

J. FORD.
 CONVERTIBLE PERAMBULATOR.
 APPLICATION FILED MAY 13, 1908.

957,874.

Patented May 17, 1910.

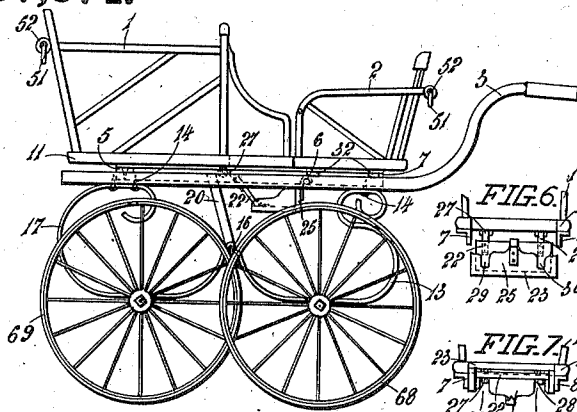


FIG. 1.

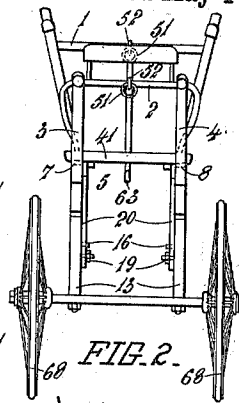


FIG. 2.

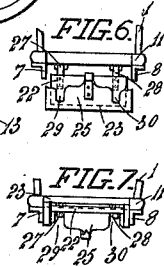


FIG. 6.

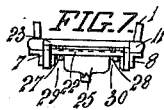


FIG. 7.

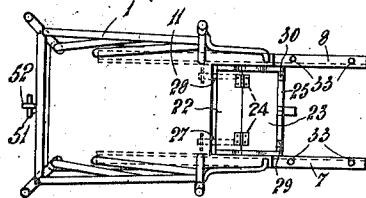


FIG. 3.

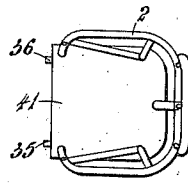


FIG. 4.

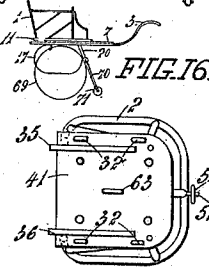


FIG. 5.

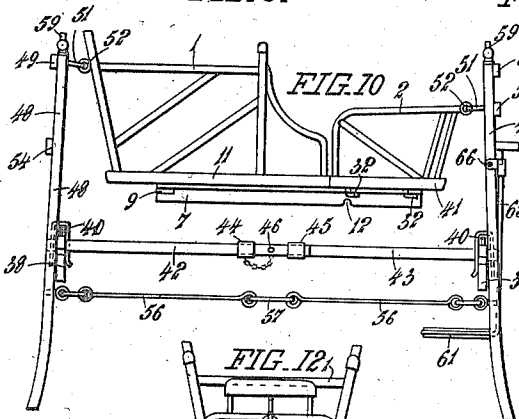


FIG. 10.

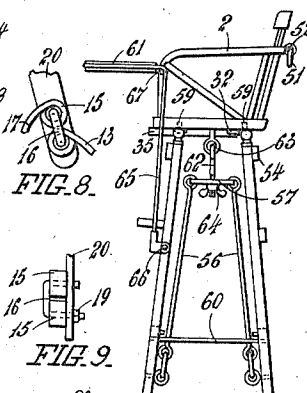


FIG. 8.

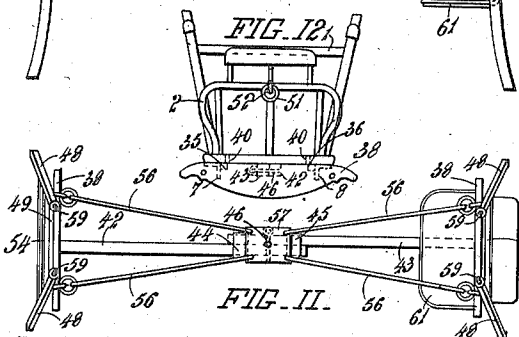


FIG. 12.

