

M. FOLGEMAN & A. KRAUS.
FOLDING GO-CART.
APPLICATION FILED MAR. 20, 1909.

955,783.

Patented Apr. 19, 1910.

4 SHEETS—SHEET 1.

Fig. 1.

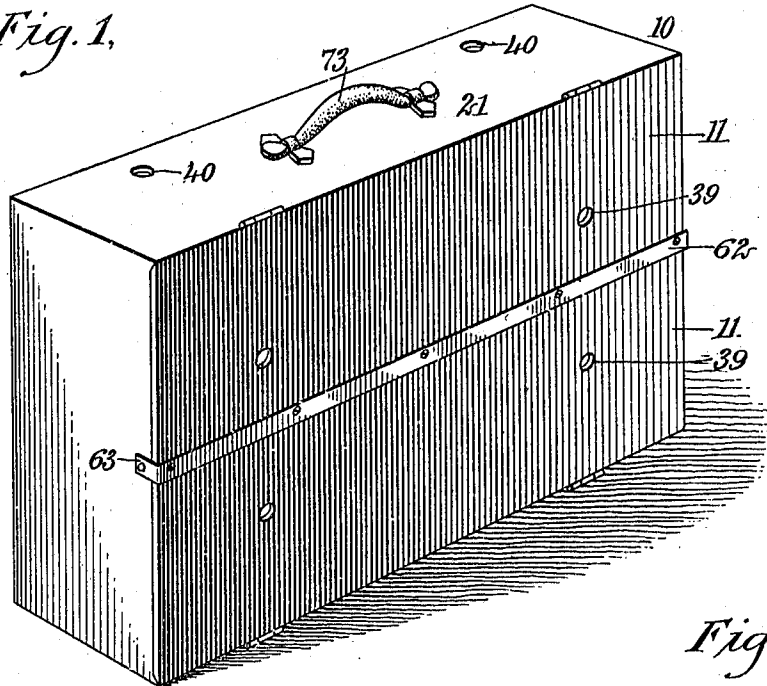
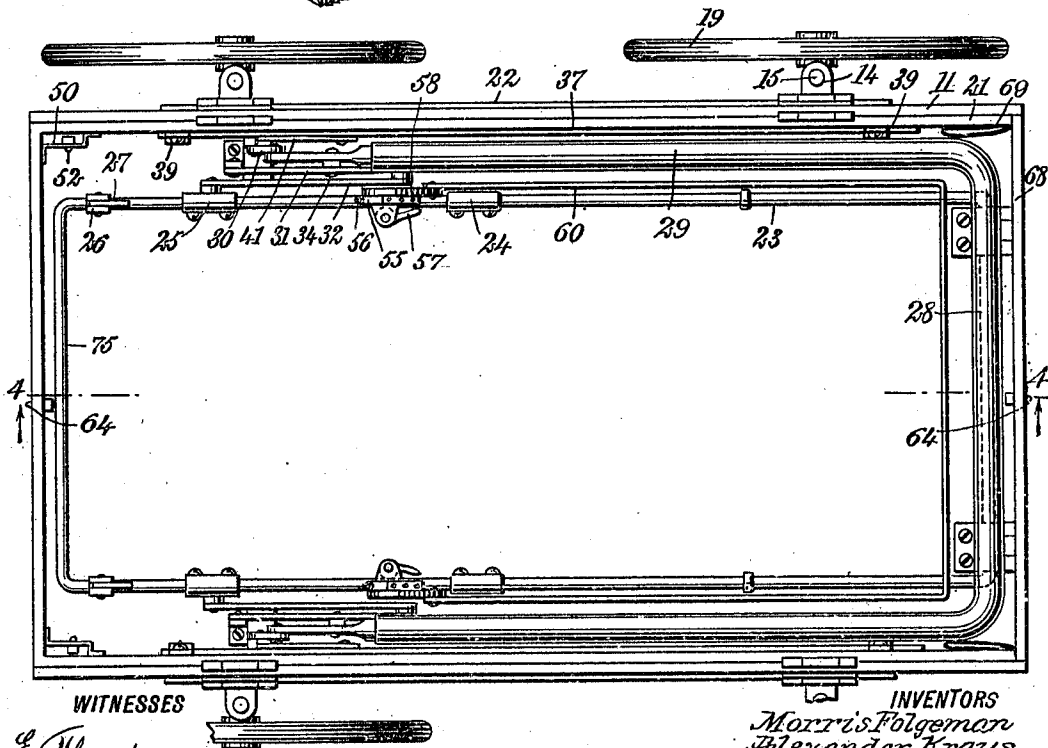


Fig. 2.



