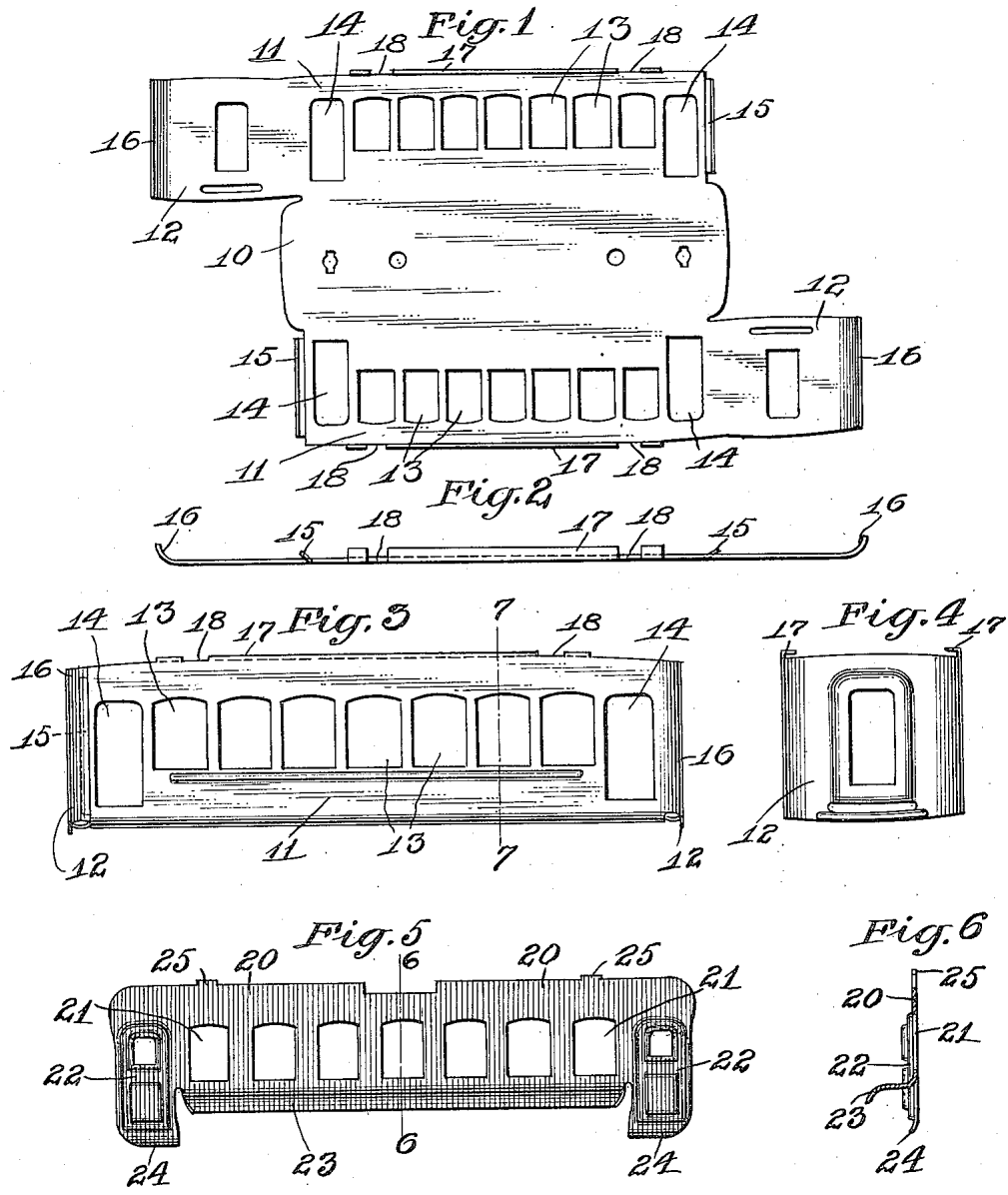


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 TOY CAR.
 APPLICATION FILED OCT. 23, 1915.

Patented July 16, 1918.
 2 SHEETS—SHEET 1.

