

No. 647,896.

Patented Apr. 17, 1900.

F. W. CRANDALL.
WHEELED TRUCK FOR TOY
(Application filed July 17, 1899.)

(No. Model.)

Fig. 1.

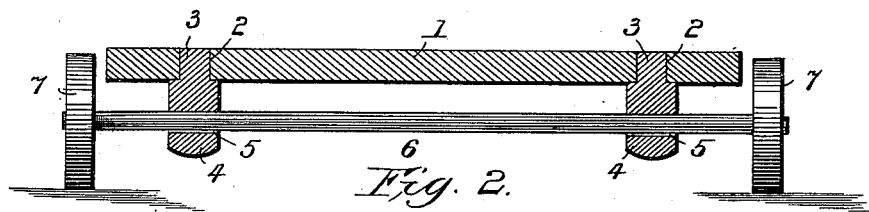
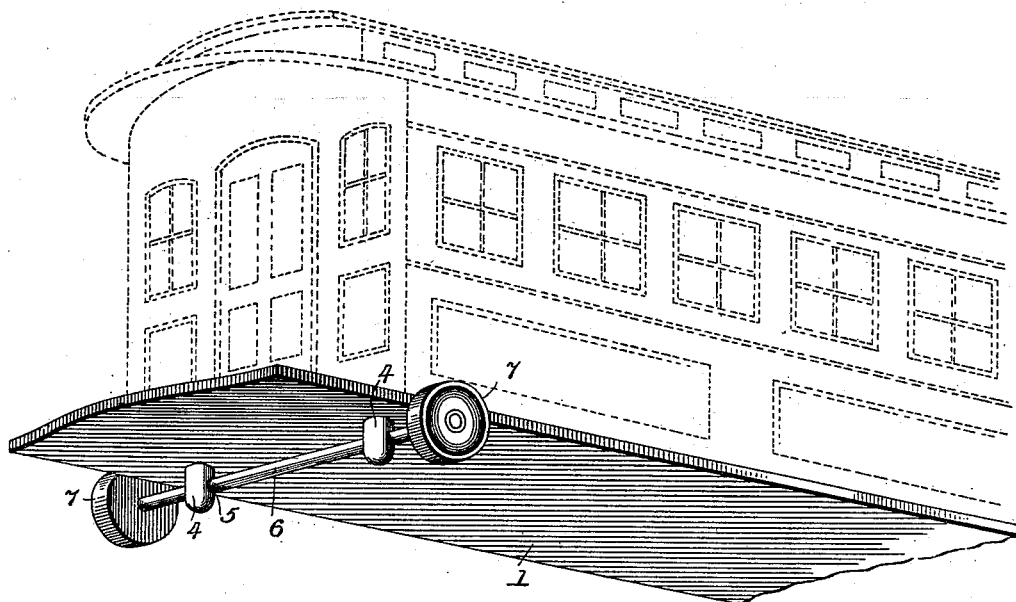


Fig. 2.

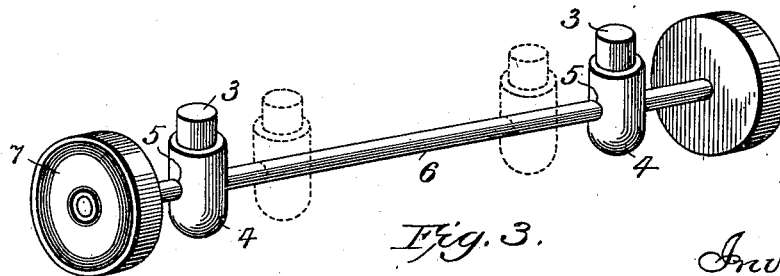


Fig. 3.

Witnesses:
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UNITED STATES PATENT OFFICE.

FRED W. CRANDALL, OF ELKLAND, PENNSYLVANIA.

WHEELED TRUCK FOR TOYS.

SPECIFICATION forming part of Letters Patent No. 647,896, dated April 17, 1900.

Application filed July 17, 1899. Serial No. 724,109. (No model.)

