

W. W. WILLIAMS.
CANOPY FOR FOLDING GO-CARTS.
APPLICATION FILED JULY 10, 1909.

974,942.

Patented Nov. 8, 1910.

2 SHEETS-SHEET 1.

Fig. 6.

Fig. 1.

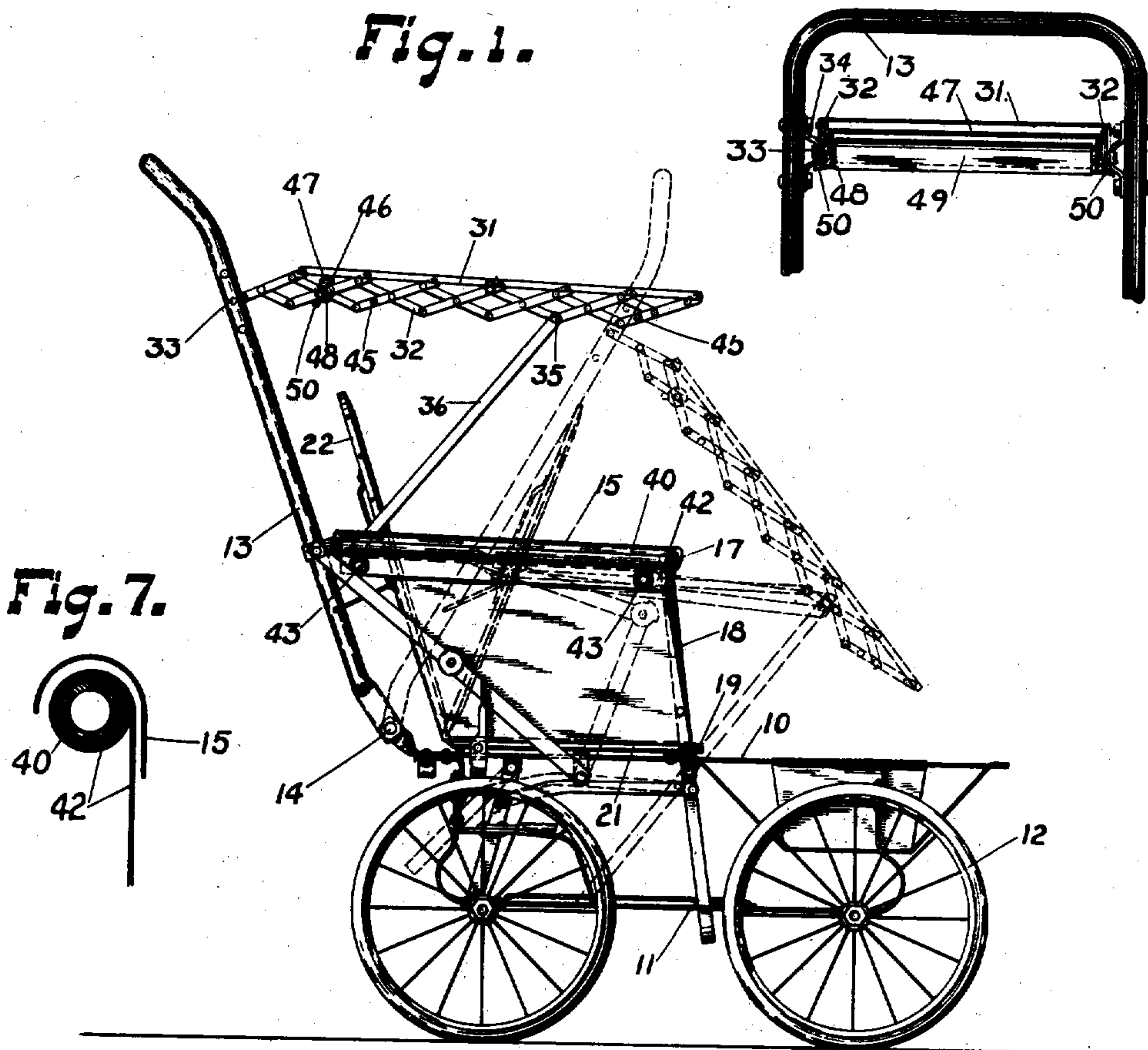


Fig. 7.

