

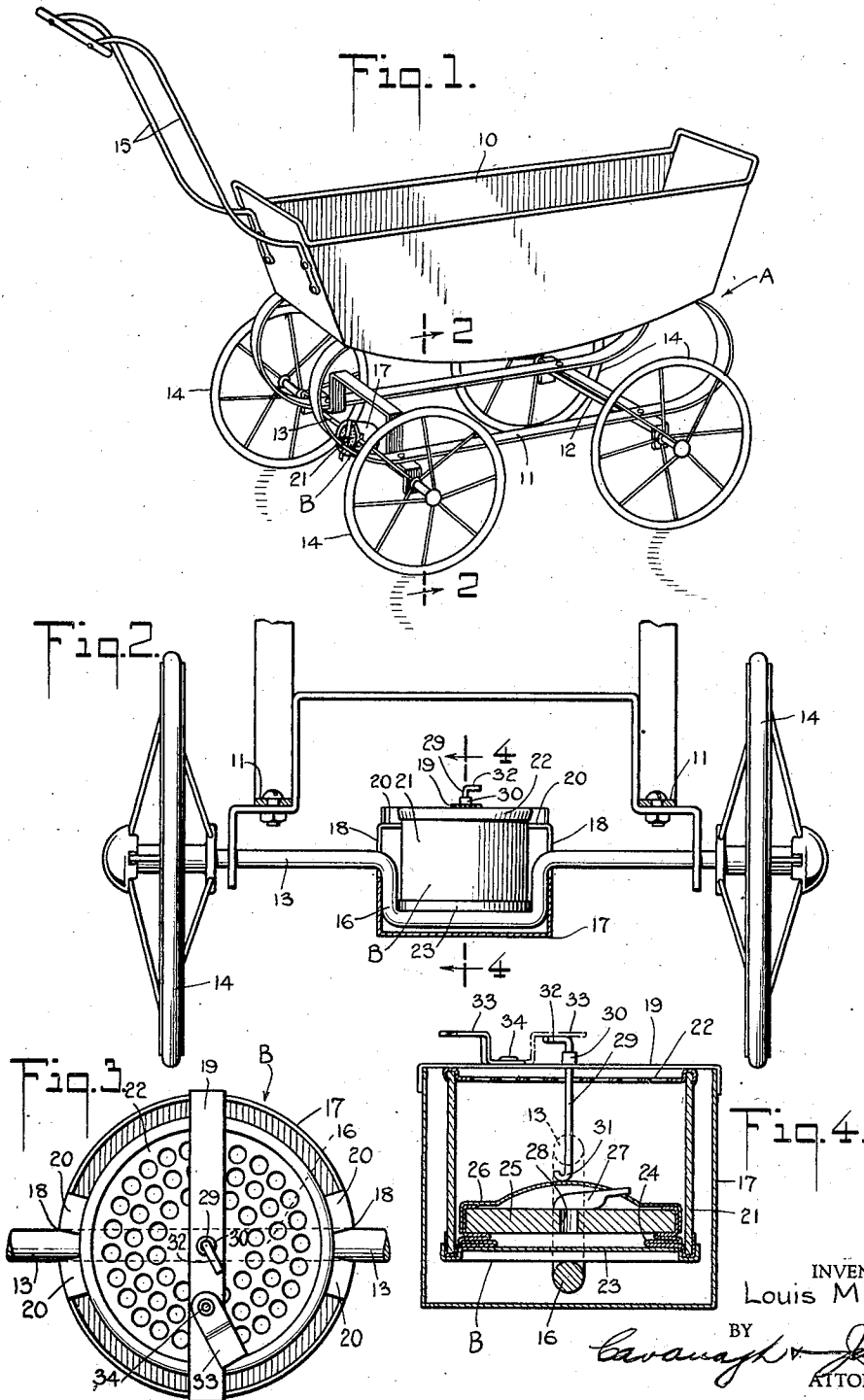
March 18, 1930.

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1,751,047

COMBINED DOLL'S CARRIAGE AND SOUND PRODUCING MEANS

Filed Jan. 28, 1928



UNITED STATES PATENT OFFICE

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COMBINED DOLL'S CARRIAGE AND SOUND-PRODUCING MEANS

Application filed January 23, 1923. Serial No. 250,153.

This invention relates to a combined doll's carriage and sound producing means.

The principal object of my invention centers about the provision of a carriage or wheeled vehicle for dolls and the like combined with a sound producing means operative for simulating the cry of an infant, the sound producing means or "crier" being associated with the doll's carriage so that a wheeled movement of the carriage results in the operation of said sound producing means and in the production of a series of intermittent cries intended for association with a doll receivable by said carriage.

A further prime object of my invention relates to the combination with a doll's carriage of a self-contained sound producing unit which is mounted on the carriage for a bodily movement and which is connected to the running wheels thereof so that a wheeled movement of the carriage produces a bodily movement and operation of said sound producing means.

A still further prime object of the invention resides in the provision of a combined doll's carriage and voice producing means or "crier" embodying means which may be set by the child at will for rendering the sound producing means operative or inoperative, so that the carriage may be wheeled with or without the production of a voice simulating sound, to suit the playing proclivities of the child.