To all whom it may concern:

Be it known that I, FRED W. CRANDALL, a citizen of the United States, residing at Elkland, in the county of Tioga and State of Pennsylvania, have invented certain new and useful Improvements in Adjustable Wheeled Trucks for Toys, of which the following is a specification.

The present invention relates to wheeled trucks for toys of any description.

Heretofore trucks for toy boats, wagons, cars, &c., have been provided with stationary and relatively-fixed dowels or pins, generally glued in holes in the truck, adapted to be entered in properly-spaced holes provided in the bottom of the toy. The toy bottom, with its properly-spaced holes, and the truck are usually kept in unassembled condition, and should the bottom shrink or warp in any manner while being kept in stock it is impossible when assembling the toys for sale to attach the trucks without removing the pins therefrom and refitting them to the trucks to make them register with the holes in their altered position, thus incurring additional labor and expense.

My object is to obviate the foregoing annoyance and extra expense and labor and render the fitting of the trucks to the bottom an easy matter for the dealer or consumer, and this is accomplished by providing independent dowels or pins which are adjustable toward and away from each other on the axle or truck, thus permitting their rapid and easy spacing to the necessary extent and facilitating their insertion into the holes in the bottom by the person assembling the toys, where they are held by friction and whereby shrinkage, warping, &c., of the bottom are rendered immaterial.

In the accompanying drawings, Figure 1 is a bottom perspective of a portion of a toy equipped with my improved trucks; Fig. 2, a sectional view, and Fig. 3 a detail view, of the trucks, dotted lines illustrating how the dowels can be adjusted.

The present practice is to manufacture the bottom 1 of the toy in large quantities and bore circular holes in it at suitable distances apart to accurately register with the fixed dowels or pins (spaced the same distance apart as the holes) of the separately-constructed

trucks, so that the person assembling the toy can take any truck out of the stock and fit it to any bottom. As the goods are kept in stock for considerable periods of time, however, it often happens that the bottoms shrink or warp, thus altering the relative position of the holes, which renders it impossible to fit the common form of trucks to them because the fixed dowels will not register with the holes in their changed position, and to assemble the goods it is necessary to remove the dowels and refit them to the truck at a loss of time and labor.

My improvements reside in the cylindrical dowels or pins 3, which have enlarged heads 4, provided with diametrical apertures 5, in which the axle or truck 6, carrying wheels 7, is journaled. The dowels, it will be observed, are entirely independent of and disconnected from each other, so that they can be adjusted on the axle to bring them nearer or farther apart, according to the distance between the holes in the bottom. If, therefore, the bottom should shrink or warp in any manner, thus altering the position of the holes, this would be no drawback to the person assembling the goods, as the pins can be slid on the axle to the proper points to insure entry in the holes. The dowels are of such a size that they will be firmly held in the holes by friction alone, and the heads 4 fit snugly against the bottom and give strength and rigidity to the bearing they provide for the axle, as well as relieve any strain on the shanks of the pins. On account of the adjustability of the dowels or pins toward and away from each other on the axle or truck, as contradistinguished from the old form of truck having fixed dowels, shrinkage or warping of the bottom, with the incident disarrangement of the holes therein, is no drawback, as the pins can be moved and easily fitted in said holes.

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

1. In a toy, the combination with the bottom thereof having spaced holes, of a truck or axle equipped with wheels, and independent dowels or pins constituting bearings for the axle or truck and slidable thereon toward and away from each other which are fitted tightly but removably in the holes in the bot-

tom and held there by friction alone, whereby the truck is rendered adaptable for separation from the toy bottom.

2. In a toy, the combination with the bottom thereof having spaced holes, of a truck or axle equipped with wheels, and independent dowels or pins having enlarged shouldered heads constituting bearings for the axle or truck which passes loosely therethrough, said pins being slidable toward and away from

each other on the axle and having the shoulders of said heads abutting the bottom and their shanks fitted in the holes therein.

In testimony whereof I affix my signature in presence of two witnesses.

FRED W. CRANDALL.

Witnesses:

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