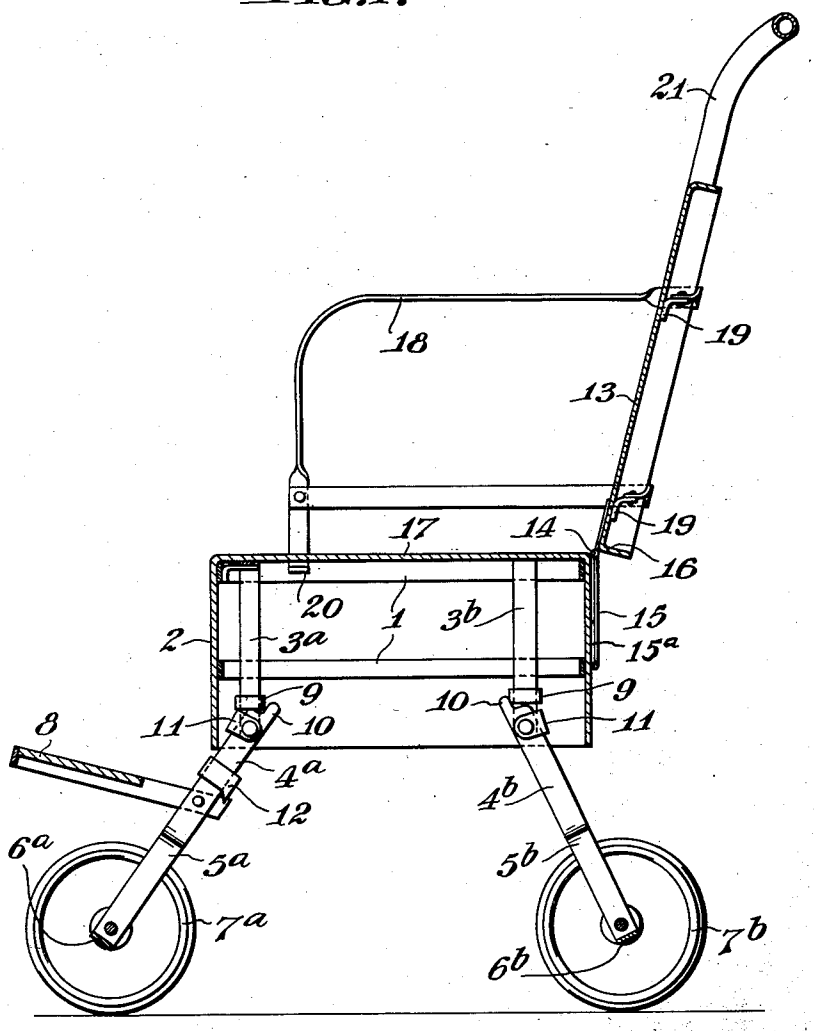
May 7, 1935. M. L. BERNON 2,000,875

CHILD'S FOLDING PUSH CHAIR

Filed Feb. 20, 1933 3 Sheets-Sheet 1

FIG. 1.