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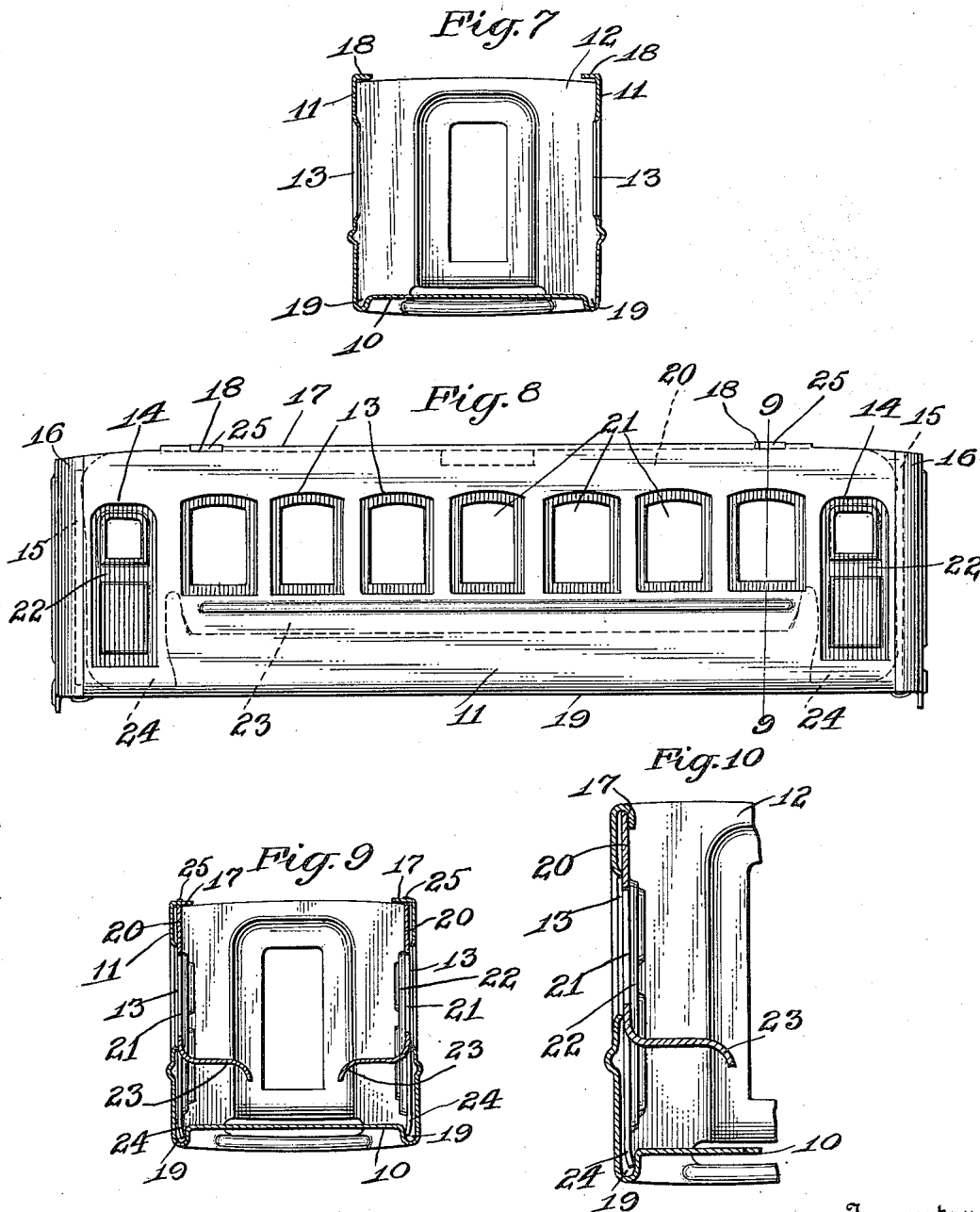


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UNITED STATES PATENT OFFICE.

JOSHUA L. COWEN, OF NEW YORK, N. Y.

TOY CAR.

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Specification of Letters Patent. Patented July 16, 1918.

Application filed October 23, 1915. Serial No. 57,410.

