

Nov. 7, 1944.

L. P. BRANTZ

2,362,186

CHAIR CART

Filed Aug. 5, 1943

3 Sheets-Sheet 1

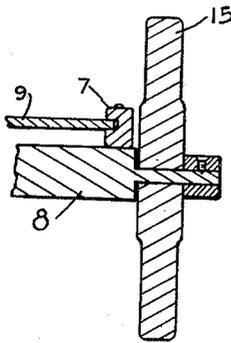


FIG. 7

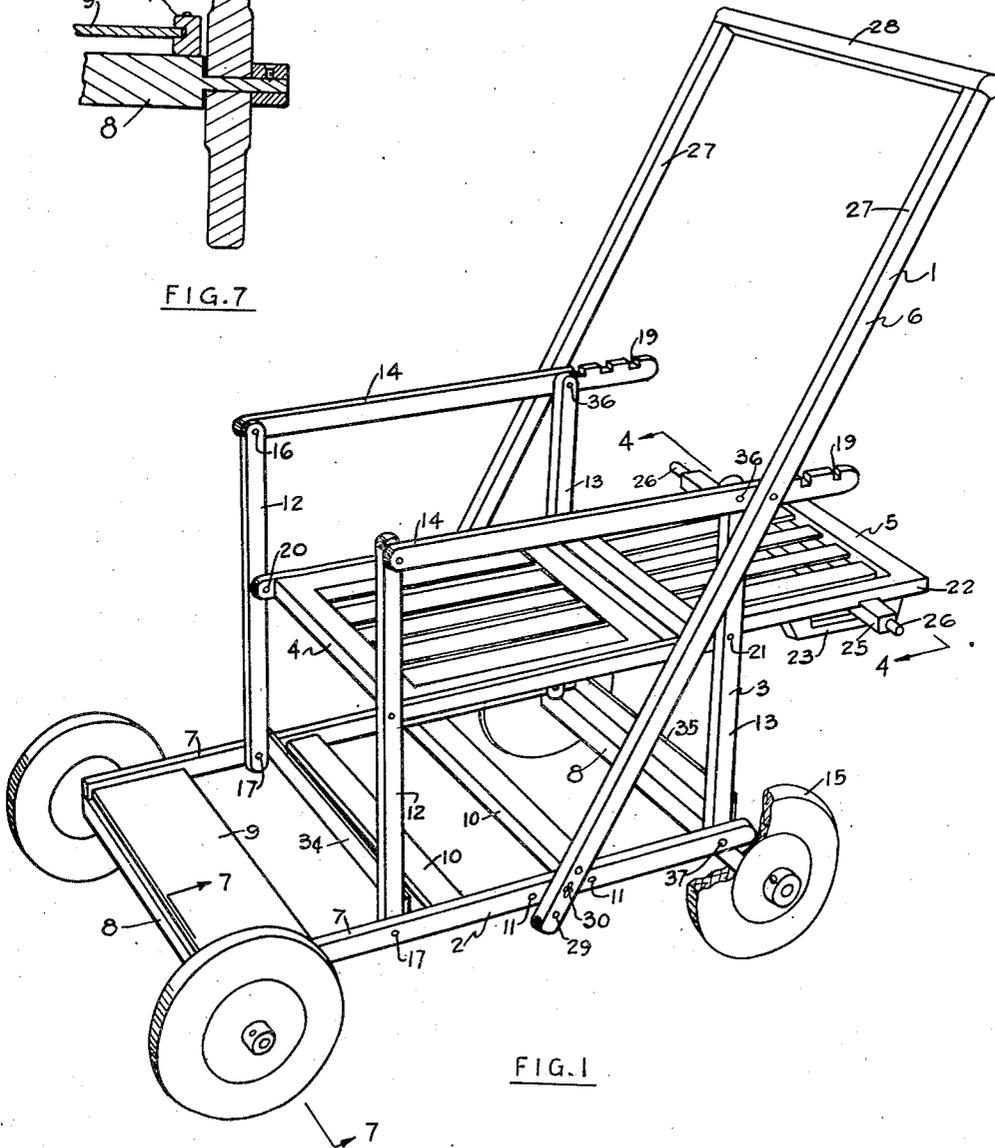


FIG. 1

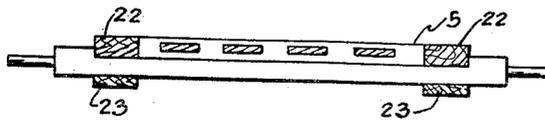


FIG. 4

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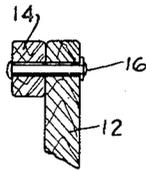