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4 SHEETS—SHEET 2.

Fig. 3,

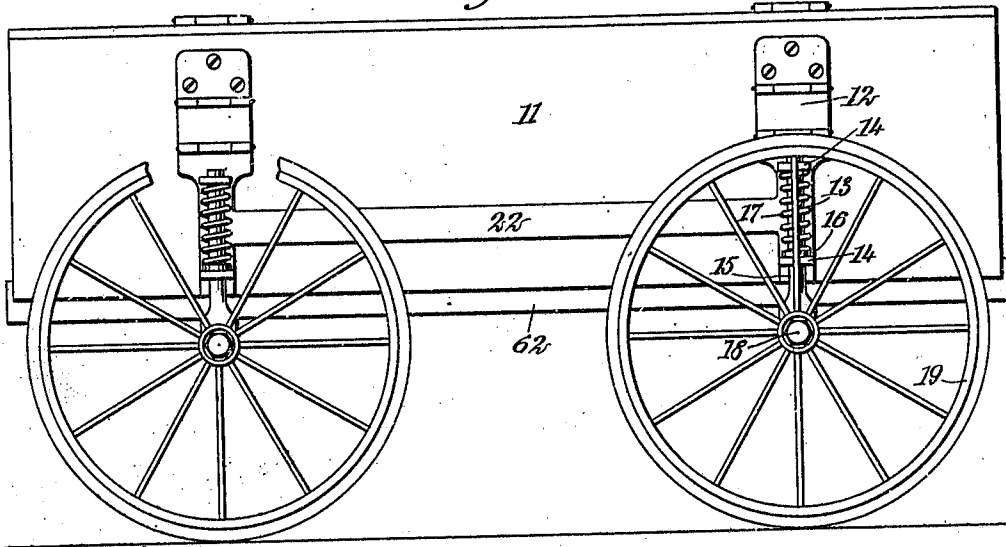


Fig. 4,

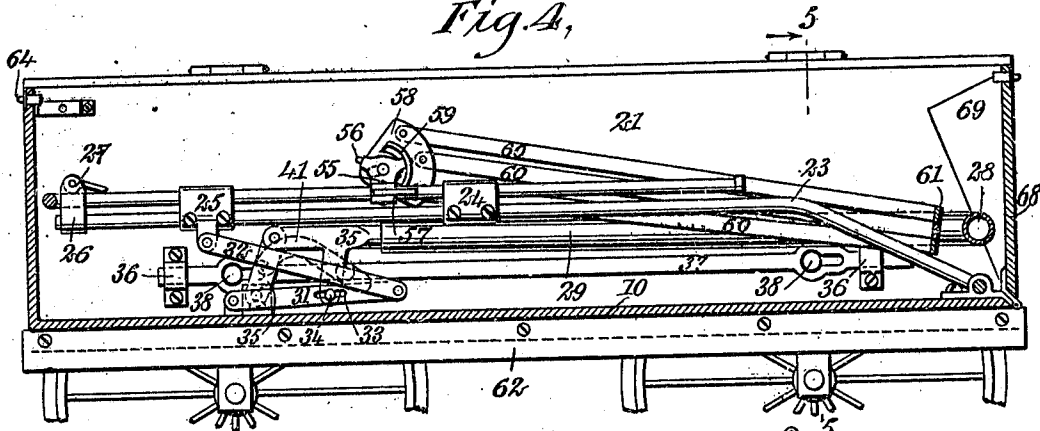
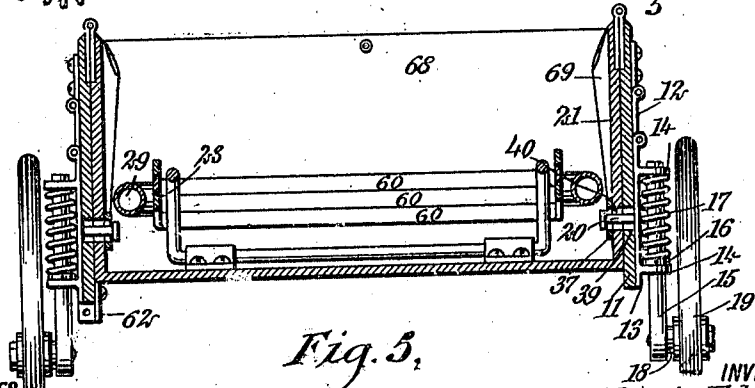


Fig. 5,



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4 SHEETS—SHEET 3.