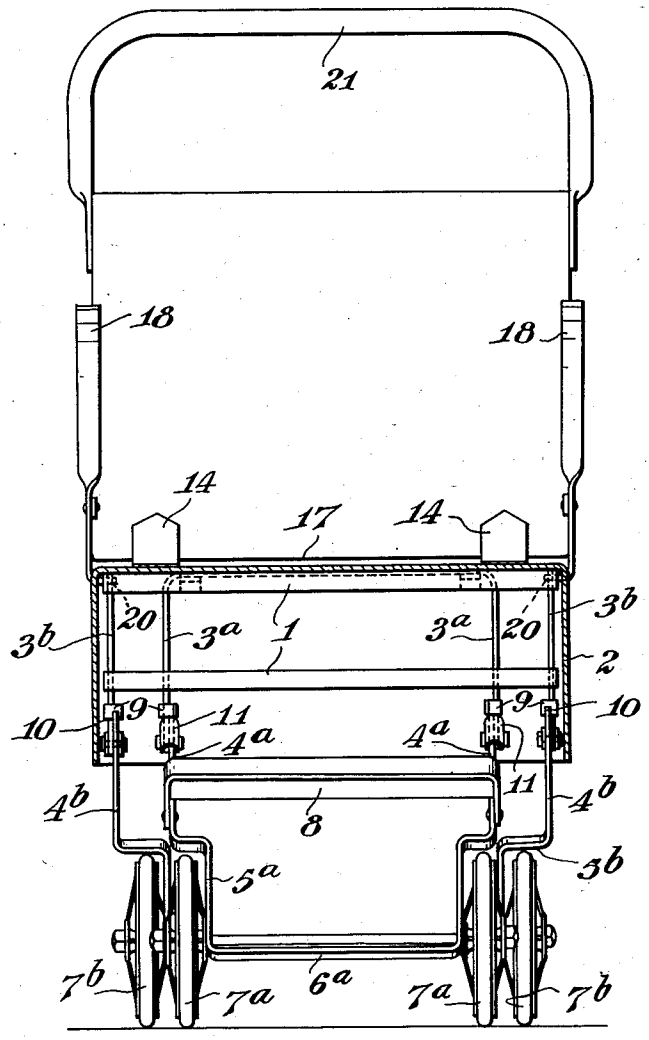
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CHILD'S FOLDING PUSH CHAIR

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FIG. 2.



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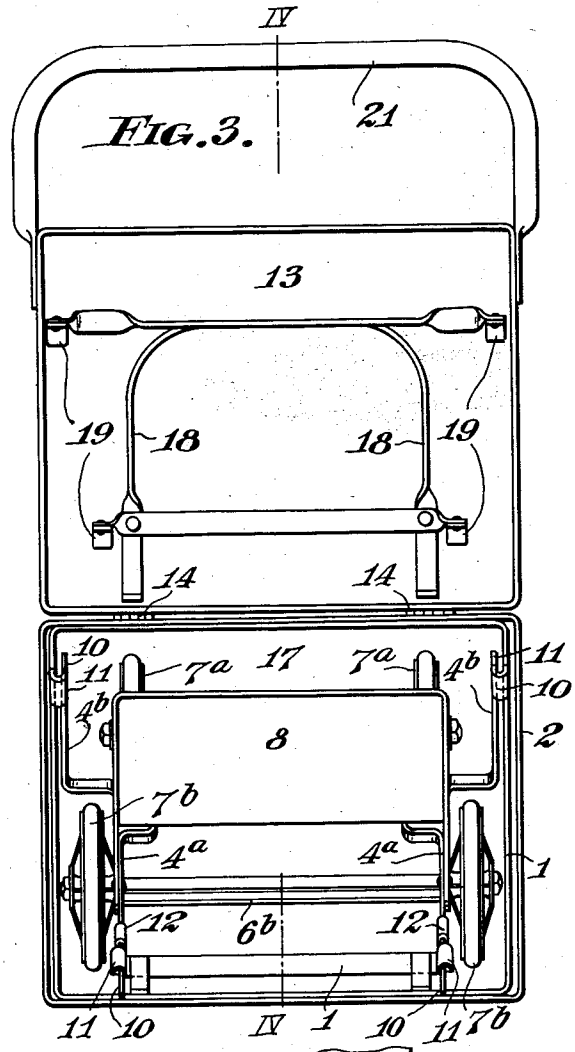


FIG. 3.

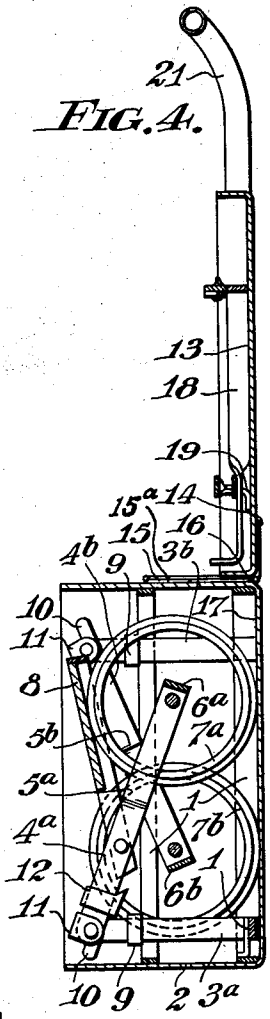


FIG. 4.