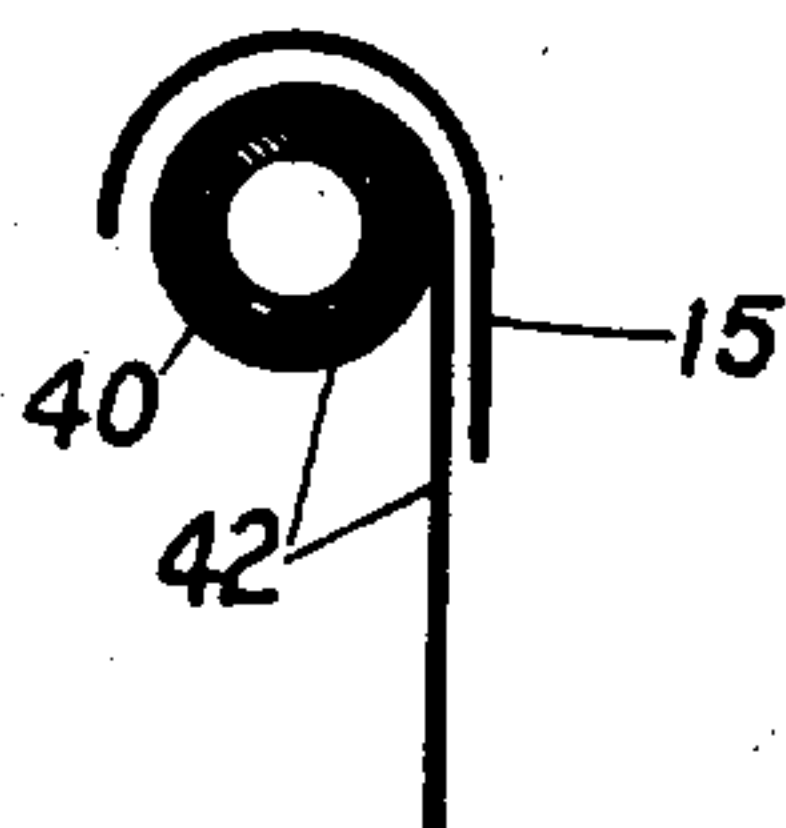


Fig. 4.

