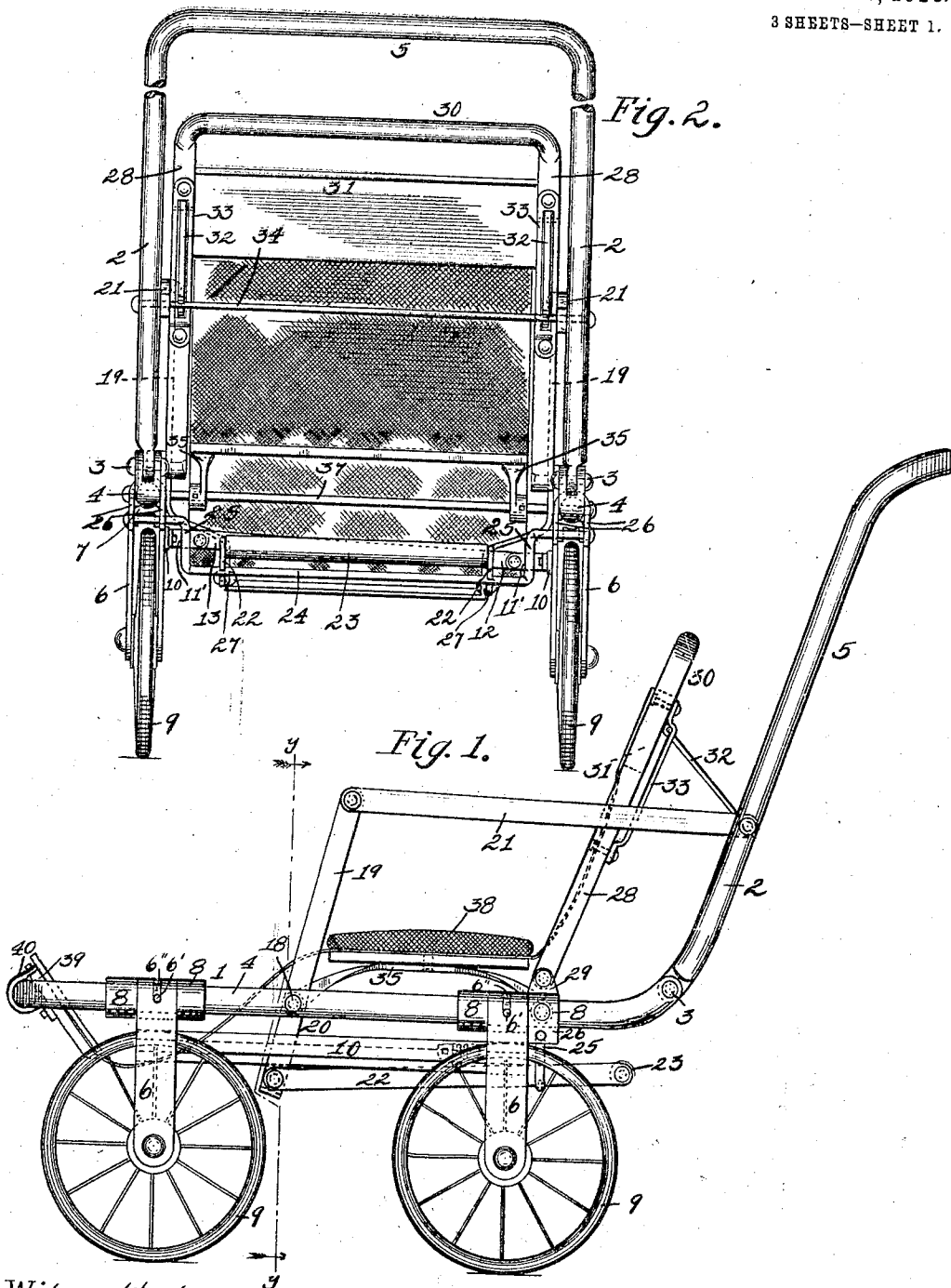


J. KANABAY.
FOLDING PERAMBULATOR.
APPLICATION FILED JUNE 26, 1909.

960,387.

Patented June 7, 1910.

3 SHEETS—SHEET 1.



Witnesses:
C. E. Wessels.
A. A. Olson.