Fig. 6,

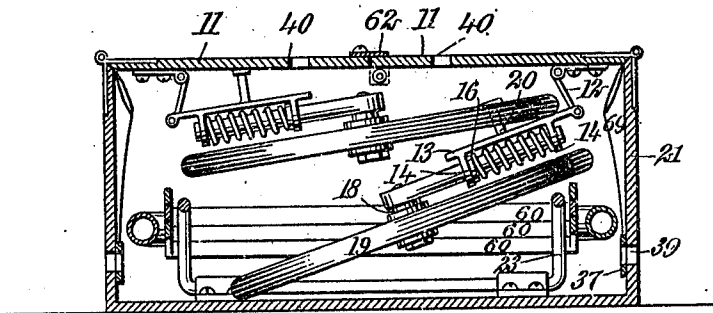


Fig. 7,

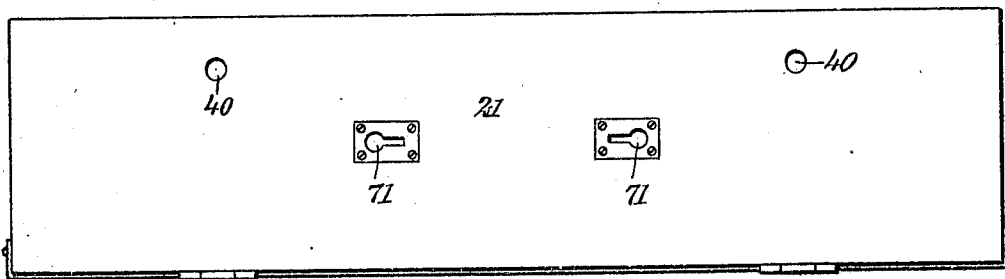


Fig. 8,

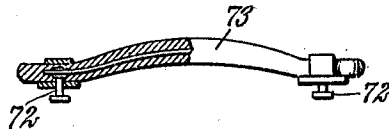


Fig. 11.

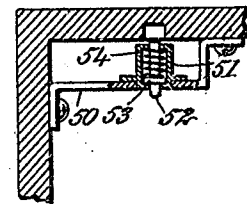


Fig. 10,

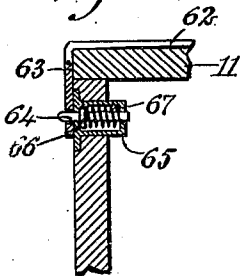
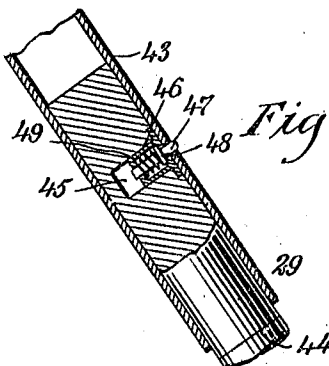