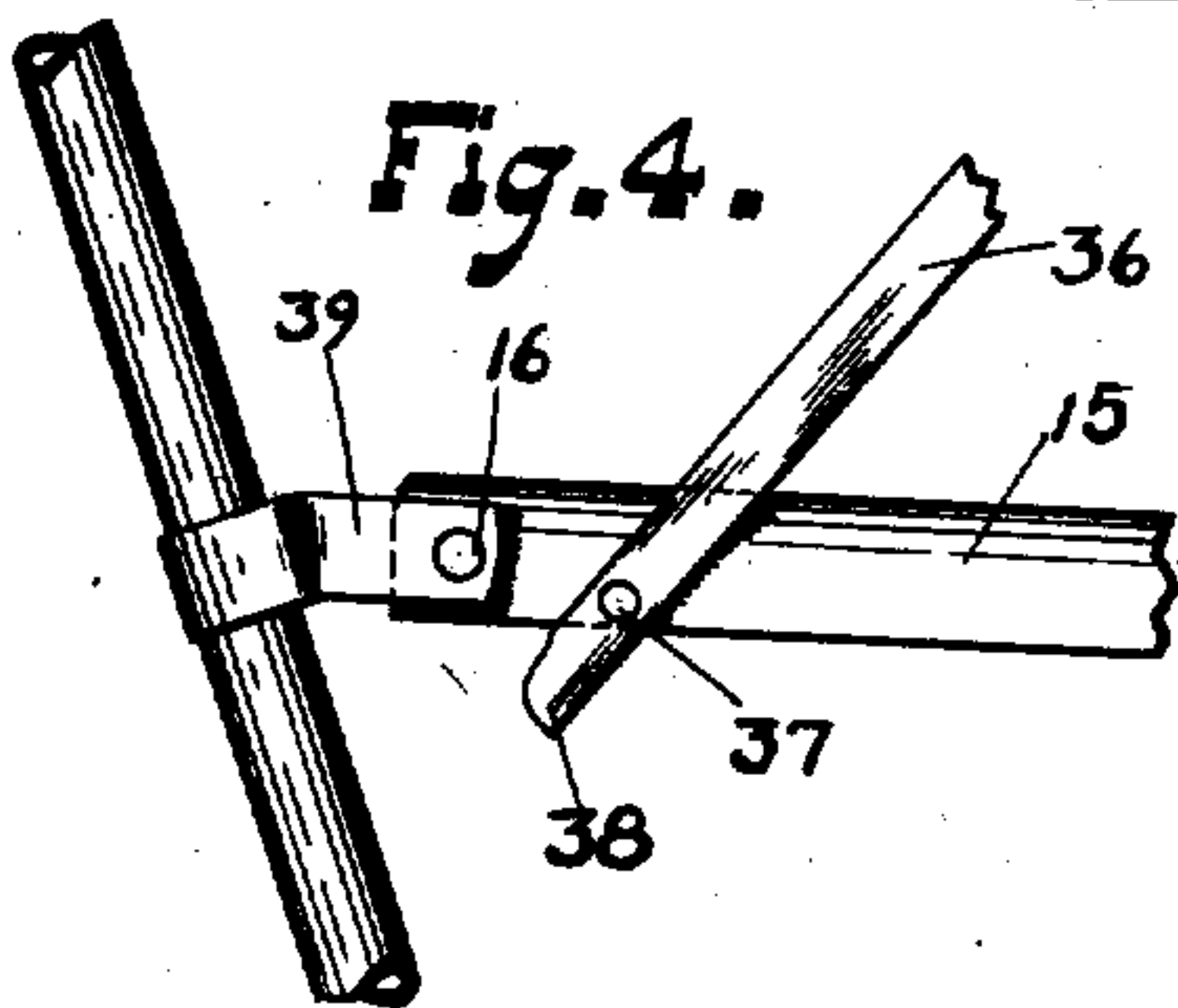