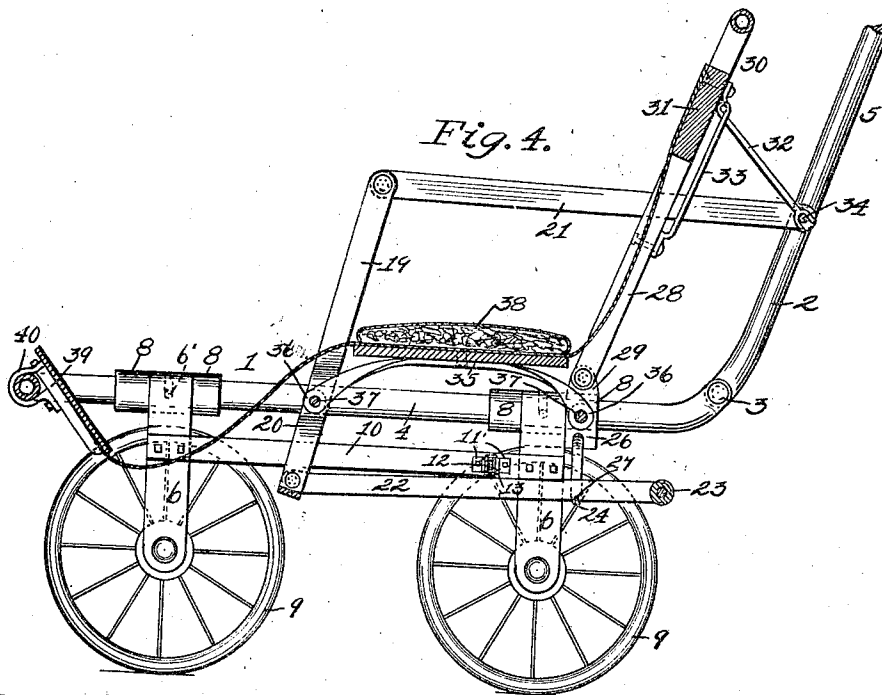
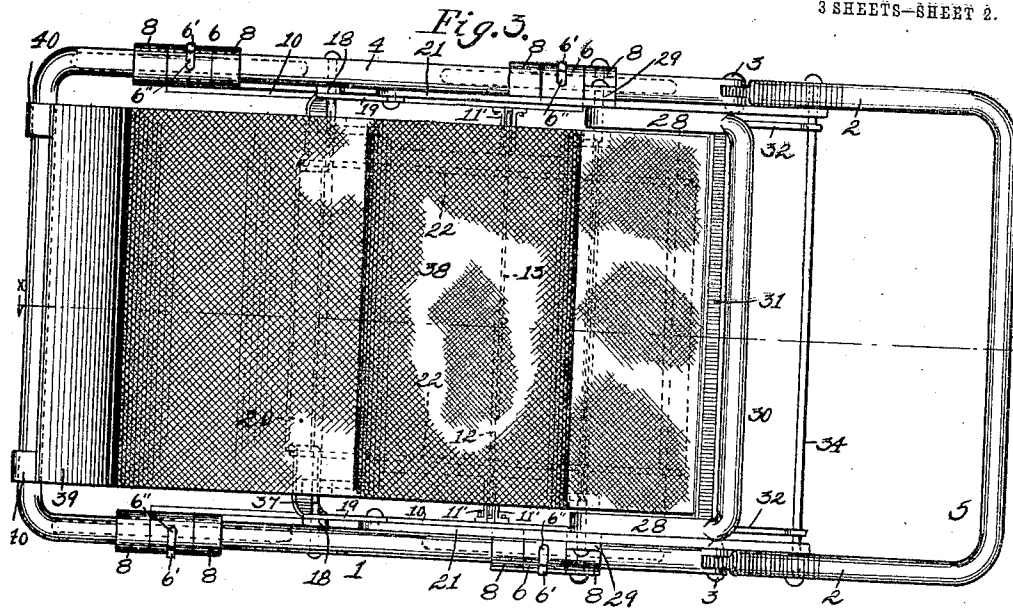
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960,337.

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3 SHEETS—SHEET 2.



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3 SHEETS—SHEET 3.

Fig. 5.

