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M. FORCHHEIMER

1,622,636

TOY VEHICLE

Filed Nov. 24, 1926

Fig. 1.

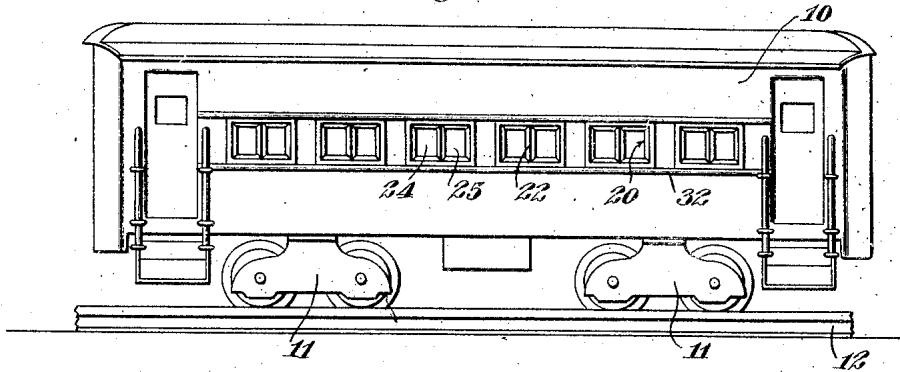


Fig. 2.

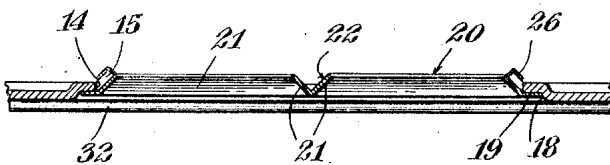
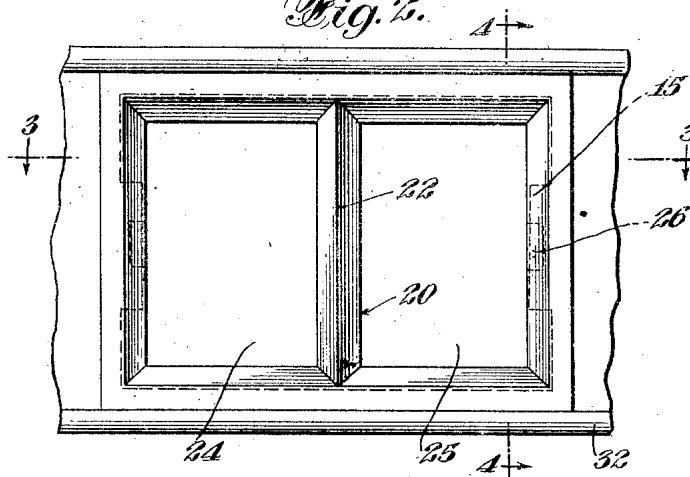


Fig. 3.

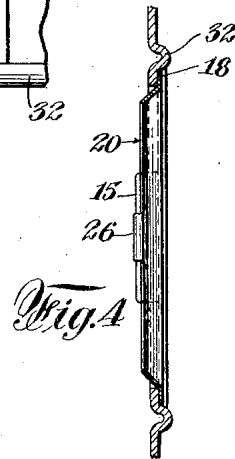


Fig. 4.

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TOY VEHICLE.

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This invention relates to toy vehicles and particularly to an improved window construction for toy cars.

In the preferred embodiment of my invention, the car body is formed of sheet metal having window openings therein, and frames for the windows, which are formed of sheet metal, cut and stamped into shape, are secured to the outside of the body at each of the window openings.

When constructed in accordance with my invention, the window frame pieces may be made of thin sheet metal and the construction of these pieces and the manner in which they are secured to the car body is such, that there is very little danger of their becoming loosened, or bent, or otherwise injured through use.

The frame pieces, which are formed with window openings somewhat smaller than the openings in the car body, are secured outside of the car body over the car body openings and hide from view the edges of the car body openings. If the frame pieces were placed behind the car body openings, very accurate positioning of the pieces would be required, because, if the frame pieces did not register exactly with the car body openings, more of the frame would be visible at one part of an opening than at other parts, that is, the car window frame, visible through the opening in the car body would not appear to be of the same width throughout. In the present arrangement with the window frame pieces over the car body openings no very accurate positioning of the frame pieces is necessary because the full width of the frame is always visible.

The means for securing the frame pieces to the car body openings comprises lugs which project from the edges of the openings in the car body, which lugs cooperate with similar lugs on the frame piece. This fastening means not only holds the frame securely in position but is so positioned that the fastening means itself is hidden from view.

The window frame will ordinarily be of a different color from the car body. The body may be painted, dipped or sprayed one color and the frame separately colored, before mounting on the car body. In practice I may color the car body and use a frame of brass, uncolored, and in this manner avoid coloring the frame and at the

same time provide a construction which has a very pleasing effect.

Other advantages and objects of my invention will appear from the following description taken in connection with the accompanying drawing wherein:

Figure 1 is a side elevation of a toy railroad car having windows constructed in accordance with one form of my invention;

Figure 2 is an enlarged detailed view of one of the windows of the car shown in Figure 1;

Figure 3 is a section on the line 3—3 of Figure 2, and,

Figure 4 is a section on the line 4—4 of Figure 2.