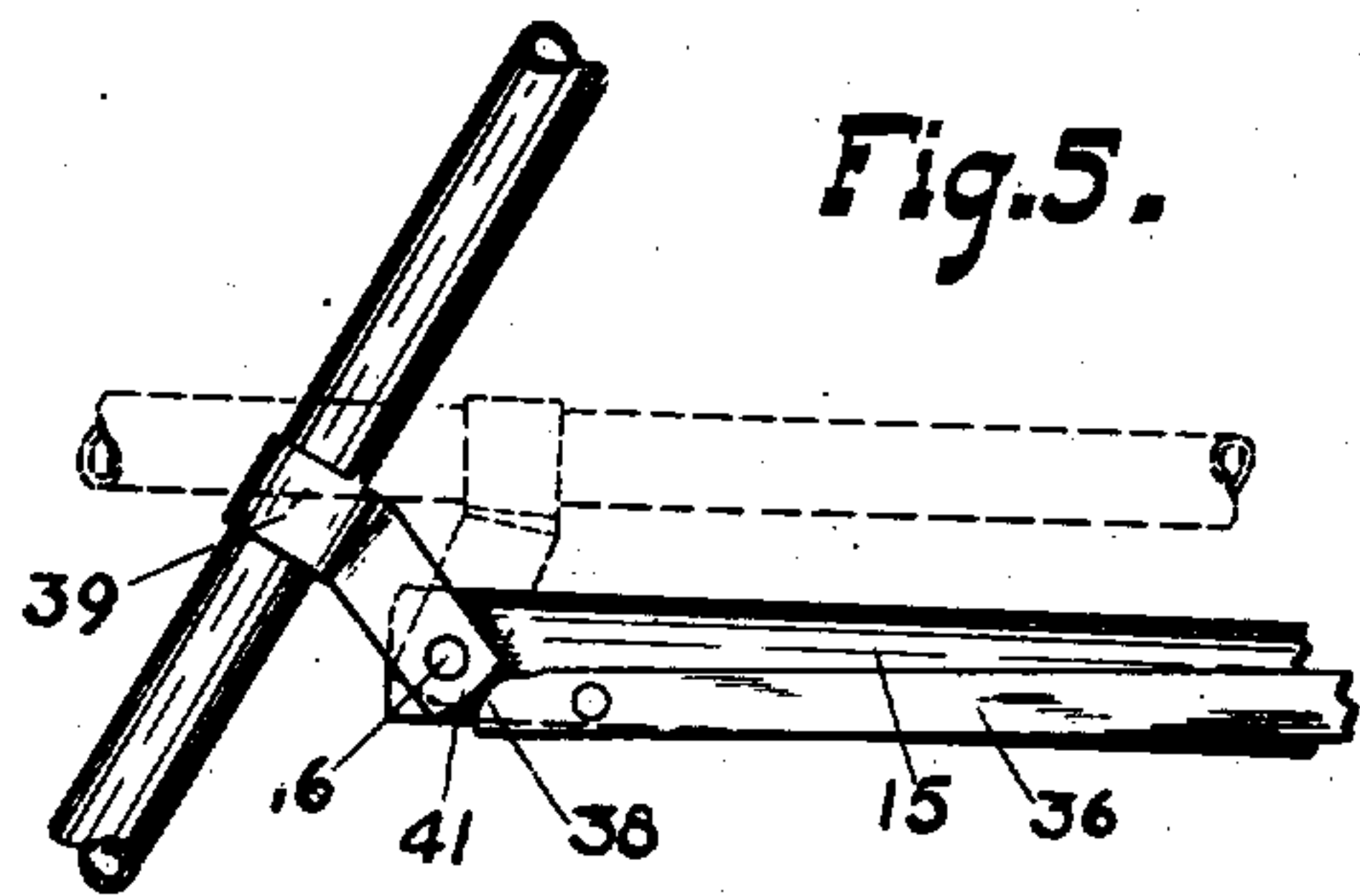


