Model.) 2 Sheets—Sheet 2.

Fig. 2.

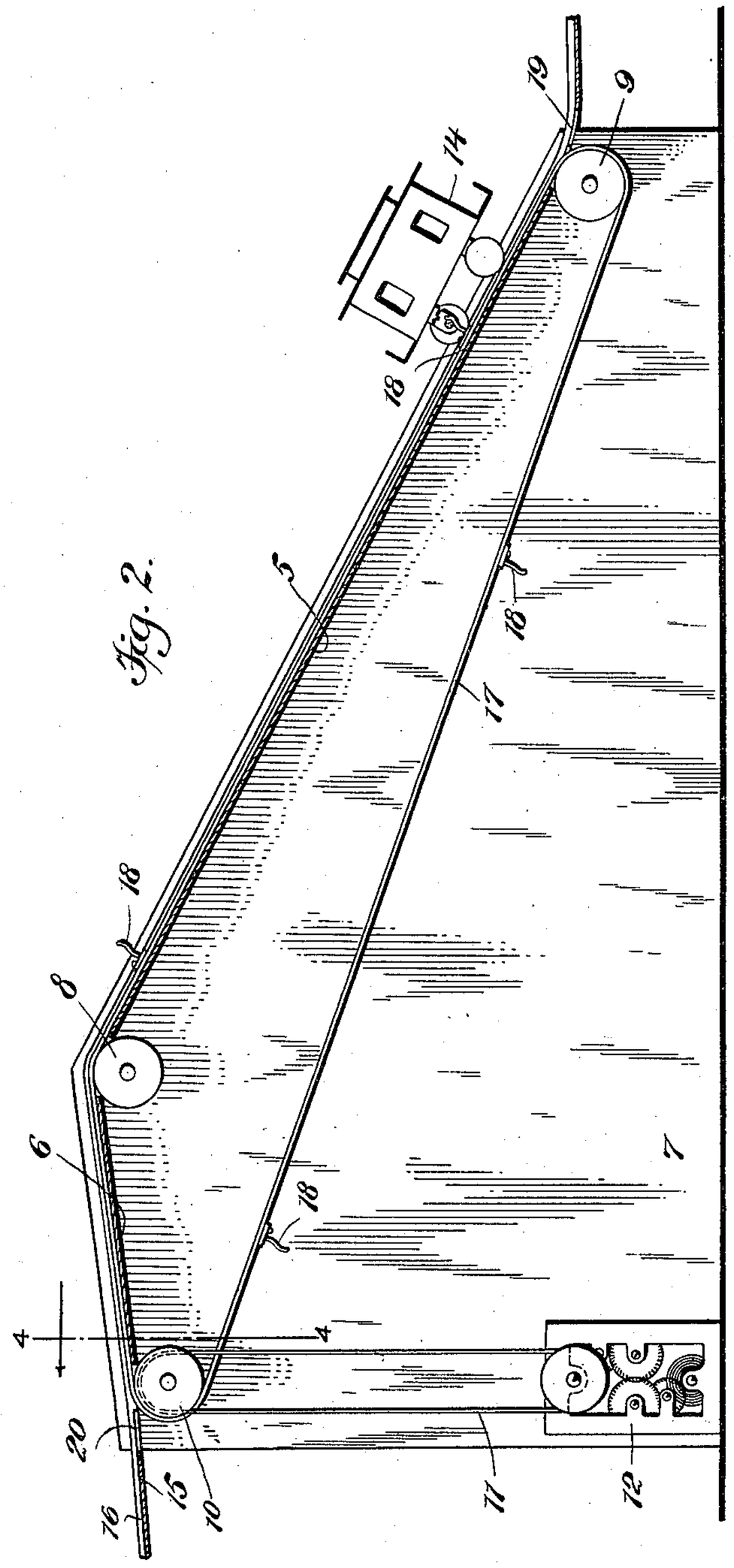
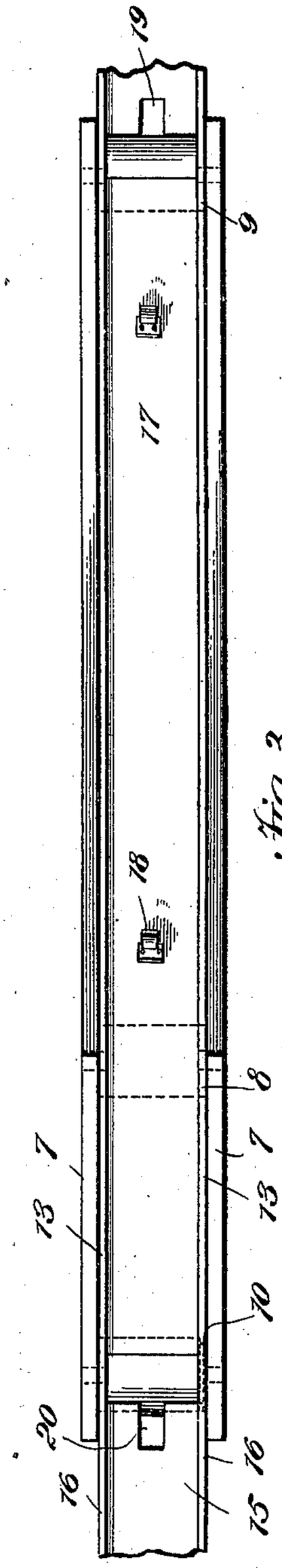