To all whom it may concern:

Be it known that I, JOSHUA L. COWEN, a citizen of the United States, and a resident of New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Toy Cars, of which the following is a specification.

This invention relates to toy cars.

The principal object of the invention is to provide a toy car which is inexpensive to manufacture, is attractive in appearance and durable in use.

In the manufacture of these toy car bodies hitherto, the bottom was made of a separate piece of metal soldered or otherwise secured to the sides. This involved the soldering of a long seam or else other mode of attachment which involved comparatively tedious work. Also in representing the windows, the window frames and doors had to be painted by hand, another tedious hand operation which is often imperfect by reason of the difficulty of preventing smudging.

The present invention reduces considerably the hand labor involved by a process in which the bottom is stamped out of one sheet of metal together with the sides and ends, which reduces the soldering to very short seams at the junction of the sides and ends. Also instead of painting the window frames and doors, a separate sheet of different colored metal is stamped out to register with the window and door openings at the sides and secured inside of the car in proper registration with the window and door openings by simple attaching means.

The various further and subsidiary objects and advantages will more fully appear from the following detailed description and the features of novelty will be particularly pointed out in the claims.

In the drawings illustrating this invention,

Figure 1 is a plan view, and Fig. 2 is a profile view of the blank after it is punched out in the first step of the process.

Fig. 3 is a side elevation and Fig. 4 is an end elevation of the car body as it appears after the sides and ends are bent up in the second step of the process.

Fig. 5 is an elevation of the different colored plate inserted in the interior of the car body.

Fig. 6 is a section taken along line 6—6 of Fig. 5.

Fig. 7 is an enlarged cross sectional elevation of the car body at the end of the second step of the process, the section being taken along line 7—7 of Fig. 3.

Fig. 8 is a full-size side elevation illustrating the appearance of the car body after the different colored plate is inserted in the inside.

Fig. 9 is a section taken along line 9—9 of Fig. 8.

Fig. 10 is a fragmental sectional view illustrating the mode of securing the interior plates in position.

Referring in detail to the drawings, the blank is punched out in the first operation in the form illustrated in Figs. 1 and 2. This stamping comprises the bottom portion of the car body, the side portions and the end portions, preferably formed in continuation with the side portions. The latter are formed with the window openings and the door openings. For joining the seams after the sides and ends are bent up, the sides are formed at their end edges with bent-over portions or tongues and the end portions are formed with correspondingly bent-over portions or tongues which overlap the tongues when the sides and ends are bent up in the following operation. The longitudinal edges of the side portions are also formed with bent-over flanges which are broken to form registering openings for the purpose hereinafter described. It will be understood that all of these parts are formed in one operation of the die.

Referring now to Figs. 3, 4 and 7 illustrating the form assumed in the second operation, it will be noted that when the sides and ends are bent up, the tongues and the overlap, which form only two short seams which can be very easily united by soldering or any other desired expedient. During this bending operation also a groove or channel is formed on each side at the junction of the sides and bottom for a purpose which will hereinafter appear.

It is now necessary to supply the window frame and the doors for the car body as well as the seats in the interior. For this purpose, I punch out in a single operation of the die a sheet metal plate of a different color from the car body. Preferably this plate may be enameled or oxidized sheet metal having a durable coating which is unaffected by the stamping operation which it

undergoes. This plate 20 is stamped out in one operation with the window openings 21 of a smaller size than the window openings 13 of the sides of the car body and also with door portions 22. These window openings and door portions of the plate 20 are so proportioned and arranged as to register with the window openings and door openings of the sides 11 to form different colored window frames and doors for the car body when the plates are inserted in position. Also a seat portion 23 may be formed on the plate 20 in the same operation with the other parts of this plate described.

For the purpose of engagement with the car body to be retained in position and in proper registration, tongues 24 are formed preferably below the door portions 22, these tongue portions to be positioned in the grooves 19, and further tongue portions 25 on the upper edge of the plate to register with the openings 18 in the flange 17 on the upper margin of the side portion. When the flanges 17 are subsequently bent over as illustrated in Fig. 10, the plates 20 are securely held from disengagement and retained in proper registration so as to show the different colored window frames and doors. This gives an appearance which is more realistic than the hand painted window frames and doors and is also more permanent and cheaper to make.