Fig. 5.



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2 SHEETS—SHEET 2.

Fig. 2.

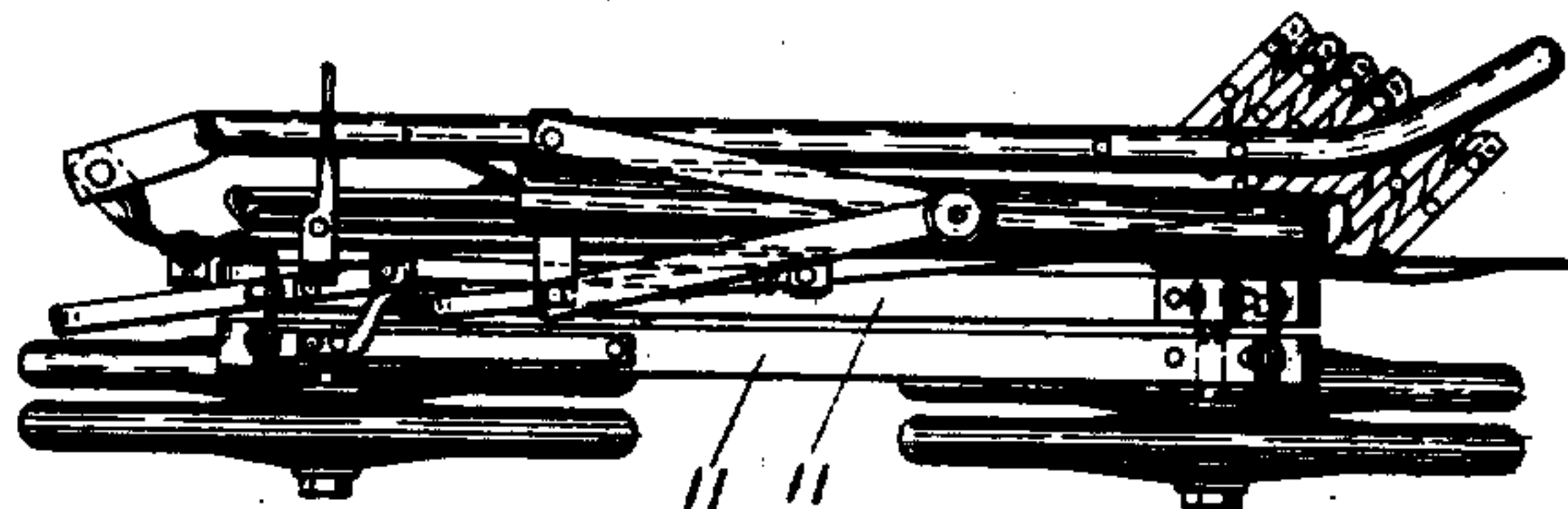
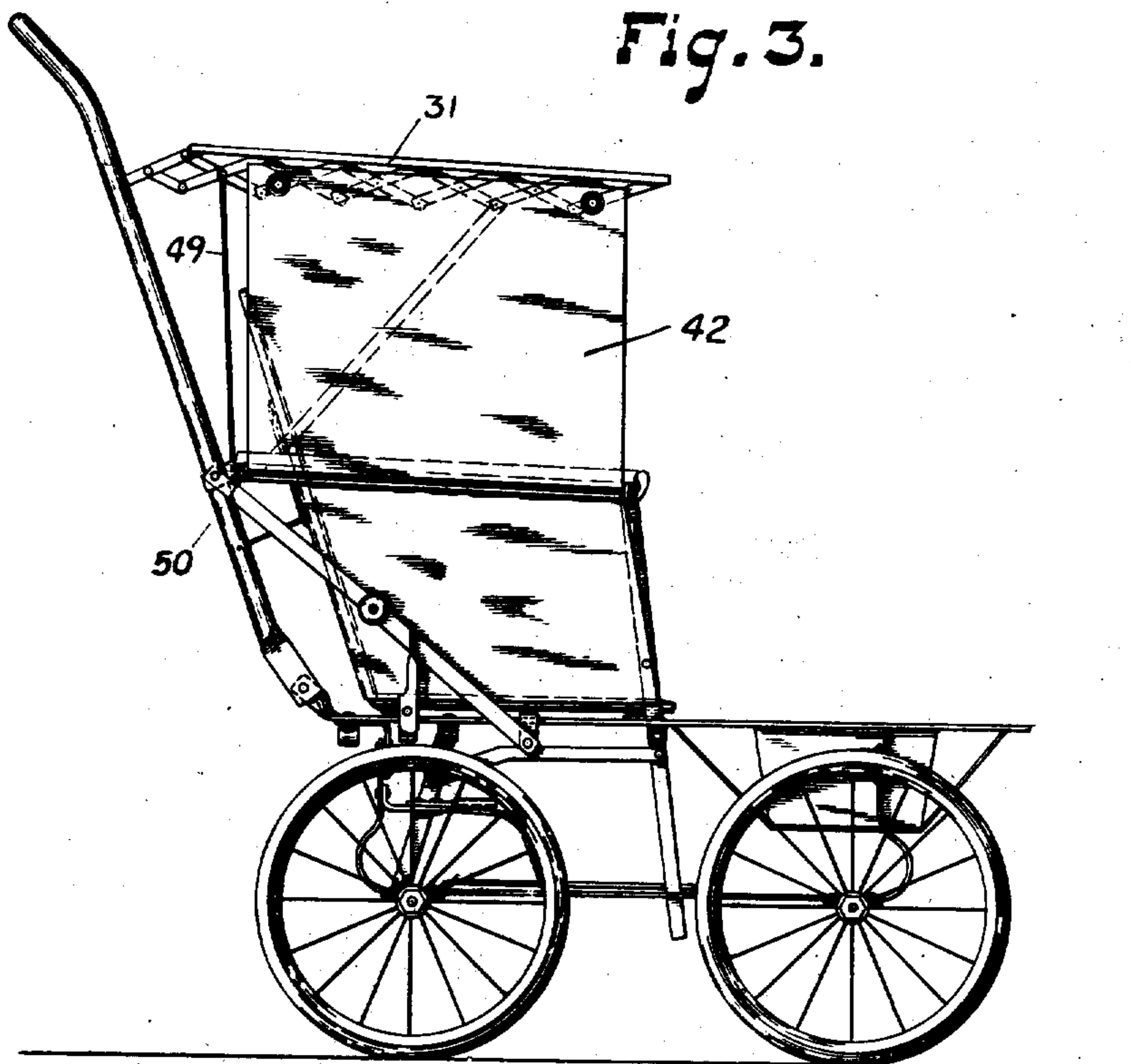


Fig. 3.



