

O. NILSSON.
FOLDING GO-CART.
APPLICATION FILED MAR. 29, 1911.

1,025,292.

Patented May 7, 1912.

3 SHEETS-SHEET 1.

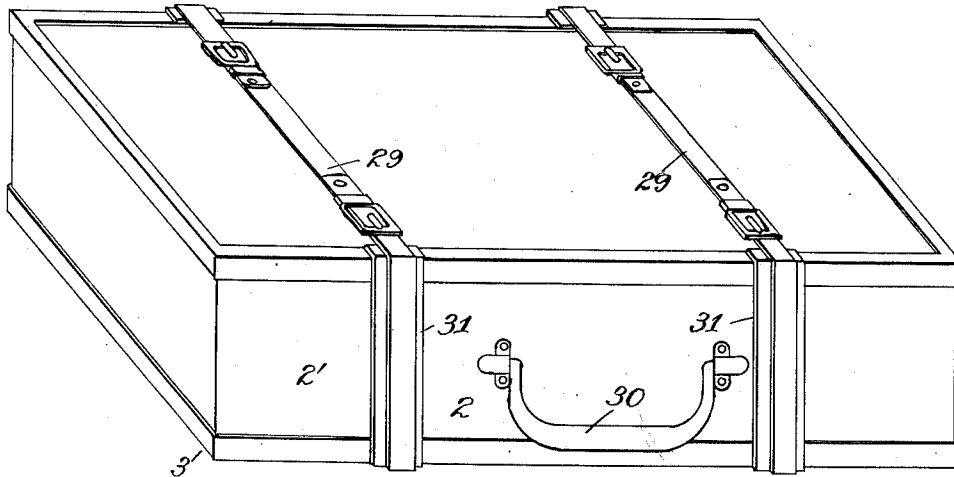


Fig. 1.