Fig. 3.



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MECHANICAL TOY.

SPECIFICATION forming part of Letters Patent No. 687,071, dated November 19, 1901.

Application filed February 2, 1901. Serial No. 45,720. (No model.)

To all whom it may concern:

Be it known that I, CHARLES R. SCHOLL, a citizen of the United States, and a resident of Reading, in the county of Berks and State of Pennsylvania, have invented a new and Improved Mechanical Toy, of which the following is a full, clear, and exact description.

This invention relates to improvements in mechanical toys; and the object is to provide a toy of simple construction in which a car or the like is propelled along a continuous track having various inclines, partly by gravity and partly by a motor.

I will describe a mechanical toy embodying my invention and then point out the novel features in the appended claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of a toy embodying my invention. Fig. 2 is a longitudinal section of a portion of the device. Fig. 3 is a plan view thereof, and Fig. 4 is an enlarged section on the line 4 4 of Fig. 2.

The device comprises a platform having an upward incline 5 and a shorter reverse incline 6. This platform is supported in a suitable frame. As here shown, it is supported between side pieces 7. Extended through an opening at the junction of the two inclines 5 and 6 of the platform is an idler-roller 8. At the lower end of the incline 5 is a roller 9 and at the lower end of the incline 6 is a roller 10. This roller 10 has a band connection 11 with a motor 12, which may be a spring, a clockwork, or other motor.

Arranged on opposite sides of the platform are tracks or rails 13, with which the wheels of a car 14 may engage. A platform 15 is arranged in a circular or spiral direction, its upper end connecting with or being a continuation of the incline 6 of the platform arranged within the frame and its lower end communicating with or being connected to the lower end of the incline 5 of the platform in said frame. On this platform 15 are rails 16.

An endless carrier-belt 17 extends around the rollers 8, 9, and 10, and the upper stretch of this carrier moves upon the upper surface of the platform-sections 5 and 6, and attached to this carrier at suitable distances apart are hooks or clutches 18, designed to engage with an axle of a car, and the platform is provided with openings 19 and 20, through which these hooks may pass.

In operation while the carrier is in motion and a hook or clutch 18 is in engagement with the axle of the car said car will be moved up the incline 5, down the incline 6, and at the end of this incline 6 the hook will be released from the car and the car will pass by gravity around the spiral incline until it again reaches the lower portion of the incline 5, when it will again be carried upward, as before stated. Therefore it will be noted that the operation of the car is practically continuous while the motor 12 is running, and it is obvious that there may be as many cars as desired.

This device as a toy will be found very amusing to children, especially as the cars may be sufficiently large to hold dolls and the like; but it is to be understood that while I have described and illustrated the device as a toy it may be made on a larger scale and the cars used for carrying passengers for amusement.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

A platform having a long upward incline and a reverse short incline, a frame on which said platform is supported, track-rails at opposite sides of the platform, an endless carrier movable over the platform, a circular spiral platform arranged outside the frame for the first-named platform, the upper end of which connects with the lower end of the short incline of the first-named platform and the lower end of which connects with the lower end of the long incline, track-rails on said spiral platform and having connection with the first-named track-rails, and a car, substantially as specified.

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

CHARLES R. SCHOLL.

Witnesses:
H. L. CHRIST,
JNO. A. HEPLER.