Fig. 9,



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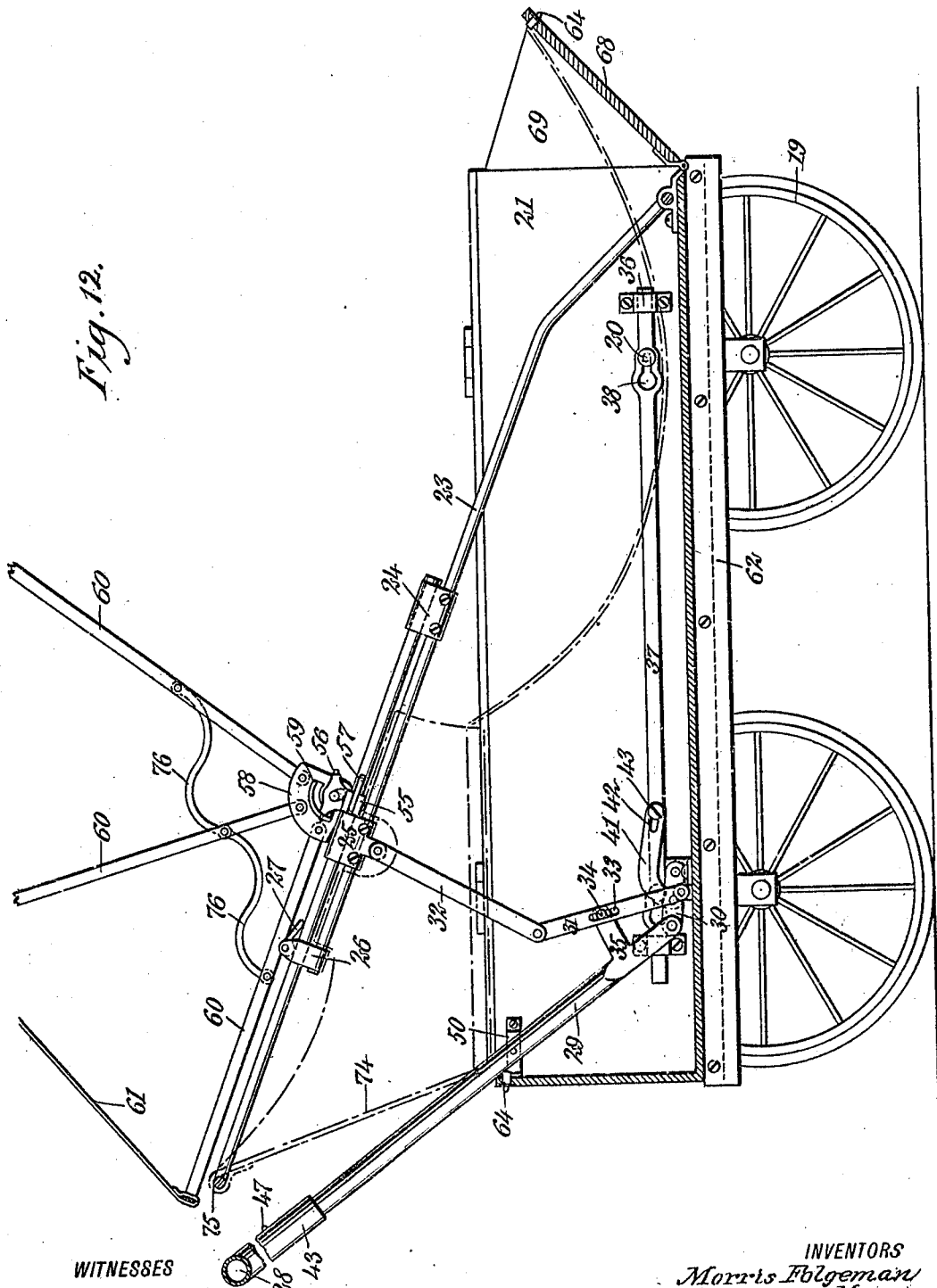
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4 SHEETS—SHEET 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

MORRIS FOLGEMAN AND ALEXANDER KRAUS, OF NEW YORK, N. Y.

FOLDING GO-CART.

955,783.

Specification of Letters Patent.

Patented Apr. 19, 1910.

Application filed March 20, 1909. Serial No. 484,700.

To all whom it may concern:

Be it known that I, MORRIS FOLGEMAN, a citizen of the United States, and ALEXANDER KRAUS, a subject of the King of Hungary, both residents of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and improved Folding Go-Cart, of which the following is a full, clear, and exact description.

Our invention relates to go-carts and has for its object to provide one in which the wheels, springs, hood, and other similar parts may be folded in the body, which may be closed so that it will resemble a dress-suit case, means being provided to secure releasably the wheels, springs, hood, etc. in operative position.

Still other objects of the invention will appear in the following complete description.

In this specification we will describe the preferred form of our go-cart, it being understood that the scope of the invention is defined in the appended claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view showing the members inclosed in the body; Fig. 2 is a plan view showing the body open with the wheels in operative position; Fig. 3 is a side elevation of the go-cart; Fig. 4 is a sectional view on the line 4—4 of Fig. 2; Fig. 5 is a sectional view on the line 5—5 of Fig. 4; Fig. 6 is a transverse sectional view, showing the parts as disposed when the body is closed; Fig. 7 is a plan view of the body as closed, showing the means by which the handle is secured thereto; Fig. 8 is a partly sectional side elevation of the handle; Fig. 9 is a fragmentary sectional view showing the telescopic arrangement of the handle bars; Fig. 10 is a fragmentary sectional view showing the means of holding the hinged side members of the body in a closed position; Fig. 11 is a fragmentary sectional view showing the means by which the handle bars are held upward, and Fig. 12 is a side sectional elevation of the invention.

By referring to the drawings it will be seen that a body 10 is provided, this body having two side members 11, hinged one

above the other at the top and the bottom of the body 10 respectively, the side members 11 having links 12 hinged thereto, there being supports 13 hinged to the said links 12, these supports 13 having flanges 14, which are spaced apart. The flanges 14 have orifices therein in which are disposed rods 15, there being collars 16 on the rods 15 respectively, and around each of the rods 15 between the collar 16 and the opposite flanges 14 are disposed springs 17, these springs being provided to hold the collars 16 against the lower flanges 14. To the rods 15 are secured axles 18 on which are mounted wheels 19. Preferably there are four wheels two at each side of the body, each of which is mounted as has been described. To the supports 13 are secured pins 20, having heads which are disposed through orifices in the side members 11 and in the neighboring sides 21 of the body, the heads of the pins being disposed within the body and fastened by means which will hereinafter be described.