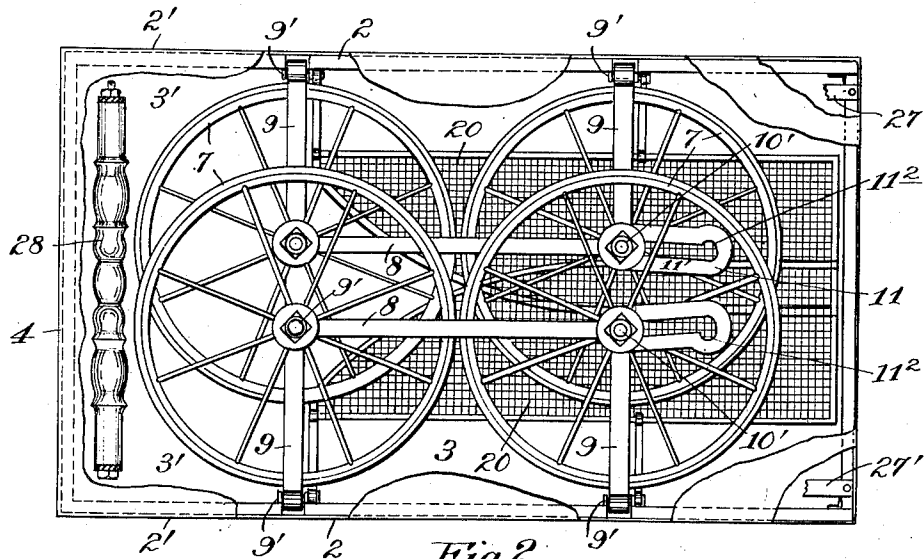


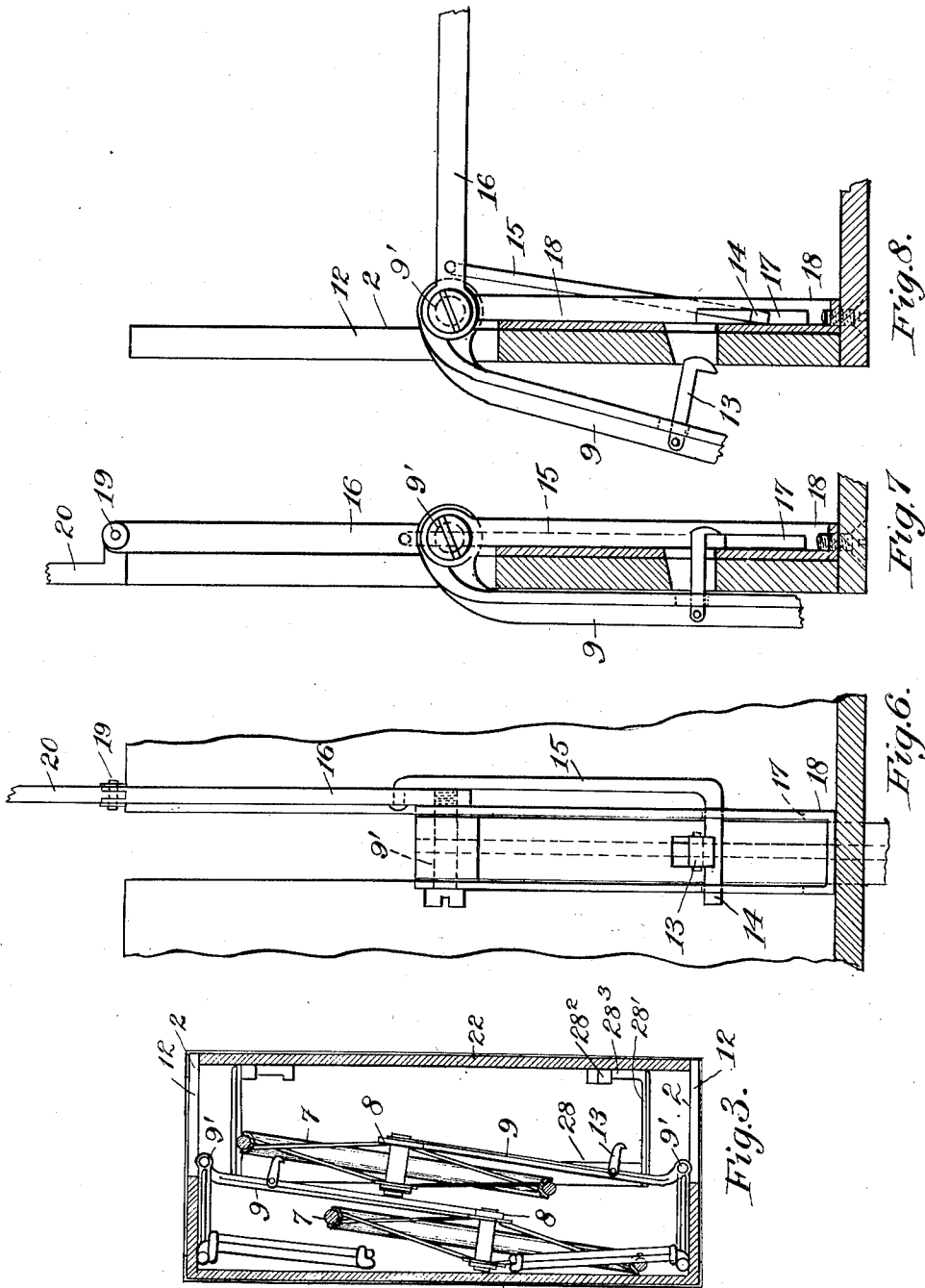
Fig. 2.

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3 SHEETS—SHEET 2.



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3 SHEETS—SHEET 3.

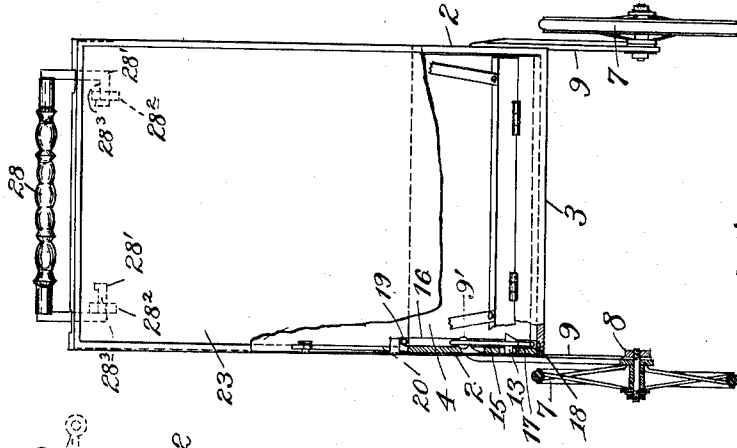


Fig. 5.