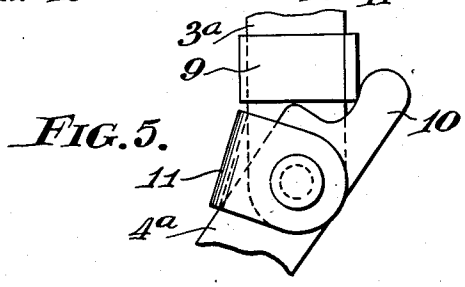


FIG. 5.



FIG. 6.

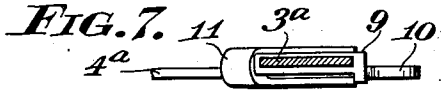


FIG. 7.

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UNITED STATES PATENT OFFICE

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CHILD'S FOLDING PUSH-CHAIR

Maurice Louis Bernon, Westbourne Grove, England, assignor to The B. W. S. Company Limited, Ealing, London, England

Application February 20, 1933, Serial No. 657,688
In Great Britain October 24, 1932

4 Claims. (Cl. 280—37)

This invention relates to a new or improved child's folding push-chair and has for its object the provision of a push-chair, parts of which are constituted by the body and lid of an attaché case so that the components of the push-chair (that is, the wheels, the foot and arm rests and if desired the handle also) may be folded so as to be accommodated completely within the attaché case when closed. A characteristic feature of the invention is that the attaché case body and lid are not stressed in any way during use, the whole of the strain imposed by the wheeling of the chair and the child's weight being borne by the metal components of the chair which interengage one with another when erected to form a rigid structure.

Broadly, the invention provides a child's folding push-chair wherein the main framework of the chair is normally accommodated within an attaché case and has pivotally connected thereto sub-structures carrying front and rear wheels which are adapted when the open attaché case is inverted to drop out of the case interior into the working position. Means may be provided for automatically locking the wheels in the working position. The lid of the attaché case in which the main framework is accommodated is constructed for use as a footrest. The chair is provided with folding armrests normally accommodated within the attaché case lid and adapted to be swung into the position of use alongside the inverted case body, and with a footrest pivotally mounted on the front wheel substructure. The handle for pushing the chair during use may be foldable so as to be housed with the attaché case lid when the chair is folded or may be attached to the lid exterior for use when pushing the chair and for carrying the closed case.

An embodiment of the invention is illustrated in the accompanying drawings, wherein

Figures 1 and 2 are side sectional elevation and front view respectively of the erected push-chair.

Figure 3 is a plan of the attaché case with opened lid showing the push-chair components folded therein prior to closing the case,

Figure 4 is a transverse sectional view on line IV, IV, Figure 3, and

Figures 5, 6 and 7 are side, front and plan views respectively of a device for locking the unfolded wheel sub-structure in the working position.

In the embodiment illustrated a main metal frame work 1, which is substantially square in plan, is mounted within the body 2 of an attaché case, the frame 1 having four outwardly extending legs 3^a, 3^b arranged in front and rear pairs. To the front and rear pairs of legs 3^a, 3^b, are pivotally connected the side limbs 4^a, 4^b, of two substantially U-shaped members 5^a, 5^b, each of which carried at opposite ends of the flat base 6^a, 6^b of the U a rubber tyred wheel 7^a, 7^b of suitable size. The U-members 5^a, 5^b have cranked or bent limbs 4^a, 4^b to facilitate accommodation thereof, together with their wheels 7^a, 7^b within the body 2 of the attaché case (see especially Figure 3). The rear wheel U-member 5^b is adapted to be folded into the case 2 first, with the front wheel U-member 5^a above it in order to allow a footrest 8, pivotally carried by the front wheel U-member 5^a, to be housed, when folded, within the case body 2. Upon each of the legs 3^a, 3^b of the main frame 1 is slidably mounted a flattened collar 9, which, when the case is in the inverted position, drops down along the leg 3^a or 3^b so as to engage with a lug 10 provided on the limb 4^a or 4^b of the U-member 5^a, 5^b pivoted thereto in order to lock same in the working position. This locking action is effected automatically when the case is inverted, the collar 9 dropping by gravity into the locking position. Straps 11 limit the outward swinging movements of limbs 4^a, 4^b. When, after use, the attaché case 2 is restored to its normal position (see Figures 3 and 4) the U-member locking collars 9 drop out of the locking position by gravity, allowing the said U-member 5^a or 5^b to be folded into the case interior as above referred to. Somewhat similar collars 12 are mounted on the limbs 4^a of the front wheel assembly for locking the footrest 8 in position.