In order to brace the supports 13 there are connecting members 22 between the two supports respectively at each side of the body. Extensible arms 23 are pivoted in the body at its bottom near its front, sleeves 24 and 25 being secured to one of the members respectively of the extensible arms 23, and in these sleeves 24 and 25 other members of the extensible arms respectively slide, a cam sleeve 26 being secured to one of the members of the extensible arms respectively, having cams 27, which engage the other members of the said extensible arms so that the extensible arms may be held in a desired extended position.

A handle 28 has handle bars 29 to which links 30 are pivoted, these links 30 being pivoted at the bottom of the body. Links 31 are pivoted to the bottom of the body, and to these links 31 are pivoted links 32, which are in turn pivoted to the sleeves 25, the extensible arms 23 being adapted to be supported by the links 31 and 32 which constitute a toggle joint. There are slots 33 in the links 31 and in these slots 33 are disposed pins 34, which are mounted on fingers 35 secured to the handle bars 29 respectively.

Mounted in guides 36 at the inner sides of the body 10 are slide bars 37, which have key slots 38 therein, the key slots 38 being

adapted to register with the orifices 39 and 40 respectively in the hinged side members 11 and in the neighboring sides 21, so that when the heads of the pins 20 are disposed within the body by sliding the bars 37, the pins 20 will be secured by their heads to hold the hinged side members 11 and the supports 13 in operative position. To the links 30 are pivoted curved links 41, which have slots 42 therein, which engage pins 43 secured to the sliding bars 37.

The lower portions of the handle bars 29 are preferably of wood, and have metal sleeves 43 disposed at their upper terminals so that the handle 28 may be extended when the handle bars 29 are raised. In the wooden portion 44 of the handle bars there are recesses 45 in which are disposed casings 46 having orifices through which pins 47 project, there being flanges 48 on the said pins respectively against which springs 49 press so that the pins 47 will be held yieldingly outward. In the metal sleeves 43 there are orifices in which the pins 47 are adapted to be disposed so that when the handle 28 is lifted and the metal sleeves 43 are drawn outwardly, the pins 47 will slip into the orifices in the metal sleeves 43 and hold the handle extended.

At the upper inner sides of the body, near its rear, are secured frames 50 having a smaller casing 51 with orifices through which pins 52 are adapted to be disposed, there being flanges 53 on the pins against which springs 54 press to hold the pins yieldingly outwardly, the function of these pins 52 being to engage the handle bars 29 when the handle is raised and to permit the handle bars to slip rearwardly by them to be held between the said pins 52 and the rear of the body.

On one of the members respectively of the extensible arms 23 are mounted sleeves 55, having upwardly-extending flanges respectively, each provided with two fingers 56, the sleeves 55 being held in position on the extensible arms by cams 57. Pivoted to these flanges 55 are central hood members 58, which have curved flanges 59 with orifices therein in which the fingers 56 are adapted to be disposed to hold the central hood member 58 at predetermined angles with reference to the extensible arms 23. To the central hood member 58 are pivoted arms 60 to which is secured a cover 61. A band 62 is secured to one of the hinged side members 11; the band being adapted to cover the joint between the two said hinged side members 11 when the device is closed, this band 62 having flanges 63 at either end, the flanges having orifices therein through which are disposed pins 64, when the device is closed, the pins 64 holding the band 62 securely, thereby holding one of the hinged side members 11 to which it is secured and the other

hinged side member 11 against the outer border of which it is disposed. The pins 64 are disposed in casings 65, the pins having flanges 66 thereon, against which springs 67 press to hold the pins 64 yieldingly outward.

The front 68 of the body is hinged at its bottom so that it may be disposed outwardly, there being flexible material 69 secured to the front 68 and to the front of the neighboring sides 21 of the body, which will support the front 68 in an extended position and will be disposed in the body when the working parts are inclosed within the body and the front is drawn inwardly. One of the flanges 63 of the band 62 will engage the pin 64, mounted as has been described on the front 68, and will hold the front in a closed position. In one of the neighboring sides 21 which is the top of the body, there are two key slots 71 in which the heads of the pins 72 on a handle 73, are adapted to be disposed so that the handle 73 may be quickly adjusted in position or be removed.

If desired a curtain 74 may be supported on the rod 75 connecting the extensible arms 23.