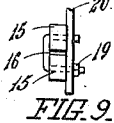


FIG. 9.

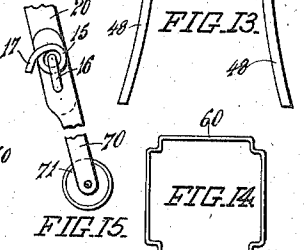


FIG. 13.

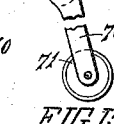


FIG. 15.



FIG. 14.

Witnesses.

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UNITED STATES PATENT OFFICE.

JOSEPH FORD, OF DUNEDIN, NEW ZEALAND.

CONVERTIBLE PERAMBULATOR.

957,874.

Specification of Letters Patent.

Patented May 17, 1910.

Application filed May 13, 1908. Serial No. 432,754.

To all whom it may concern:

Be it known that I, JOSEPH FORD, a subject of His Majesty the King of Great Britain and Ireland, residing at 51 St. Andrew street, Dunedin, in the Provincial District of Otago, in the Dominion of New Zealand, have invented certain new and useful Improvements in Convertible Perambulators, of which the following is a specification.

The invention relates to perambulators which are constructed so as to be readily convertible into other articles.

In this invention a perambulator has a body part which is mounted upon four wheels, and provided with hand shafts, and means is provided whereby the upper part of the perambulator may be used as a go-cart, or as a cradle, a swing cot, or as a child's chair.

The drawing illustrates the invention and will be referred to for the purposes of a detailed description.

Figure 1 is a side elevation, and Fig. 2 an end elevation of a perambulator, Fig. 3 is a plan of a perambulator body, Fig. 4 a plan, and Fig. 5 an inverted plan of a baby-chair, Fig. 6 an end elevation of a perambulator boot opened out, Fig. 7 a similar elevation showing the boot folded up, Fig. 8 is a side elevation, and Fig. 9 an end elevation of a spring fastening, Fig. 10 a side elevation of the perambulator body arranged as a swing cot, Fig. 11 a plan of the under gear of the swing-cot, Fig. 12 an end elevation of the upper part arranged as a cradle, Fig. 13 a side elevation of the baby-chair arranged as a child's seat, Fig. 14 a plan of a spreader, Fig. 15 a side elevation of a spring fastening, Fig. 16 is a diagrammatic elevation of the parts arranged as a go-cart.

The upper part of the perambulator consists of two parts, a body 1 and a baby-chair 2, and it, the aforesaid upper part of the perambulator, is mounted upon the hand shafts 3 and 4 by means of the following construction; bar 5 of rectangular shape in cross section connects said shafts near their forward end and bar 6 circular in cross section connects said shafts near the rear end of the running gear. The bottom of the upper part of the perambulator is provided with iron or steel angles 7 and 8 (see Fig. 10) in which are formed slots 9 and notches

12—said slots 9 being adapted to engage bar 5 and said notches 12 the bar 6 thus insuring a firm attachment of the two parts of the perambulator.

A pair of rear springs 13 is attached to the shafts by wood screws 14 or other convenient means, and at their other ends are formed into eyes 15, (see Figs. 8 and 9), adapted to be engaged by shackles 16 and a pair of forward springs 17 are similarly attached to the shafts and to the lower members of the shackles 16, which are secured by nuts 19 to stay bars 20 depending from the shafts.

The boot, (see Figs. 1, 3, 6 and 7), comprises a back 22, a bottom 23 attached by hinges 24 to the back, and an end 25 secured to the bottom 23. The back is attached to the bottom 11 of the body 1 by hinges 27 and 28, and the end 25 has slots 29 and 30 to admit the hinges 27 and 28 when the boot is folded up as shown in Fig. 7. These hinges 27 and 28 are allowed only a certain amount of play, that is they may turn to a certain position but no farther, and the two edges of the board composing the back 22 and bottom 23 in turn bind when the bottom has been turned to reach a predetermined position, thus it will be seen that the boot when unfolded is held in a predetermined position without the aid of any additional support by the battens 35 and 36.