The lid 13 of the attaché case is hingedly connected to the case body 2. The hinges 14 are not, however, directly connected to the case body 2, near to the upper edge thereof, but are provided with long links 15 which are pivotally attached to the case body at a position 15^a about half-way down the depth thereof. These links 15 allow the hinged lid 13 to be used for closing the case and also enable the said lid to be swung back so that the hinge-carrying edge 16 thereof is substantially level with the floor 17 of the case body 2. Hence, when the latter is inverted to allow the body floor 17 to be used as a seat (Figures 1 and 2), the swung-back lid 13 of the case constitutes a back rest. To relieve the actual case floor of the child's weight a sheet of plywood (not shown) may line the inside face of the floor and be mounted on the metal frame housed therein. The swung-back lid 13 is held in the position in which it con-

stitutes a back-rest by means of a pair of arms 18 which are pivoted to brackets 19 within the lid 13 and adapted to be swung outwardly and sidewardly to take up positions at opposite sides of the inverted case body 2. The outer extremities of the arms 18 pass through openings in the walls of the case body 2 and enter slots 20 provided in the metal frame 1 therewithin so as to connect the arms 18, and with them the lid 13 rigidly to the main body frame 1. An inverted U-shaped handle 21 is mounted on the outer faces of the flanges of the lid 13 and serves for pushing the erected chair and for carrying the closed case.

I claim:—

1. A folding child's push chair comprising an inverted attaché case body open at one end and a lid pivotally secured to said body for covering the open end thereof, a main frame mounted in the body, independent front and rear substructures carrying pairs of front and rear supporting wheels pivotally connected to said main frame adapted to be raised vertically into said case body, and arm supporting means pivotally connected to said lid, adapted to be folded thereinto, said frame and arm supporting means including locking means adapted to interlock said lid and arm rests in predetermined position.

2. A folding child's push chair comprising an inverted attaché case embodying a body, a lid for said body and links connecting said body and lid with each other, a main frame mounted in the body of said case, independent front and rear wheels carrying substructures extending downwardly from said main frame and pivotally connected therewith to permit said structures to be vertically raised into the case body, arm supporting means pivotally connected to said lid for folding said supporting means into said lid and interlocking means on said arm supporting means and said main frame for interlocking said main frame with said lid when the latter is in substantially upright position.

3. A folding child's push chair comprising an inverted attaché case including a body a lid connected to each other, a frame mounted in said body, independent wheel supporting substructures pivotally connected to said frame adapted to be raised vertically into said body, arm rests pivotally connected to the interior of said lid adapted to be folded into said lid and to a position alongside of the case body, said case body including openings and the lower extremities of the arm rest embodying offset portions adapted to be extended through said openings and interlocked with the frame in said body to directly transmit stresses on said lid to said frame.

4. A folding child's push chair comprising an attaché case including a body having a lid hinged thereto, a main frame mounted in the body of said case including symmetrically arranged limbs, front and rear substructures each including a U-frame pivotally connected to said limbs and gravity actuated locking means consisting of collars slidably embracing the limbs on the main frame and projections on said U-frames laterally engaging said collars when locking said U-frames in proper working position.

MAURICE LOUIS BERNON.