

J. FALLOWS.
Manufacture of Toys.

No. 151,690.

Patented June 9, 1874.

Fig. 1.

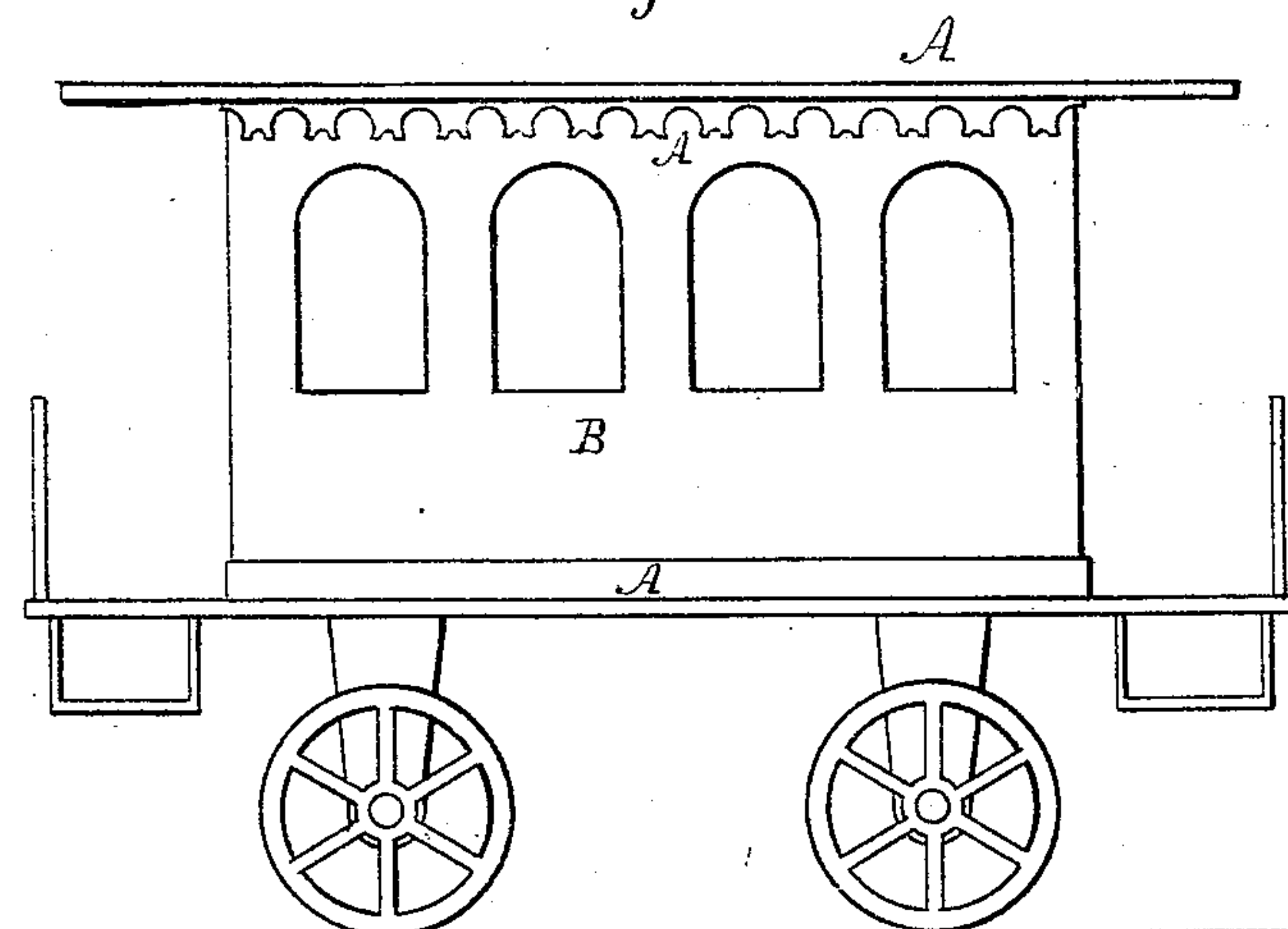


Fig. 2.