In using our invention, when the device is closed as shown in Fig. 1 of the drawings, the handle 73 is first removed, and the pins 64 are then pressed inwardly, thereby freeing the flanges 63 of the band 62 and permitting the hinged side members 11 to be turned against the neighboring sides 21 of the body, and disposing the links 12 with the supports 13 against the outer sides of the body. The pins 20 are then disposed through the orifices 39 and 40 in the hinged side members 11 and in the neighboring sides 21. The handle 28 is then lifted rearwardly, which pushes the link 30 backwardly to a horizontal position, thereby drawing on the link 41, which moves the slide bar 37, thereby locking the heads of the pins 20, which are disposed through the key slots 38. At the same time, by means of the pin and slot connection between the link 31 and the finger 35, the link 31 is erected, and by means of the sleeves 25, the extensible arms are raised. The extensible arms 23 are then adjusted to the desired length, and they are secured to this position by means of the cams 27. When thus adjusted the sleeves 55 are moved to the desired position with reference to the extensible arms 23 and they are secured in place by means of the cams 57. It then only remains to adjust the hood in order to have the go-cart ready for use. The central hood member 58 is pivoted loosely to the sleeves 55 so that it may be raised slightly relatively thereto to permit the fingers 56 to be disposed in the orifices in the curved flanges 59. When the central hood member is disposed in the position desired, the pivoted arms 60 of the hood are spread apart at their free terminals so that the cover 61

of the hood will serve as a protection from the sun. These pivoted arms 60 are held apart by means of the usual lock devices 76. If the handle is not of the desired length, it may be drawn outwardly and the pins 47 will be pressed into the orifices in the metal sleeves 43.

Having thus described our invention, we claim as new and desire to secure by Letters

10 Patent:—

1. In a folding go-cart, a body having two hinged members, a plurality of hinged means disposed in the body, the said members being adapted to open and lie against neighboring sides respectively of the body, the hinged means being adapted to lie against the said members when they are open, means to secure the hinged means against the said members and the said members against the said neighboring sides of the body, axles on the hinged means, and wheels journaled on the axles.

2. In a folding go-cart, a body having two hinged members, a plurality of hinged supports adapted to be disposed in the body and also to lie against the two said members when they are disposed against neighboring sides of the body, two flanges with orifices therein secured to each of the supports, rods disposed in the orifices respectively, a collar on each of the rods disposed between the flanges and adapted to contact with one of them, springs disposed on the rods between the collars and the other flanges respectively, axles secured to the rods respectively, wheels mounted on the axles, and means to secure the said members with the supports to the said neighboring sides of the body.

3. In a folding go-cart, a body having two hinged members, hinged links, supports hinged to the links respectively, rods, means to hold the rods yieldingly in a predetermined position relatively to the supports respectively, axles mounted on the rods, wheels mounted on the axles, the hinged supports, the rods, the axles and the wheels being adapted to be disposed in the body, and also being adapted to be disposed against the said members when they are open and disposed against neighboring sides of the body, and means to hold the said members with the supports against the said neighboring sides respectively of the body.

4. In a folding go-cart, a body having two hinged members, hinged links, supports hinged to the said links respectively, flanges on the supports, there being orifices in the flanges, rods having collars respectively which are adapted to engage one of the flanges respectively on the supports, springs disposed between the collars and other flanges respectively, axles on the rods, wheels mounted on the axles, and means to hold

the said members with the supports against neighboring sides respectively of the body.

5. In a folding go-cart, a body having two hinged members, hinged links, supports hinged to the links respectively adapted to be disposed within or without the body, rods, means to hold the rods yieldingly in a pre-determined position relatively to the supports, axles on the rods, wheels mounted on the axles, pins secured to the supports, the pins being adapted to be disposed in orifices in the said members and neighboring sides of the body, and means to secure the pins within the body.

6. In a folding go-cart, a body having two hinged members, hinged links connected to the body, supports hinged to the links respectively, rods, means to hold the rods yieldingly in pre-determined positions relatively to the supports, axles on the rods, wheels mounted on the axles, means to hold the said members with the supports against neighboring sides respectively of the body, a band on the edge of one of the members adapted to cover the joint between the two members, flanges at either end of the band, and means to secure the flanges to the body.

7. In a folding go-cart, a body having two hinged members, a plurality of hinged means disposed in the body, the members being adapted to open and lie against neighboring sides respectively of the body, the hinged means being adapted to lie against the said members when they are open, means to secure the hinged means against the members and the members against the said neighboring sides of the body, axles on the hinged means, wheels journaled on the axles, a band on the edge of one of the side members, adapted to cover the joint between the two side members, flanges at either end of the band, there being orifices in the flanges, pins in the body, and means to hold the pins yieldingly outward to engage the orifices in the flanges on the band.