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UNITED STATES PATENT OFFICE.

WILLIAM W. WILLIAMS, OF INDIANAPOLIS, INDIANA.

CANOPY FOR FOLDING GO-CARTS.

974,942.

Specification of Letters Patent.

Patented Nov. 8, 1910.

Application filed July 10, 1909. Serial No. 506,898.

To all whom it may concern:

Be it known that I, WILLIAM W. WILLIAMS, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Canopies for Folding Go-Carts, of which the following is a specification.

The object of my invention is to provide a folding go-cart or child's carriage with a storm-and-sun protection means of such a character as to be readily operable, said means comprising a collapsible canopy with means for automatically folding the same when the main body of the structure is folded into compact or portable shape, and also comprising spring-roller curtains to bridge the spaces between the sides and back of the canopy and the seat portion so as to thoroughly protect the upper portion of the body of the child within the cart.

The accompanying drawings illustrate my invention.

Figure 1 is a side elevation of a cart embodying my invention; Fig. 2 a side elevation showing the parts in collapsed condition; Fig. 3 a side elevation showing the protecting curtains extended; Figs. 4 and 5 fragmentary details of the means for automatically collapsing the canopy; Fig. 6 a fragmentary rear elevation; and Fig. 7 a cross section of one of the side arms.

In the drawings, 10 indicates the main frame of the cart, 11 11 the wheel-carrying frames which are pivotally supported upon the main frame, 12 the carrying wheels, 13 the handle frame of the usual U-shaped form pivotally connected at 14 to the rear of the main frame 10. The side arms 15 are pivotally connected at 16 to brackets 39 carried by the handle frame 13, and at 17 are pivoted to the upper ends of uprights 18 pivoted at 19 to the main frame 10. Secured to frame 10 is a seat 21 and a folding back 22 is provided. The parts thus far described as well as the remaining portions of the mechanism, by which the handle, wheel frames and back may be collapsed upon each other, form no part of my present invention and are to be taken merely as typical of many varieties of construction all of which however, bear a general resemblance to each other.

The fundamental feature of my invention is the canopy 31 of such form that it may be collapsed, preferably automatically, when the other members of the structure are collapsed, and for this purpose I provide, at each edge of the canopy cover 31, a lazy-tongs structure 32 the initial member of which is pivoted at 33 to a bracket 34, secured to the handle frame 13. Pivoted at an intermediate point 35 in the length of each structure 32 is a supporting strut 36 which is downwardly and rearwardly inclined and pivoted at 37 to a handle member 15. The strut 36 is provided at its lower end with an extension or finger 38 the tip of which is rounded and adapted to be engaged by the rounded end 41 of bracket 39.

Each side arm 15 is substantially U-shaped in cross section with the opening downward and within each arm is journaled a spring-retracted roller 40 which carries a curtain 42. Each curtain is provided at its free edge with a pair of eyelets 43, 43 adapted to pass over buttons 45, 45 carried by the adjacent structure 32 of the canopy. Mounted between the two structures 32, 32 at the rear thereof, upon one of its pivots 46, is a bracket 47 within which is mounted a spring-retracted roller 48 carrying a curtain 49 provided at its free end with a cross bar 50 adapted to engage beneath brackets 39.

The operation is as follows: The canopy may be extended to the position shown in full lines in Fig. 1, and curtains 42 and 49 may be drawn to the positions shown in Fig. 3 where they will serve to thoroughly protect the occupant of the cart. By withdrawing eyelets 43 from buttons 45, and withdrawing bar 50 from beneath brackets 39, the curtains will be automatically retracted. A canopy may be individually collapsed by swinging the struts 36 toward the rear, the cover member 31 being flexible so as to collapse with the lazy tongs 32.

When it is desired to collapse the cart as a whole no attention need be paid to the condition of the canopy. The handle member 13 may be swung downward toward frame 10 to approximately the position shown in dotted lines in Fig. 1 before there is any movement either of the canopy or of the wheel-carrying frames but at this point the finger 38 of strut 36 comes into engagement

with the rounded end 41 of bracket 39 and the strut is held against any further swing on arm 15 while the handle 13 continues downward and therefore continues its swing relative to the arm 15 so that the point 35 of the lazy tongs being held and the point 33 moving toward it, the lazy tongs are collapsed to the condition shown in Fig. 2. When the parts are restored to their usable condition there is no material movement of the canopy structure, the two pivots 16 and 37 being so close together that there is practically no relative movement of handle 13 and strut 36 as the handle is thrown back to its upright condition, carrying with it the canopy structure and the struts 36.