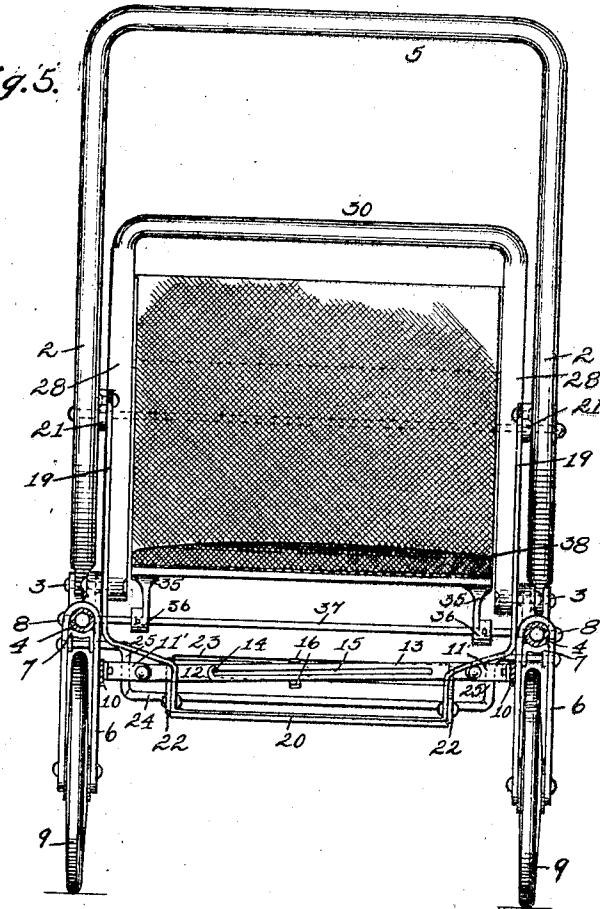
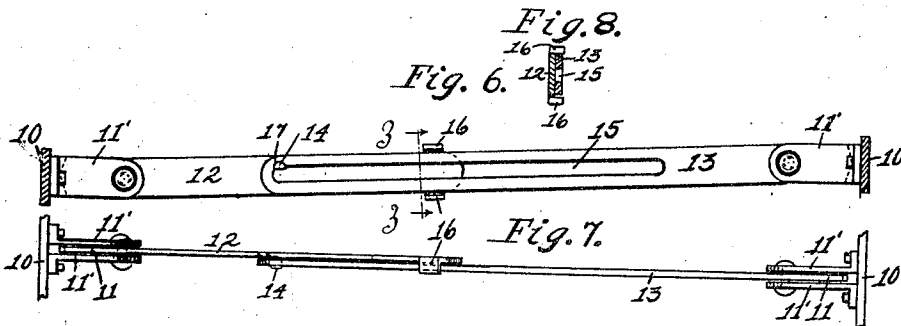


Fig. 8.

Fig. 6.



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UNITED STATES PATENT OFFICE.

JOSEPH KANABAY, OF ELKHART, INDIANA.

FOLDING PERAMBULATOR.

960,337.

Specification of Letters Patent. Patented June 7, 1910.

Application filed June 26, 1909. Serial No. 504,433.

To all whom it may concern:

Be it known that I, JOSEPH KANABAY, a citizen of the United States, residing at Elkhart, county of Elkhart, and State of Indiana, have invented certain new and useful Improvements in Folding Perambulators, of which the following is a specification.

My invention relates to perambulators and more specifically to that class thereof known as go-carts.

The object of my invention is to provide a perambulator of the character mentioned which will be of a foldable nature adapting the same to be readily collapsed so as to occupy a comparatively small compass thereby effecting convenience in the transportation or storage thereof.

A further object is the provision of a go-cart which may be folded by a single movement, or, by the actuation of a single lever hence making it possible to fold the same into collapsed position in the shortest time possible.

A still further object is the provision of a go-cart which will be highly efficient, strong, durable and comparatively simple of construction hence of low cost to manufacture.

Other objects will appear hereinafter.

With these objects in view my invention consists in a perambulator characterized as above mentioned and in certain details of construction and arrangement of parts all as will be hereinafter fully described and more particularly pointed out in the appended claims.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification and in which,

Figure 1 is a side elevation of my perambulator in its preferred form, Fig. 2 is a rear elevation thereof, Fig. 3 is a top plan view, Fig. 4 is a vertical longitudinal section taken on the line $x-x$ of Fig. 3, Fig. 5 is a vertical transverse section taken on the line $y-y$ of Fig. 1, Figs. 6 and 7 are an enlarged elevation and a top plan view respectively of a portion of the perambulator, and Fig. 8 is a transverse section taken on the line $z-z$ of Fig. 6.