To the accomplishment of the foregoing and such other objects as will hereinafter appear, my invention consists in the elements and their relation one to the other, as hereinafter more particularly described and sought to be defined in the claims, reference being had to the accompanying drawings which show the preferred embodiment of my invention, and in which:

Fig. 1 is a perspective view of the combined doll's carriage and doll's "crier" of my invention,

Fig. 2 is a view thereof taken on an enlarged scale in cross section in the plane of the line 2—2, Fig. 1,

Fig. 3 is a plan view of the sound pro-

ducing means on a still further enlarged scale, and

Fig. 4 is a view thereof taken in cross section in the plane of the line 4—4, Fig. 2.

Referring now more in detail to the drawings, I show a preferred embodiment of my invention as comprising a wheeled vehicle or carriage generally designated as A and a sound producing means generally designated as B mounted for a bodily movement on the carriage A and operated by a wheeled movement of the carriage for producing a simulated crying of a young infant or other appropriate sound to be associated with a doll or similar manikin receivable by said carriage A.

The carriage A may be of any standard design or construction and comprises a body 10 for receiving a doll, a frame generally designated as 11 for resiliently suspending or supporting the carriage 10, the said frame including the front and rear axles 12 and 13 respectively on which are journaled the front and rear wheels collectively designated as 14, 14. As usual, the carriage is provided with a push and pull handle frame 15.

The sound producing means B comprises a self-contained unit mounted on the carriage A so that a wheeled movement of the carriage produces a bodily and operative movement of the sound producing unit. In one of the preferred constructions the self-contained sound producing unit B is mounted directly on so as to be rotatable with one of the axles of the carriage and preferably on the rear axle 13 so as to be readily accessible to the playing child. This sound producing unit B is preferably fixed to the axle 13 by providing said axle with a U-shaped bend 16 arranged preferably medially thereof, which bend forms a seat for the sound producing unit B. The unit B is preferably encased in an outer enclosure 17 forming a holder for the sound producing unit, which enclosure is notched at opposite sides 18, 18 for receiving the axle 13; and the said casing or enclosure 17 is provided at its top with a transverse strap 19 which is active for holding the unit B in seated position. If desired, parts such as 20, 20 of the side wall of said casing or en-

closure 17 may be inturned for supporting engagement with the outside wall of said sound producing unit B, as clearly shown, for example, in Figs. 2 and 3 of the drawings.

5 The sound producing unit B is preferably of the type used in the art for producing a simulated crying of an infant and known as a "mama voice" or "crier". In accordance with an approved form of design, such crier
10 comprises a tubular casing having a side wall 21 made, for example, of ordinary cardboard mailing tube, a perforate sheet metal wall 22 at one end thereof and an imperforate sheet metal wall 23 at the other end thereof. The
15 sheet metal wall 23 defines a cover for the casing 21 and also forms an airtight cover for one end of a collapsible bellows bag 24 which may be made of a rubberized fabric or the like, the other end of the bellows bag
20 being closed by a weighted member 25 and an outer cover section 26, the said outer cover section 26 being clamped onto the end of the bellows bag for affixing the latter onto the weight 25, as clearly shown, for example, in
25 Fig. 4 of the drawings. A sound producing element in the form of a reed 27 is provided, and this reed is preferably attached to the weight 25 and communicates by means of a port 28 in the weight 25 with the bellows
30 chamber, the said reed extending through an orifice in the outer cover section 26, as clearly shown in Fig. 4 of the drawings.

By means of this recited construction it will be apparent that a wheeled movement
35 imparted to the carriage A results in the rotation of the sound producing unit B; and this rotation effects an oscillating movement of the weight 25 in the casing 21 of the sound producing unit, the movement of the weight
40 causing an alternate distending and collapsing of the bellows bag 24 and a consequent production of a series of intermittent sounds or cries simulating the voice of a young infant. By this means, therefore, the playing
45 child, by imparting either a back and forth movement to the carriage A or a continuous movement of the carriage in either direction, in simulation of a mother moving a carriage to induce a baby to sleep, causes the desired
50 operational movements of the sound producing means.

It is desired to control the operation of the sound producing means B so that the same may be rendered operative or inoperative at
55 will, thus permitting the child to move the carriage without effecting the operation of the sound producing unit. This I accomplish by providing a switch means which may be readily set or controlled by the child, such
60 switch means comprising a rod 29 freely movable in the perforate cover 22 of the sound unit B, as well as in an apertured stud 30 in the strap 19, the said rod having a bottom 31 arranged so as to engage the cover 26
65 of the bellows apparatus and having a top

finger 32 which is adapted to be engaged by an arm 33 which is swivelly mounted as at 34 on the strap 19. The arm 33 is movable from the full line position shown in Figs. 3 and 4 of the drawings to the dotted line position
70 shown in Fig. 4 of the drawings; and when said arm 33 is in the dotted line position it is caused to engage the top finger 32 of the rod 29, as clearly shown in Fig. 4 of the drawings, this engagement preventing the weight
75 controlled or operated sound producing means from moving when the unit is rotated. Movement of the switch member 33 to the full line position, however, frees the rod 29 and consequently permits a gravitational
80 movement of the weight 25 in response to the bodily or rotating movement of the sound producing unit B.