I claim as my invention:

1. In a perambulator, the combination with a collapsible structure comprising the main frame and a handle member, of a collapsible canopy, supporting members for supporting said canopy in extended condition over the seat portion of the collapsible structure when expanded, said supporting members being supported upon the collapsible structure, and members carried by portions of the collapsible structure which are movable relative to those portions to which the canopy supporting members are connected, said members being so formed as to engage the canopy supports and drive the same in canopy-collapsing direction before completion of collapsing movement of the first mentioned collapsible structure.

2. In a perambulator, the combination, with the main frame and handle member movable toward and from the main frame, of a canopy, a lazy-tongs support for the canopy, connected at one end to the handle member, and a strut connected to the canopy-support and to the main frame at a point other than the point of attachment of the handle with the main frame.

3. In a perambulator, the combination, with the main frame and handle member movable toward and from the main frame, of a canopy, a support for the canopy connected at one end to the handle member, a strut connected to the canopy-support and to the main frame, and means engaging said strut to hold the same during movement of the handle toward the main frame, to cause automatic collapse of the canopy-support.

4. In a perambulator, the combination, with the main frame and handle member movable toward and from the frame, of a canopy, a lazy-tongs support for the canopy connected at one end to the handle member, a strut connected to the canopy-support and to the main frame, and means engaging said strut to hold the same during movement of the handle toward the main frame, to cause automatic collapse of the canopy-support.

5. In a perambulator, the combination,

with the main frame and the handle member pivoted thereto, of a collapsible lazy-tongs canopy supported on the handle member and extended over the main frame, and means connected with the main frame for engaging and collapsing the canopy when the handle is swung toward the main frame.

6. In a perambulator, the combination, with the main frame, of the handle member pivoted on the main frame, arms pivoted to the handle, supports connecting the arms with the main frame, a canopy supported at its rear end on the handle member, struts pivotally supported at their lower ends on a member movable relative to the handle and connected to the forward end of the canopy, and means for restraining movement of said struts while the handle member approaches the main frame and said struts whereby the canopy is automatically folded.

7. In a perambulator, the combination, with the main frame, of the handle member pivoted on the main frame, arms pivoted to the handle, supports connecting the arms with the main frame, a lazy-tongs canopy supported at its rear end on the handle member, struts pivotally supported at their lower ends and connected to the forward end of the canopy, and means for restraining movement of said struts while the handle member approaches the main frame and said struts whereby the canopy is automatically folded.

8. In a perambulator, the combination, with the main frame, of the handle member pivoted on the main frame arms pivoted to the handle, supports connecting the arms with the main frame, a canopy supported at its rear end on the handle member, struts pivotally supported at their lower ends and connected to the forward end of the canopy, means for restraining movement of said struts while the handle member approaches the main frame and said struts whereby the canopy is automatically folded, spring roll curtains carried by the arms and adapted to bridge the space between the arms and the canopy, and a spring roll curtain carried by the canopy and adapted to bridge the space between the canopy and seat back of the main frame.

9. In a perambulator, the combination with the main frame, of a handle member pivoted on the main frame, arms pivoted to the handle, supports connecting the arms with the main frame, a lazy-tongs canopy supported at its rear end on the handle member, struts pivotally supported at their lower ends and connected to the forward end of the canopy, means for restraining movement of said struts while the handle member approaches the main frame and said struts whereby the canopy is automatically folded, spring roll curtains carried by

the arms and adapted to bridge the space between the arms and the canopy, and a spring roll curtain carried by the canopy and adapted to bridge the space between the
5 canopy and seat back of the main frame.

In witness whereof, I, have hereunto set my hand and seal at Indianapolis, Indiana,

this six day of July, A. D. one thousand nine hundred and nine.

WILLIAM W. WILLIAMS. [L. s.]

Witnesses:

ARTHUR M. HOOD,
THOMAS W. McMEANS.