Referring to Figure 1, the car body 10 is supported on suitable trucks 11, adapted to run on rails 12. The body 10 is formed of sheet metal of sufficient thickness to give it the required strength and is formed along the upper part of its sides with spaced window openings 14. Lugs 15, formed integral with the metal of the car body, project from opposite sides of each opening 14 and as shown in Figure 3 these lugs are inclined inwardly from the place of the car side. The sheet metal car sides are formed, around each of the openings 14, with a seat or recessed portion shown at 18 in Figures 3 and 4. Seated in the recessed portion 18 and adapted to be held therein by the lugs 15 are window frame pieces 20 which are formed of thin sheet metal and comprise outer portions 19 which lie flush with the car sides and inner inclined or beveled portions 21 which project into or through the openings 14 in the car sides.

In the form of my invention shown in the drawing the frame piece is formed with a central strengthening member 22 which divides the space inside the frame into two window openings 24 and 25 as shown in Figure 3. The member 22 is formed of two oppositely inclined or beveled portions 21, which join at their ends the beveled portions 21 of the sides of the frame. The inclined portions 21 at the sides of the frame rest against the outer faces of the inwardly inclined lugs 15 and are themselves provided with lugs 26 that are bent around the ends of the lugs 15 so as to assist in holding the frame piece 20 in position. Upward and downward movement of the piece 20 is prevented by the upper and lower sides of the seat or recess 18, formed in part

by the ornamental beads 32, which extend along the length of the car sides immediately above and below the seats.

In practice the frames 20 can be easily and economically formed by stamping out thin sheet metal and when made of brass, they need not be otherwise colored. These frame pieces may be easily secured to the car sides and it will be seen from the manner in which they are held that there is little danger of their working loose.

Having now described my invention what I claim and desire to secure by Letters Patent is:

1. A toy car having a body formed of sheet metal and provided along its sides with spaced window openings, a window frame secured at each of said openings, each frame being formed of sheet metal having an outer flat portion which lies against the outer face of the car body and having an inner inclined portion which extends through said opening and means located behind said frame for securing said frame to the car body.

2. A toy car having a body formed of sheet metal and provided at its sides with spaced window openings, the sides of which are formed with inwardly inclined lugs, a window frame secured at each of said openings, each frame being formed of sheet metal having an outer flat portion which lies against the outer face of said car body and having an inner inclined portion which lies against said lugs and extends inwardly through said opening and is formed at its side edge with lugs which are bent over and back of said first mentioned lugs.

3. A toy car having a body formed of relatively heavy sheet metal and colored, the sides of said body being formed with a plurality of spaced window openings, a window frame secured at each of said openings, each frame being formed of relatively thin uncolored sheet brass and having an outer flat portion which lies against the outer face of said car body and an inner inclined portion which extends through said opening, and lugs on said body and frame located behind said frame for securing said frame to said body.

4. A toy car having a body formed of sheet metal and provided with a series of window openings, the metal of said body being formed with a recess extending around the edge of each opening, a window frame at each of said openings, said frame having a flat outer portion which lies against the outer face of said body and is seated in said recess and said frame also having an inner inclined portion which extends inwardly through said opening and means located behind said frame for securing said frame in place.

5. A toy car having a body formed of sheet metal and provided with a series of window openings, the metal of said body

being formed with a recess extending around the edge of each opening, a window frame at each of said openings, said frame having a flat outer portion which lies against the outer face of said body and is seated in said recess and said frame also having an inner inclined portion which extends inwardly through said opening and lugs on said frame and car body for holding said frame in position, said lugs being located behind said frame.

6. A toy car having a body formed of relatively thick sheet metal and provided with a series of window openings, the metal of said body being formed with a recess extending around the edge of each opening, a window frame formed of thin sheet metal, located at each of said openings and having a flat outer portion which lies against the outer face of said body and is seated in said recess and said frame having an inner inclined portion which extends inwardly through said opening and means located behind said frame for securing said frame in place.

7. A toy car having a body formed of relatively thick sheet metal and provided with a series of window openings, the metal of said body being formed with a recess extending around the edge of each opening, a window frame formed of thin sheet metal, located at each of said openings and having a flat outer portion which lies against the outer face of said body and is seated in said recess and said frame having an inner inclined portion which extends inwardly through said opening and lugs on said frame and car body for holding said frame in position, said lugs being located behind said frame.

8. A toy car having a body formed of relatively thin sheet metal and provided along its sides with spaced window openings, a window frame at each of said openings, said frame being formed of relatively thin sheet metal, the sides of said frame having an outer flat portion which lies in contact with the outer face of the car body and said sides having an inner inclined portion which extends into the opening in said sides and the top and bottom of said frame being joined by an integral member formed of oppositely inclined portions, which member divides the space inside said frame into two window openings and means located behind said frame for securing said frame to said car body.

9. A toy vehicle having a body formed of metal and provided with a window opening, a window frame secured at said opening and formed of sheet metal having an outer flat portion which lies against the outer face of the car body and having an inner inclined portion which extends through said opening and securing means for said frame, said

means being rigid with said body and located behind said frame and the metal of said frame being bent around said means.

10. A toy vehicle having a body formed of metal and provided with a window opening, the metal of said body being formed with a recess extending around the edge of said opening, a frame having a flat portion which lies against the outer face of said body and

is seated in said recess and said frame also having an inner inclined portion which extends inwardly through said opening and means located behind said frame for securing said frame in place. 10

Signed at New York in the county of New York and State of New York this 17th day of November, A. D. 1926. 15

MILTON FORCHHEIMER.