It will be understood that many modifications may be made within the skill of a mechanic without departing from the spirit of the invention and the scope of the appended claims.

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

1. A toy car body comprising a bottom portion and side portions integral therewith having window openings therein, and end portions extending from the opposite ends of the side portions, the vertical edges of the end portions and the adjacent side portions being formed with overlapping overturned portions secured together.

2. A toy car body comprising a bottom portion and side portions integral therewith having window openings therein, and end portions extending from the diagonally opposite ends of the side portions, the vertical edges of the end portions and the adjacent side portions being formed with overlapping overturned portions secured together.

3. A toy car body comprising side portions having window openings therein and a separate sheet of a different color within the side portions and having openings of a smaller size registering with the openings in the sides, the portions of said sheet showing through the window openings providing different colored frames for the windows.

4. A toy car body comprising a bottom portion and side portions having window openings therein and a separate sheet of a different color within the side portions and having openings of a smaller size registering with the openings in the sides, and means on the car body for securing the frame in place.

5. A toy car body comprising a bottom portion and side portions having window openings therein, there being a groove formed at the junction of the bottom and side portions, and a frame of a different color having openings corresponding to the window openings and retained in said groove.

6. A toy car body comprising a bottom portion and side portions having window openings therein, there being a groove formed at the junction of the bottom and side portions, and a frame having a seat portion therein retained in said groove.

7. A toy car body comprising a bottom portion and side portions having window openings therein, there being a groove formed at the junction of the bottom and side portions, and a frame of a different color having openings corresponding to the window openings and retained in said groove, said frame being also formed with a seat portion.

8. A toy car body comprising a bottom portion and side portions having window openings therein, there being a groove formed at the junction of the bottom and side portions, an engaging portion at the upper longitudinal edges of the sides, and a frame of a different color having openings corresponding to the window openings and retained in said groove and engaging portion.

9. A toy car body having a bottom portion and side portions, there being an engaging portion formed at the junction of said bottom and sides and another engaging portion at the upper longitudinal edges of the sides, and plates having seat portions secured in said engaging portions.

10. A toy car body comprising an integral sheet metal plate forming a bottom portion and side and end portions, there being window and door openings formed in said side portions, and a separate plate of a different color secured to the sides at the interior of the body and having similar openings therein registering with said window and door openings, the portions of said sheet showing through the window openings providing different colored frames for the windows.

11. A toy car body comprising an integral sheet metal plate forming a bottom portion and side and end portions, said side portions having window and door openings, engaging portions formed at the top and bot-

5 tom edges of the side portions at the interior of the car body, and a different colored plate secured in said engaging portions, said plate being formed with openings of a smaller size registering with said window openings, and with door portions registering with said door openings, the portions of said plate showing through the window openings and door openings providing 10 frames of different color for the windows and doors.

12. A toy car body comprising an integral sheet metal plate forming a bottom portion and side and end portions, said side 15 portions having window and door openings, engaging portions formed at the top and bottom edges of the side portions at the interior of the car body, a different colored plate secured in said engaging portions, 20 said plate being formed with openings of a smaller size registering with said window openings, with door portions registering with said door openings, and with a seat portion for the interior of the car.

25 13. A toy car body comprising an integral sheet metal plate having a bottom portion and side and end portions, said side portions having window and door openings and pro-

vided with slotted flanges at their top edges, and a different colored plate formed with 30 openings registering with said window openings and provided with tongues registering in said slots in the flanges to hold the same in position wherein the window openings thereof register with the window open- 35 ings in the side portions.

14. A toy car body comprising side portions having window openings therein, and a separate sheet having openings registering with the openings in the sides secured 40 within the body adjacent the side portions.

15. A toy car body comprising side portions having window openings therein, the upper edges of the side portions being formed with securing means, and a separate 45 sheet having openings registering with the openings in the sides disposed within the car body and secured through said securing means.

Signed at New York city, in the county 50 of New York, and State of New York, this 22nd day of October, A. D. 1915.

JOSHUA L. COWEN.

Witnesses:

MINNIE S. MILLER,
NATHAN COHEN.