Referring now to the drawings, 1 indicates the running-gear frame of the device

preferably formed of a single piece of U-shaped metallic tubing.

Having the lower extremities of its parallelly extending bars 2 pivoted as at 3 to the rearward extremities of the parallelly extending running-gear frame bars 4 is a rearwardly inclined handle 5.

Having their upper ends looped around or embracing the bars 4 are swinging wheel forks 6 the same being locked against radial movement thereon by segmental straps 7 secured, preferably riveted; therein resting in engagement with the underside of the bars 4, and against longitudinal movement upon said bars by collars 8 secured, preferably brazed thereon. Pins 6' projecting from the bars 4 engaging quadrant slots 6'' formed in the upper end portions of said forks permit of inward rocking of the latter but prevent outward movement thereof beyond a vertical position. Journaled in the lower extremities of said forks are wheels 9 of any suitable construction. Connecting the wheel forks 6 upon like sides of the perambulator or those mounted upon the same bar 4, are longitudinally extending bars 10 the same being positioned upon said forks at different relative elevations for a purpose which will be hereinafter described.

Having their outer extremities 11 pivoted between pairs of inwardly projecting lugs 11' secured to the bars 10 at the rearward end portions thereof, in transversely aligning positions thereon, are rods 12 and 13 overlapping at their inner end portions. The member 12 is provided upon its contacting surface with a projecting pin 14 engaging an elongate narrow slot 15 provided in the member 13, and upon the upper and lower edges of its inner extremity with ears 16 embracing the member 13, said ears being spaced apart, as clearly shown in Fig. 6, to such an extent as to permit of slight rocking movement of said members 12 and 13, for a purpose which will be obvious as the description proceeds. Provided in the inner extremity of said slot in the upper surface thereof is a notch 17 of a shape adapting the same to snugly receive the pin 14. Said notch is so positioned in the member 13, and the pin 14 is so positioned upon the member 12, that when said pin is in engagement with said notch, the forks 6 will be disposed in a vertical position, said engage-

ment between said pin and notch being such as to serve as a locking means to maintain said forks in vertically disposed positions. With the relative arrangement of said pin and notch as stated and shown, the interlocking thereof will evidently be occasioned, upon the same being brought to registering position, through the gravity of the members 12 and 13; the registering thereof being effected through the forks and wheels which by their own gravity are normally disposed in a vertical plane.

Pivoted as at 18 to the inner side of the running-gear frame side bars 4, the same being positioned thereon so that the bars 19 thereof shall be in transversely alining position relative to the bars 4, is a substantially U-shaped member 20. Rods 21 in pivotal connection at their forward extremities with the upper extremities of said bars 19 and at their rearward extremities with the handle bars 2, establish an operative connection between the latter and said handle bars. In swinging connection with the preferably inwardly offset lower extremities of the bars 19 are rearwardly extending, substantially horizontally disposed rods 22 joined at their rearward extremities by a hand grip forming cross bar 23. Said rods 22 are supported at their rearward ends upon a transversely extending bar 24 the offset end portions 25 of which are rigidly secured in ears 26 depending from the rearmost of the collars 8, the elevational position of said bars being such as to so support the rods 22 that the upper edges thereof are disposed in close proximity with the lower edges of the rods 12 and 13, as clearly shown in Fig. 4. Provided in each of said rods 22 is a notch 27 which, when the handle bars are in upright or operative position, engage the upper edge of said bar 24, as clearly shown in Fig. 4, to maintain the handle in such position, this being the only means provided to effect such purpose.

With the construction thus far described, assuming the perambulator to be in unfolded or open operative position, it will be seen, that upon desiring to fold the same together, all that is necessary is to grasp the bar 23 of the rods 22 and by a slight rearward and upward movement or drawing thereof such collapsion will be effected; it being clear that by the rearward drawing of said rods the handle, the member 20, and rods 21 will be folded together above the running-gear frame, and that, upon the upward movement of said rods, the inner ends of the rods 12 and 13 will be elevated causing, first the disengagement of the pin 14 from the notch 17, and second upon further forcing said rods 12 and 13 upwardly, the collapsion or sliding together thereof and hence the inward rocking of the forks 6 and wheels carried thereby, to a position below the running-

gear frame. By positioning the cross bars 10 at different elevations upon the forks 6, as before stated, the contacting points of the rods 22 with the members 12 and 13 connected thereto, will be disposed in different horizontal planes, hence upon the elevation or upward rocking of the rods 22, one of said members 12 or 13 will be engaged thereby before the other, hence the two sets of forks and wheels, namely those situated upon opposite sides of the running-gear frame, in operative connection therewith, will be swung inwardly not both at the same instant, thereby obviously preventing collision of the inner extremities thereof in such folding, and occasioning the folding thereof to positions in planes parallel with that of the running-gear frame and with their adjacent ends overlapping.