Hooks 32 project from the bottom of the baby-chair and by passing these hooks into holes 33 provided in the angles 7 and 8, the baby-chair is secured in position. Battens 35 and 36 project beyond the bottom of the baby-chair and form a support for one end of the boot when folded. The body 1, the baby-chair 2, and folded boot together form a cot, which may be mounted on rockers 38 as shown in Fig. 12 and held in position by pins 40 projecting from the rockers and fitting into holes in the bottom 11 of the body and the bottom 41 of the baby-chair. These said rockers are united together by bars 42 and 43, each of which has a socket 44 and 45 through which the other bar may slide. The bars are held in their extended position by a pin 46 passing through both bars, and in this position the rockers and bars form a spreader for four standards 48, (see Fig. 10), to crossbars 49 and 50 of which, the cot is suspended by links 51 and eyes 52. The standards are united together

by crossbars 54, the rockers 38, and four tie-rods 56, which are linked to a central plate 57.

Fig. 13 shows the baby-chair mounted upon the ends of the standards 48, pins 59 integral with the standards entering holes in the bottom 41 provided for that purpose. The spreader 60 in this case consists of an iron frame recessed at its four corners so that it will fit against the standards. The stay rods 56 are raised, and a hook bolt 62 passing through the plate 57 engages an eyebolt 63 secured to the bottom 41, the parts being held together by tightening a thumb nut 64 below the said plate. A table 61 hinged by rods 65 and pin 66 to the standards may be raised as shown in Fig. 13, and held by a rod 67 passing through the arms of the chair. The rear pair of wheels 68 and their springs 13 may be removed from the shackle 16 and from the shafts, the front pair of wheels 69 being retained, and the baby-chair removed, to form a go-cart. I prefer to use legs 70, (see Fig. 15), with the go-cart secured to the stay bar 20 by the shackle 16, and I provide a small wheel 71 pivoted upon the end of the leg 70.

What I do claim and desire to secure by Letters Patent of the United States is:—

1. In a convertible perambulator, the combination with a body, of slotted and notched metal angles secured to the said body, and hand shafts having a crossbar and rod adapted to fit the slots and notches of the angles, substantially as set forth.

2. In a perambulator, the combination with a body of metal angles, secured to said body, a baby-chair adapted to be carried upon the angles, and hooks upon the bottom of the chair fitting into holes in the angles, substantially as set forth.

3. In a perambulator, the combination

with a body and baby-chair, of metal angles supporting the said body and chair, a foldable boot hinged to the body, and battens upon the chair supporting the boot when folded, substantially as set forth.

4. The combination, with a perambulator body, of metal angles secured to the said body, a baby-chair secured to the said angles, standards to which the body and chair are suspended, a spreader keeping the standards at proper distances apart, and tie-rods uniting the standards together, substantially as set forth.

5. The combination with a baby-chair of a perambulator, of standards having pins at their upper ends adapted to pass into holes in the bottom of the said baby-chair, a frame like spreader having recessed corners to fit against the standards, tie-rods attached at one end to the standards, a plate to which the other ends of the tie-rods are attached, a hook bolt passing through the plate and attached to the baby-chair, and a thumb nut on the hook bolt and below the plate, substantially as set forth.

6. In a perambulator, in combination with hand shafts, of a pair of springs at the rear of the vehicle, another pair of springs at the front of the vehicle, a pair of wheels attached to each pair of springs, the said springs being attached at one end to the shafts, a pair of stay bars depending from the shafts, shackles secured to the stay bars and to which the other ends of the springs are attached, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two witnesses.

JOSEPH FORD.

Witnesses:

CHAS. BAKER,
SAMUEL PHILIP MIRAMS.