8. In a folding go-cart, a body having two hinged members, a plurality of hinged means disposed in the body, the members being adapted to open and lie against neighboring sides respectively of the body, the hinged means being adapted to lie against the members when they are open, means to secure the hinged means against the members and the members against the said neighboring sides of the body, axles on the hinged means, wheels journaled on the axles, one of the ends of the body being hinged so that it may be extended outwardly, a band on the edge of one of the members adapted to cover the joint between the two members, flanges at either end of the band, one of which is adapted to hold the hinged end in a closed position, and means to secure the flanges to the body.

9. In a folding go-cart, a body having two hinged members, a plurality of hinged means normally disposed in the body, said hinged members being adapted to open and lie against neighboring sides respectively of the body, the hinged means being adapted to lie against the said hinged members when they are open, a pivoted handle for the body, and means to secure the hinged means against the said hinged members and the said hinged members against the said neighboring sides of the body adapted to be operated by the handle.

10. In a folding go-cart, a body, arms pivoted thereto, a toggle joint adapted to support the arms with their free terminals disposed above the body, a handle having handle bars pivoted to the body, and pin and slot connections between the handle bars and the toggle joint, so that the latter may be raised by operating the handle.

11. In a folding go-cart, a body having two members adapted to move relatively thereto, a plurality of means secured to the inner sides of the said members adapted to support axles, axles on the said means respectively, wheels mounted on the axles, and means adapted for securing the said members with the said means against the outer side of the body.

12. In a folding go-cart, a body having two members adapted to move relatively thereto, a plurality of hinged means normally disposed in the body, the said members being adapted to open and lie against neighboring sides respectively of the body, the hinged means being adapted to lie against the said members when they are open, means to secure the hinged means against the said members and the said members against the said neighboring sides of the body, axles on the hinged means, and wheels journaled on the axles.

13. In a folding go-cart, a body, arms pivoted thereto, links pivoted together adapted for supporting the arms with their free terminals disposed above the body, a handle having handle bars pivoted to the body, and pin and slot connections between the handle bars and the said links.

14. In a folding go-cart, a handle bar adapted to move relatively thereto, collapsible means for supporting wheels, bars, pin and slot connections between the collapsible means and the bars adapted for holding the collapsible means in place, and means by which the handle bar is adapted for operating the bars.

15. In a folding go-cart, a body having two hinged members at one of its sides, a plurality of hinged supports adapted to be disposed in the body and also to lie against the two said members when they are disposed against neighboring sides of the body, two flanges with orifices therein, se-

cured to each of the supports, rods disposed in the orifices respectively, means to hold the rods yieldingly in predetermined positions relatively to the flanges, and axles secured to the rods respectively.

16. In a folding go-cart, a body having two hinged members, a plurality of hinged means disposed in the body, the members being adapted to open and lie against the neighboring sides respectively of the body, the hinged means being adapted to lie against the members when they are open, means to secure the hinged means against the members and the members against the said neighboring sides of the body, axles on the hinged means, wheels journaled on the axles, a handle having handle bars pivoted in the body, and means connected with the handle bars to lock the means to secure the plurality of hinged means against the members.

17. In a folding go-cart, collapsible means adapted for supporting wheels, pins on the collapsible means, and bars having keyhole slots adapted for engaging the pins to hold the collapsible means in operative position.

18. In a folding go-cart, a body, collapsible means for supporting the wheels, wheels mounted thereon, arms pivoted to the body, links pivoted in the body for supporting the said arms, a handle having handle bars, links by which the handle bars are pivoted to the body, fingers on the handle bars, a pin and slot connection between the fingers and the first named links, pins with heads on the collapsible means, the pins being adapted to be disposed in orifices in the body, bars with key hole slots which are in alinement with the orifices in the body, and a third set of links which connect with the bars the links by which the handle bars are pivoted to the body.

19. In a folding go-cart, a body, collapsible means for supporting wheels, wheels mounted thereon, arms pivoted to the body, links pivoted in the body for supporting the said arms, a handle having handle bars, links by which the handle bars are pivoted to the body, fingers on the handle bars, a pin and slot connection between the fingers and the first named links, pins with heads on the collapsible means, the pins being adapted to be disposed in orifices in the body, bars with key hole slots which are in alinement with the orifices in the body, a third set of links which connect with the bars the links by which the handle bars are pivoted to the body, and means to hold the handle bars rearwardly.