Having the lower extremities of its longitudinal bars 28 pivoted to ears 29 formed upon and upwardly extending from the rearmost collars 8, is a back forming frame 30, in which is provided a suitable transversely extending back board 31. Arms 32 having their forward trunnioned extremities slidably secured in slotted straps 33 provided upon the rearward sides of said bars 28, and their rearward extremities bifurcated to receive a rod 34 transversely extending between and secured to the handle bars 2, afford an adjustable supporting means for the back frame 30. Supported upon arched spring straps 35 the extremities 36 of which embrace, as shown in Fig. 4, rods 37 secured to and transversely extending in the running-gear frame, is a seat 38 of suitable construction. An obliquely disposed foot rest 39 is preferably provided, the same being suitably secured, preferably by loops 40, to the forward cross bar of the running-gear frame. A suitable flexible fabric is shown extending from said foot rest to said seat and thence to said back board 31, said fabric being secured in any desired manner to such members. However, such details are not of the essence of my invention, hence I do not wish to limit myself to the specific arrangement and design thereof set forth.

By the provision of a perambulator of the construction as shown and described, one of neat and finished appearance and of durable and economical construction will be provided; and one in which, by a single upward and rearward movement, the entire collapsion thereof may be effected.

While I have shown what I deem to be the preferable form of my perambulator, I do not wish to be limited thereto as there might be many changes made in the details of construction and arrangement of parts without departing from the spirit of the invention comprehended within the scope of the appended claims.

Having described my invention what I claim as new and desire to secure by Letters Patent is:

1. In a folding perambulator, the combination of a running gear frame, a folding handle pivoted to the rear of said frame, a seat on said frame, a foldable back for said seat, folding connections between said back and said handle, a side lever pivoted to said frame and extending above and below said frame, a link connection between the upper portion of said lever and said handle, a rearwardly extending operating member pivoted to the lower portion of said side lever, detachable means for locking said operating member in position, collapsible wheels located at either side of said frame, and collapsible bars adapted to hold said wheels in extended positions, the said bars being adapted to be collapsed by said operating member, substantially as described.

2. In a folding perambulator, the combination of a running gear frame, a folding handle pivoted to the rear of said frame, a seat on said frame, a foldable back for said seat, folding connections between said back and said handle, side levers pivoted at either side of said frame and extending above and below said frame, link connections between the upper portions of said levers and said handle, a rearwardly extending U-shaped operating member having its limbs pivoted to the lower portions of said side levers and having notches in the lower sides of its limbs near their ends; a bar suspended from the frame and adapted to engage said notches to lock said operating member in position, a pair of connected wheels foldably connected with said frame at either side, and collapsible bars adapted to hold said pairs

of wheels in expanded position, the said bars being located immediately above said operating member, substantially as described.

3. In a folding perambulator, the combination of a running-gear frame having a seat and a foot rest supported thereon, a folding back, a folding handle disposed rearwardly of and connected with said back, pivoted bars forwardly extending from said handle, depending bars pivotally mounted upon said running-gear frame having their upper extremities pivotally connected to said first named bars, rods disposed substantially parallel to said running-gear frame having their forward extremities pivoted to the lower extremities of said depending bars, means for locking said rods to support said handle in operative position, wheel forks swingingly mounted upon the longitudinal bars of said running-gear frame, a rigid connection between forks mounted upon the same frame bar, collapsible means positioned in close proximity to said before named rods adapted normally to interlock to maintain opposing forks in parallelism, said means upon collapsion being adapted to cause the inward folding of said forks, said rods being adapted upon upward rearward movement thereof to cause the collapsion of said collapsible means, and the folding of said back and said handle, substantially as described.

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

JOSEPH KANABAY.

Witnesses:

K. R. McDONALD,
JOHN C. SCHAFER.