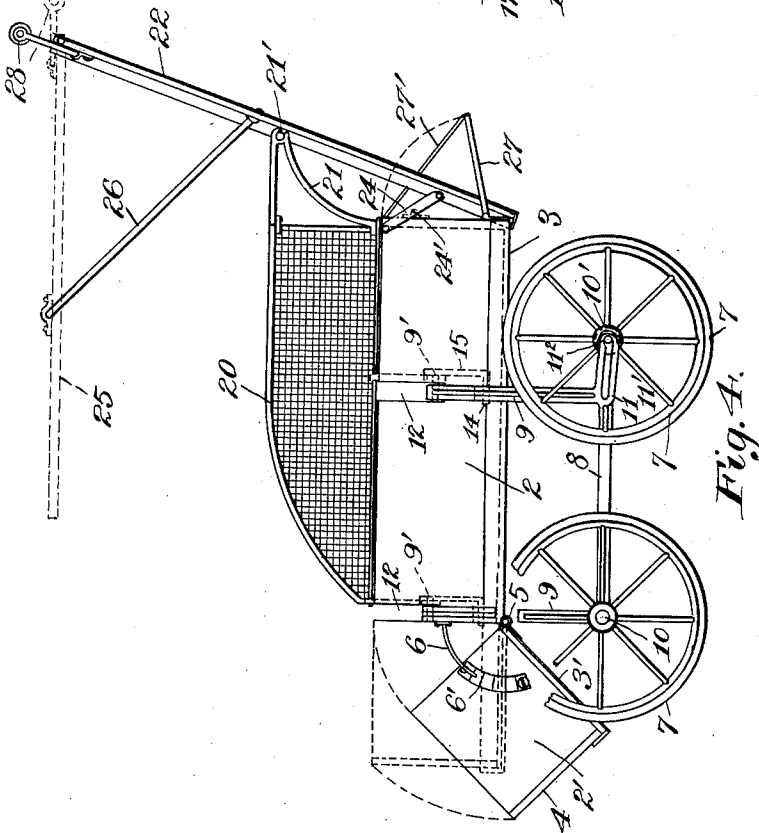


Fig. 4.

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UNITED STATES PATENT OFFICE.

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FOLDING GO-CART.

1,025,292.

Specification of Letters Patent.

Patented May 7, 1912.

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To all whom it may concern:

Be it known that I, OTTO NILSSON, of the borough of Bronx, city and State of New York, have invented a certain new and useful Improvement in Folding Go-Carts, of which the following is a specification.

That which forms the bottom, forward end and main portions of the sides of the present go-cart constitute four of the faces of a receptacle having rigidly connected sides and bottom and in external appearance resembling an article such as a suit case or satchel, the running gear and other go-cart features folding into the body of the article.

One of the main features of the invention relates to the construction and adaptation of side extensions of the cart for the purpose of locking the extended running gear in operative position. These features together with various others comprised in the invention are set forth in the accompanying drawings in which—

Figure 1 is a perspective view of a suit case or satchel in the body of which a go-cart embodying the features of my invention is assumed to have been folded. Fig. 2 is a plan view thereof, a portion of the top being removed to show the folded-in parts underneath. Fig. 3 is an end elevation of Fig. 2, the end of the case being removed. Fig. 4 is a side elevation of the unfolded cart. Fig. 5 is an end elevation, part of the back being broken away. Fig. 6 is an enlarged detail side elevation of the means for locking the running gear at one side of the cart. Figs. 7 and 8 are further detail elevations of such locking means, the former figure showing the parts in their locked position and the latter figure representing the parts in a position assumed during the operation of folding.

Similar characters of reference designate corresponding parts in all figures.

The main portions of the sides and bottom of the cart constitute corresponding portions of a receptacle with rigidly connected sides and bottom, such as a suit case, see sides 2, 2 and bottom 3; a portion at one end of the suit case comprising sides 2¹, 2¹, bottom 3¹ and end board 4 having a hinged connection, see 5, with the aforesaid bottom 3, adapting this end part to be tilted downward in the unfolded cart, see Fig. 4, and form a foot rest for the cart occupant.

This tilting foot rest may be held in its horizontal or its inclined position by a co-operating spring finger 6 and notched plate 6¹, one on each side.