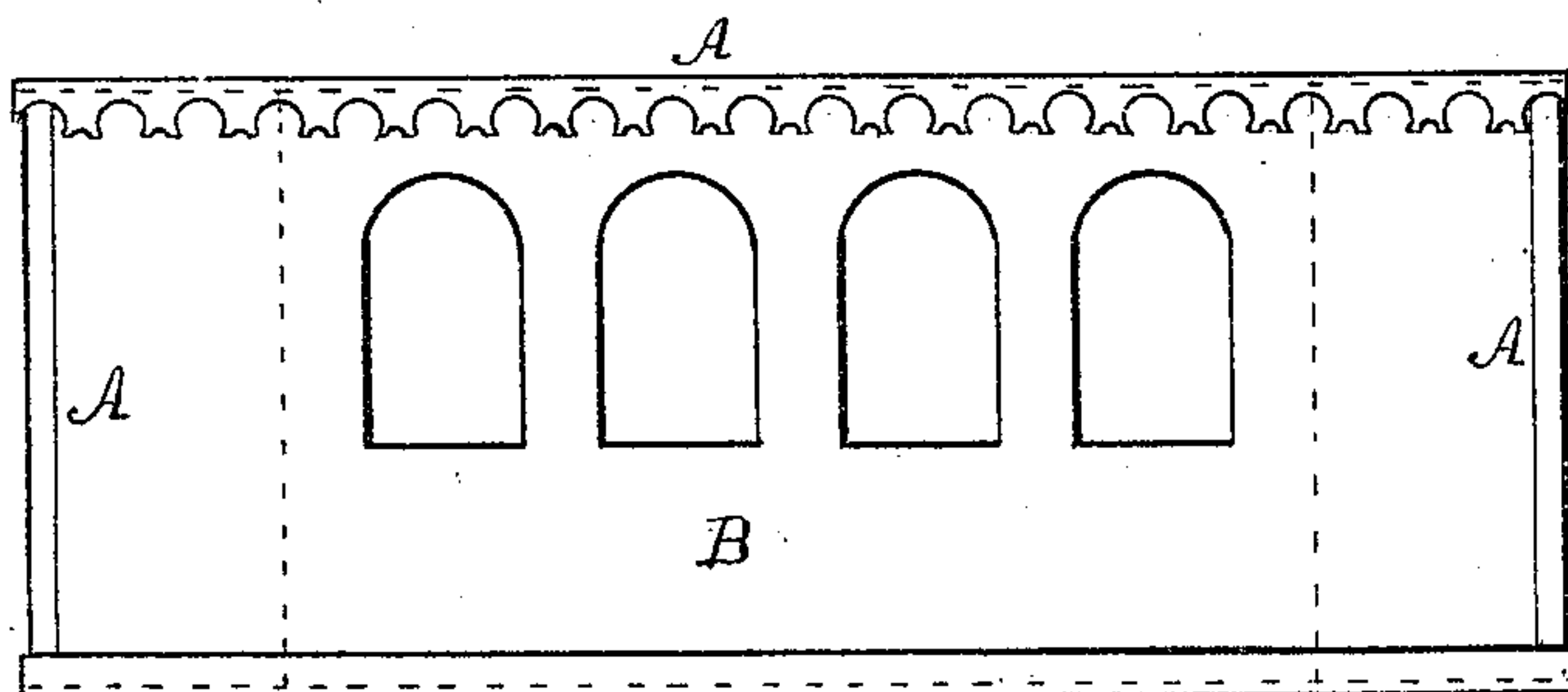


Fig. 3.