20. In a folding go-cart, a body, collapsible means for supporting the wheels, wheels mounted thereon, arms pivoted to the body, links pivoted in the body for supporting the said arms, a handle having handle bars, links

by which the handle bars are pivoted to the body, fingers on the handle bars, a pin and slot connection between the fingers and the first named links, pins with heads on the collapsible means, the pins being adapted to be disposed in orifices in the body, bars with key hole slots which are in alinement with the orifices in the body, a third set of links which connect with the bars the links by which the handle bars are pivoted to the body, pins in the body adapted to engage the handle bars to prevent them from moving forwardly, and means to hold the pins yieldingly extended.

21. In a folding go-cart, a body, arms pivoted thereto, pivoted means adapted to support the arms with their free terminals disposed above the body, a handle having handle bars, the handle bars having pivoted connection with the body, means by which the handle bars are adapted to operate the first-named means, pins adapted to engage and prevent the handle bars from moving inwardly when they are raised, and means adapted for holding the pins yieldingly in predetermined positions.

22. In a folding go-cart, a body having two hinged members, links hinged to the hinged members, supports hinged to the links respectively, rods, means adapted for holding the rods yieldingly in predetermined positions relatively to the supports, axles on the rods, wheels mounted on the axles, pins with heads secured to the supports, the pins being adapted to be disposed in orifices in the said members and in the neighboring sides of the body, arms pivoted in the body, links pivoted to the body adapted for supporting the arms, a handle having handle bars, links by which the handle bars are pivoted to the body, fingers on the handle bars, pin and slot connections between the fingers and the second-mentioned links, bars with keyhole slots which are in alinement with the orifices in the neighboring sides of the body, and a third set of links which connect with the said bars the links to which the handle bars are pivoted.

23. In a folding go-cart, a body having two members hinged thereto, a plurality of means for supporting wheels hinged to the said members, the said means being adapted to be disposed within the body or against the members when they are open, and means for securing the said means against the said members when they are open.

24. In a folding go-cart, a pivoted handle bar, collapsible means adapted for supporting wheels, pins on the collapsible means, bars having keyhole slots adapted for engaging the pins for holding the collapsible means in operative position, and links connecting the handle bar with the bars by which the former is adapted to operate the latter.

25. In a folding go-cart, a body, handle bars, links connecting the handle bars with the body, collapsible means adapted for supporting wheels, pins on the collapsible means, bars having keyhole slots adapted for engaging the pins for holding the collapsible means in operative position, and additional links connecting the first-named links with the bars.

26. In a folding go-cart, a body, handle bars, links connecting the handle bars with the body, collapsible means adapted for supporting wheels, pins on the collapsible means, bars having keyhole slots adapted for engaging the pins for holding the collapsible means in operative position, and additional links pivoted to the first-named links, there being pin and slot connections between the additional links and the said bars.

27. In a folding go-cart, a body having two hinged members, a plurality of means normally disposed in the body, adapted for supporting axles, the said members being adapted to open and lie against neighboring sides respectively of the body, the plurality of means being adapted to lie against the said members when they are open, means to secure the plurality of means against the said members and the said members against the said neighboring sides of the body, axles on the plurality of means, and wheels journaled on the axles.

28. In a folding go-cart, a body having two members movable relatively thereto, a plurality of hinged means disposed in the body, the said members being adapted to open and lie against neighboring sides respectively of the body, the hinged means being adapted to lie against the said members when they are open, means adapted to secure the hinged means against the said members and the said members against the said neighboring sides of the body, axles on the hinged means, and wheels journaled on the axles.

29. In a folding go-cart, a body having two hinged members, means normally disposed in the body adapted for supporting wheels, the said members being adapted to open and lie against neighboring sides respectively of the body, the said means being adapted to lie against the said members when they are open, means to secure the said means against the said members and the said members against the said neighboring sides of the body, axles on the first-mentioned means, and wheels journaled on the axles, a third member of the body being hinged thereto and being adapted to project outwardly at the front of the body.

30. In a folding go-cart, a body having two hinged members, means normally disposed in the body adapted to be secured to the outer side of the body to serve as supports for wheels, means adapted for secur-

ing the hinged members to the outer sides of the body, a band on the edge of one of the two hinged members adapted to cover the joint between the said two hinged members
5 when they are closed, and means adapted for detachably securing the band to the body.

31. In a folding go-cart, a body having two hinged members, means normally disposed in the body adapted to be secured to
10 the outer side of the body to serve as supports for wheels, means for securing the

hinged members to the outer side of the body, and means for securing the said two members to the body in closed positions.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

MORRIS FOLGEMAN.
ALEXANDER KRAUS.

Witnesses:

SIGMUND WEITZEN,
CHARLES THALER.