The running gear at each side comprises a pair of wheels 7, 7 carried by a frame comprising a longitudinal bar 8 and rigidly therewith transverse bars 9, 9, each of which latter is fulcrumed on a corresponding pin 9¹ the axes of which are disposed longitudinally of and at the side of the cart. Axle 10 for the forward wheel 7 is rigid with bar 8 but axle 10¹ for the rear wheel is adapted to be shifted lengthwise of a slot 11¹ in a rearward extension 11 of the bar 8, the axle being at the forward end of the slot for folding and being shifted to the rear end thereof when the cart is in use to prevent the backward tipping of the loaded cart. In this rearward position the axle may be seated in a transverse notch 11² of the slot 11¹.

By reason of the fulcrumed connection described, each wheel-carrying side frame may be swung from a position inside the case or cart body, see Fig. 2, corresponding to a folded condition, to the position indicated in Fig. 4, corresponding to an unfolded condition, suitable slots 12 being provided for the passage of the transverse bars 9 of the frame.

In order to lock the wheel-carrying frames when swung out under the cart, each bar 9 thereof is provided with a pivotally mounted catch or dog 13 adapted to engage with a locking pin 14 extending transversely from a corresponding toggle bar 15 jointed to a fulcrum bar 16 adapted to turn about the corresponding aforementioned pin 9¹.

Each pin 14 is confined in its movement from a locking to an unlocking position and vice versa, by a slot 17 in a fixture 18 while the two fulcrum bars 16, 16 at each side are pivoted, see 19, to an upper side extension 20 thereby permitting the latter to be moved from its folded position in which it lies flat against the bottom of the cart body (the two fulcrum bars then lying against the corresponding side of the latter) upward and outward on top of the side 2, thus drawing the locking pins 14 on toggle bars 15 to their locking positions in engagement with dogs 13. Each side extension 20 may be held in its extended, corresponding to the aforesaid locking, position by means of a correspond-

ing bracket 21 hinged to the extension and adapted to engage with a button or pin 21¹ on the side bar 22 of the unfolded top cover 23 of the case.

- 5 Each such side bar 22 is linked to the contiguous side 2, see link 24, in such a manner as to permit the top cover 23 of the case to be swung over from a position in which it constitutes a part of the case, see Fig. 1, to a position in which one end thereof hooks 10 under the cart body see Fig. 4, each link 24 being provided with a stop 24¹ adapted to abut against the end of the cart body thereby defining the rearwardly inclined position 15 of the case top. Preferably, the inner space of this top is closed by a panel 25 hinged to the upper end of the inclined or unfolded top and adapted to be swung outward and forward to constitute a canopy or sun shade, 20 links 26 being provided to hold the canopy in its extended position.

- The cart body is provided with a hinged back board 27 which may be dropped down to an inclined position being there held by 25 tension pieces, see 27¹, 27¹. A handle for the cart provided with squared end extensions 28¹, 28¹ slidably mounted in corresponding bearings 28², 28² may be shifted from a position of use in which the squared 30 parts engage with the bearings to a position in which reduced parts 28³, 28³ engage with the bearings. In this latter position the handle may be laid down against the panel. The case may be provided with the usual 35 binding straps 29, 29, and carrying handle 30. Closures 31 for the slots 12 in sides 2 are also indicated.

Having described my invention, I claim:—

- 40 1. In a folding go-cart, the combination with a cart body comprising rigid side and

bottom portions and a foot rest having a hinged connection with said cart body and comprising extensions of the side and bottom portions thereof, of wheel-carrying frames having a hinged connection with 45 said side portions and adapted to swing from a position within said body to a position at the side thereof.

2. In a folding go-cart, the combination with a cart body comprising rigid side and 50 bottom portions, of wheel-carrying frames having a hinged connection with said side portions and adapted to swing from a position within said body to a position at the side thereof and laterally foldable side 55 extensions whose axes coincide with the respective axes of the wheel-carrying frames for locking said frames in their extended position.

3. In a folding go-cart, the combination 60 of a cart body having a hinged foot rest at one end and a hinged back board at the other end, wheel-carrying frames adapted to swing from a position in the cart body to a position at the side thereof, hinged side 65 extensions, locking dogs on said frames, toggle bars jointed to said side extensions, locking pins extending from the toggle bars, a cart body cover linked thereto and adapted to be swung to a cart-back-forming position 70 and hinged locking brackets mounted on said side extensions and adapted to engage with the swung out cover.

In testimony whereof I have signed this specification in the presence of two 75 subscribing witnesses.

OTTO NILSSON.

Witnesses:

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