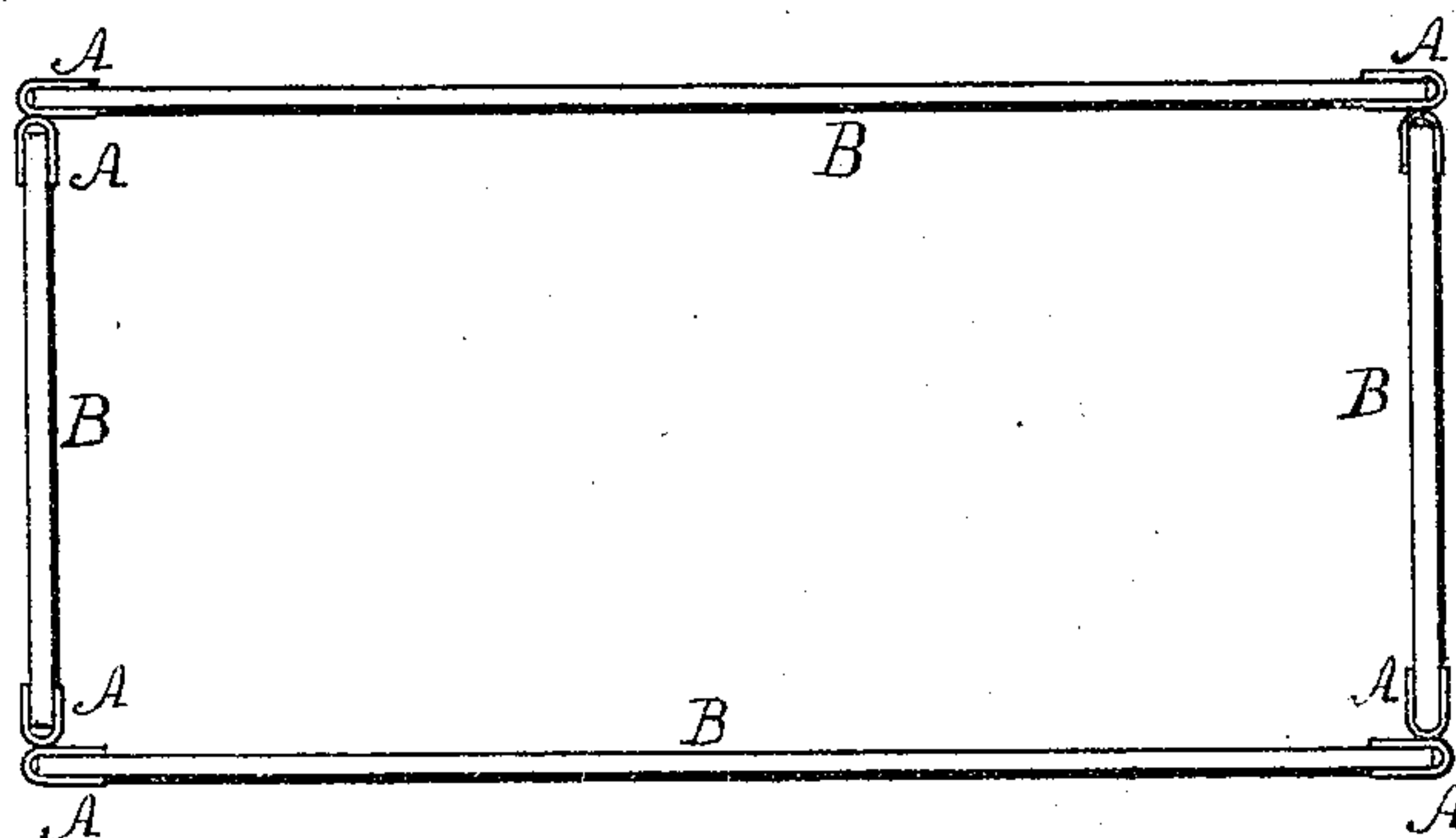
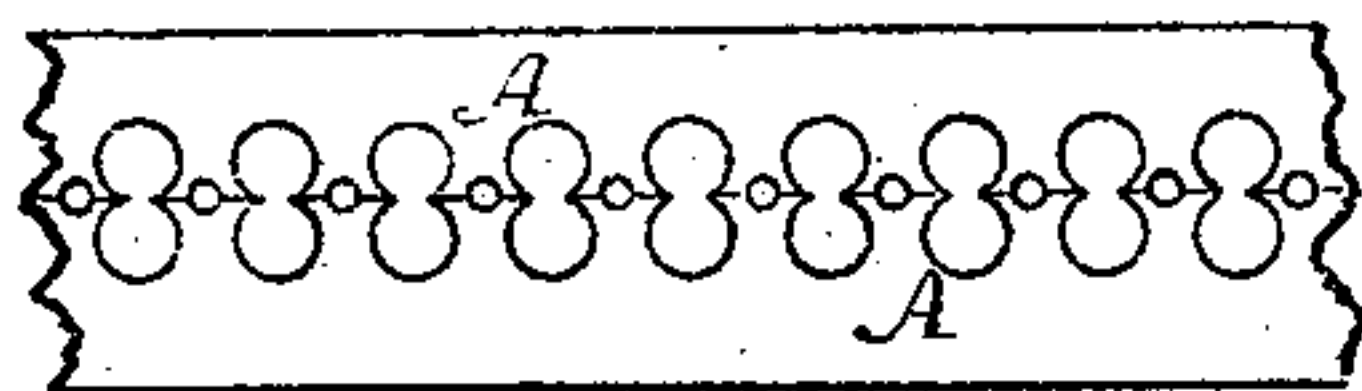


Fig. 4.