The manner of making and operating the combined carriage and sound producing apparatus of my present invention will, in the main, be fully apparent from the above detailed description thereof. It will be further
85 apparent that I have provided a combined carriage and "mama voice" or "crier" unit designed so that standard "criers" may be readily mounted on carriages of standard construction to produce an effective and easily
90 workable combination. It will be further seen that the "crier" unit is mounted for quick and convenient accessibility and is provided with means which may be operated in a facile way by the child for controlling the operation of the "crier" at will, the sound producing means being rendered operative or inoperative to suit the requirements or desires of service.
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It will also be apparent that while I have shown and described my invention in the preferred form, many changes and modifications may be made in the structure disclosed without departing from the spirit of the invention, defined in the following claims.
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I claim:

1. In combination, a doll's carriage comprising a doll receiving body and a frame therefor including running wheels; and a doll crier comprising a self-contained sound producing unit mounted for rotation on said carriage and rotated by a wheeled movement
110 of said carriage, said sound producing unit comprising a casing, a bellows therein, a reed associated therewith, a weight movable in said casing and operating the bellows to sound the reed, the mounting of said sound producing unit on the carriage being such that rotation thereof effects an oscillating movement of said weight in said casing to produce a series of intermittent cries upon wheeled movement of said carriage.
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2. In combination, a doll's carriage comprising a body and a doll receiving body and a frame therefor including running wheels; and a doll crier comprising a self-contained sound producing unit mounted for bodily
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movement on an axle of said carriage and rotated by a wheeled movement of said carriage, said self-contained sound producing unit comprising a casing and sound producing means all contained within said casing, the mounting of said sound producing unit on the axle of said carriage being such that a rotatable movement imparted thereto by a wheeled movement of the carriage is effective for operating the sound producing means thereof.

3. In combination, a doll's carriage comprising a doll receiving body and a frame therefor including running wheels; and a doll crier comprising a self-contained sound producing unit mounted for rotation on said carriage and rotated by a wheeled movement of said carriage, said self-contained sound producing unit comprising a casing and sound producing means all contained within said casing, the mounting of said sound producing unit on the carriage being such that a rotation imparted thereto by a wheeled movement of the carriage is effective for operating the sound producing means thereof.

4. In combination, a doll's carriage comprising a doll receiving body and a frame therefor including running wheels; and a doll crier comprising a self contained sound producing unit mounted for rotation on said carriage and rotated by a wheeled movement of said carriage, said sound producing unit comprising a casing, a bellows therein, a reed associated therewith, a weight movable in said casing and operating the bellows to sound the reed, the mounting of said sound producing unit on the carriage being such that rotation thereof effects an oscillating movement of said weight in said casing to produce a series of intermittent cries upon wheeled movement of said carriage; and a switch means for said weight to render the sound producing unit operative or inoperative at will.

5. In combination, a carriage comprising a body and a frame therefor including running wheels; and a crier comprising a self-contained sound producing unit mounted for bodily movement on and relatively to the frame of said carriage and operated by a wheeled movement of said carriage, said self-contained sound producing unit comprising a casing and sound producing means all contained within said casing, the mounting of said sound producing unit on the carriage being such that a bodily movement imparted thereto by a wheeled movement of the carriage is effective for operating the sound producing means thereof; and means for rendering said sound producing unit operative or inoperative at will.

6. In combination, a doll's carriage comprising a doll receiving body and a frame therefor including running wheels; and a doll crier comprising a self-contained sound

producing unit mounted for bodily movement on and relatively to the frame of said carriage and operated by a wheeled movement of said carriage, said self-contained sound producing unit comprising a casing and sound producing means all contained within said casing, the mounting of said sound producing unit on the carriage being such that a bodily movement imparted thereto by a wheeled movement of the carriage is effective for operating the sound producing means thereof; and means carried by said casing settable at will for rendering said sound producing means operative or inoperative.

7. In combination, a carriage comprising a body and a frame therefor including an axle and running wheels thereon; and a crier comprising a self-contained sound producing unit mounted on said axle for rotation therewith, said sound producing unit comprising a casing, a bellows therein, a reed associated therewith, a weight movable in said casing and operating the bellows to sound the reed, the mounting of said sound producing unit on the axle being such that rotation thereof effects an oscillating movement of said weight in said casing to produce a series of intermittent cries; and a device carried by said casing and operative on said weight to stop or permit an operative movement thereof.

8. In combination, a carriage comprising a body and a frame therefor including running wheels; and a crier comprising a self-contained sound producing unit mounted for bodily movement on and relatively to said carriage and operated by a wheeled movement of said carriage, said sound producing unit including a weight operated sounding device, the mounting of said sound producing unit on the carriage being such that a bodily movement thereof effects a movement of said weight to produce a series of intermittent cries upon wheeled movement of said carriage; and a means for rendering said weight operated device inoperative.

Signed at New York in the county of New York and State of New York this 12th day of January, A. D. 1928.

LOUIS MARX.