Witnesses.

Wm. Morrison.
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UNITED STATES PATENT OFFICE.

JAMES FALLOWS, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN THE MANUFACTURE OF TOYS.

Specification forming part of Letters Patent No. **151,690**, dated June 9, 1874; application filed April 16, 1874.

To all whom it may concern:

Be it known that I, JAMES FALLOWS, of the city of Philadelphia, in the State of Pennsylvania, have invented an Improvement in the Manufacture of Toys and similar articles, of which the following is a specification:

The object of my invention is twofold—first, to greatly lessen the cost of producing children's toys, and similar articles usually made of tin-plate; and, second, to lessen the weight and increase the durability of the same; and my invention consists in the attachment of thin tin-plate, sheet-brass, or other thin sheet metal to the edges of pasteboard, for the purpose of enabling me to readily solder the said boards together preparatory to using the same in the production of said toys or boxes, as will be more fully, clearly, and exactly described herein with reference to the accompanying drawings, in which—

Figure 1 is a toy car, the body of which embodies my invention. Fig. 2 is a plan view of a small sheet of pasteboard having its edges lapped with thin tin-plate. Fig. 3 is a transverse section of four small sheets of the combined tin-plate and pasteboard attached together by solder at right angles; and Fig. 4, a plan view of a strip of the thin sheet metal, of double width, perforated along its center, and to be subsequently cut apart, thus producing two strips with one side edge of each notched or recessed for ornamentation at one operation.

For toys of the ordinary size, I cut the strips A of the thin sheet-tin plate, about three-eighths or a quarter of an inch wide each, and of any desirable length, and then bend them along their mid-widths into a U shape transversely, from end to end, thus rendering them ready for application to the pasteboard. The pasteboard B is of the sort of paper-board used for book-lids by binders, and may be of different thicknesses, as the character of the toy or box to be made may require, and I cut the said pasteboard into any suitable lengths and widths, and dip them into boiled linseed-oil in which a small portion of resin has been dissolved, or, by means of a brush, coat them once with the resined oil, which soon soaks into the sur-

face of the pasteboard, and leaves it tacky. Any desired color may then be given to the surface by applying the pigment with a brush. I then cut the sheet into such sizes and shapes as may be required for the article which is intended to be made, and slip the U-bent strips of sheet metal A over the edges of the pasteboard until the curves of the bent strips come into close contact with the extreme boundary edges, respectively, of the said pasteboard, and finally compress the two opposite sides of the sheet-metal strips into close contact with the said pasteboard, and thus produce a sheet-metal edging on the pasteboard, as represented in Figs. 2 and 3. The previous coating of oil and resin, with the clamping of the sheet-metal edging A, holds the latter firmly in connection with the pasteboard B, and the curved form of the bends in A renders it exceedingly easy to hold the said edges of two panels together accurately at any required angle, and to solder them firmly by a few drops of the solder at different places along the angle inclosed by the two said panels, as represented in Fig. 3.

After the toy or box construction has been completed, it may be readily ornamented, and the sheet-metal edging lacquered, as may be desired.

Toys and fancy boxes heretofore required to be made entirely of tin-plate can be produced by my said invention at about one-half the cost of those made of tin-plate, while at the same time the elastic or springy nature of the pasteboard and its comparative lightness in weight insure greater durability, especially in such toys as the railway-car shown in Fig. 1, and many others which are subject to be roughly used by children.

I claim as my invention—

As an improvement in the manufacture of toys, a toy carriage or other article made of pasteboard pieces having their edges bound with sheet metal, soldered together, and finished, substantially as and for the purpose described.

JAMES FALLOWS.

Witnesses:

BENJ. MORISON,
WM. H. MORISON.