FIG. 6

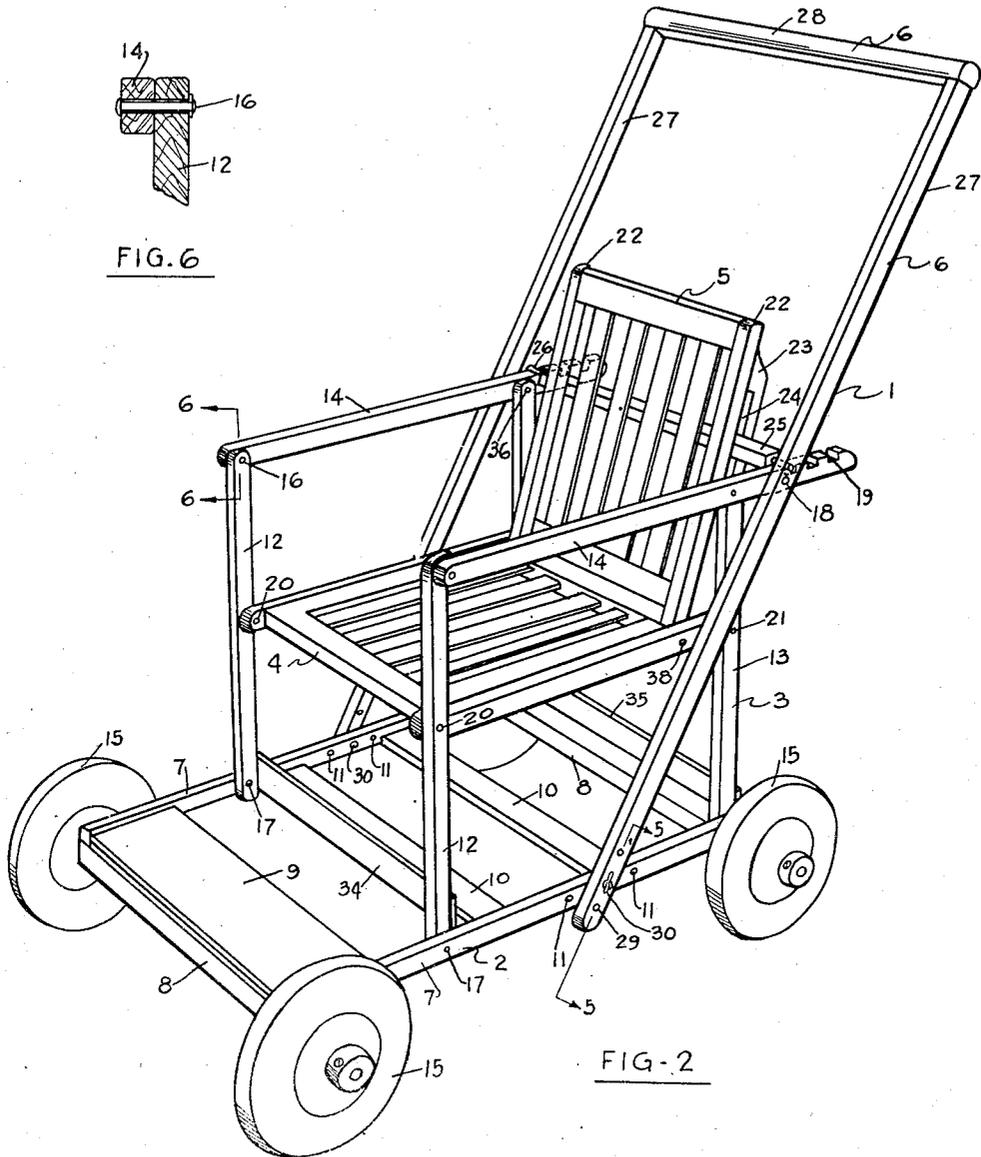


FIG. 2

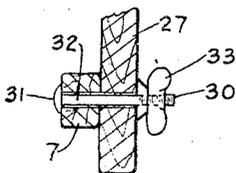


FIG. 5

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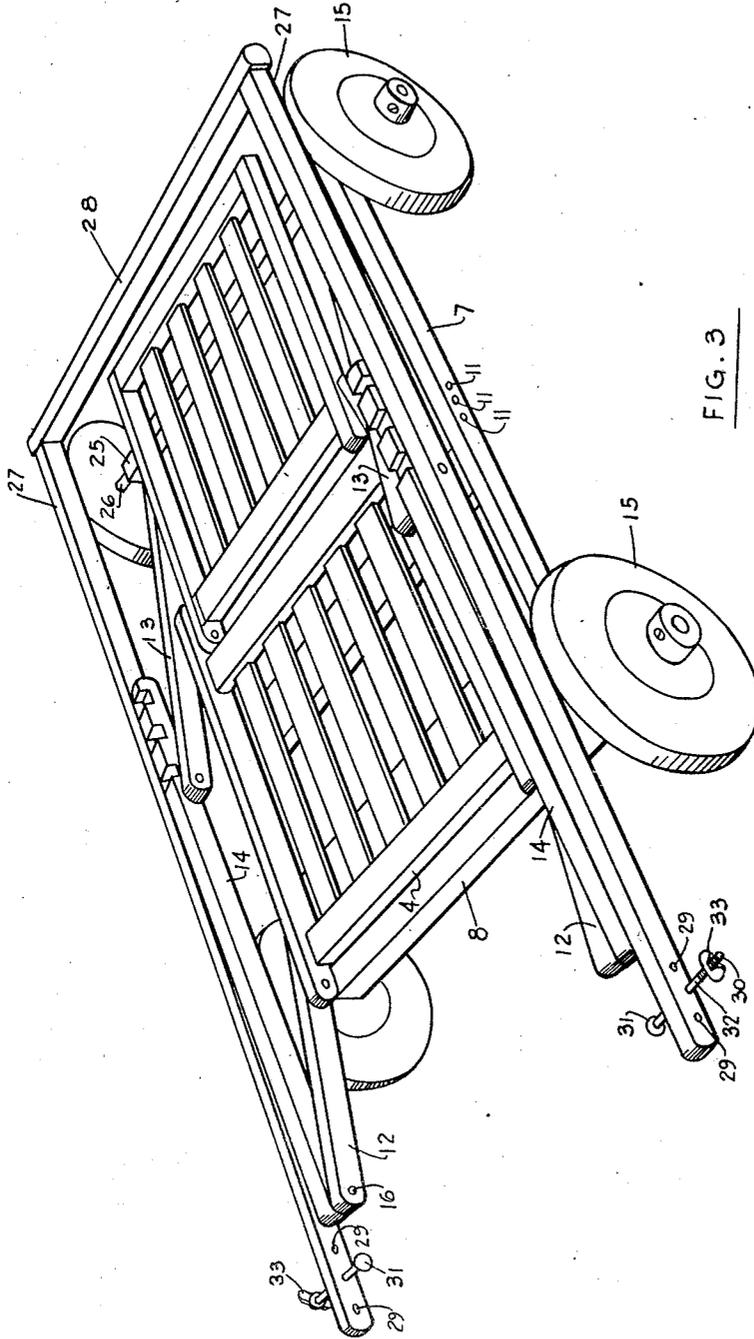
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2,362,186

CHAIR CART

Louis P. Brantz, Philadelphia, Pa.

Application August 5, 1943, Serial No. 497,516

4 Claims. (Cl. 280—36)

This invention relates to folding chair carts, also known as folding strollers, and has as its object the production of a new and improved device of this type.

More particularly stated, it is one of the objects of my invention to simplify the latching means for holding folding chair carts in the operative position.

It is a further object of this invention to simplify the latching structure of the back rest of folding chair carts.

It is a still further object of my invention to produce a folding chair cart which will be comparatively simple in structure and comparatively easy to manufacture.

For the purpose of illustrating my invention with the particularity required by law, I have shown in the drawings which form a part hereof and will now describe one of the many possible physical embodiments of my inventive concepts.

In said drawings,

Figure 1 is a perspective view of my novel chair cart in its unfolded or operative position. A portion of one of the rear wheels has been broken away to show otherwise hidden parts. The adjustable back rest is shown in a horizontal position for the purpose of clearness.

Figure 2 is a perspective view of my novel chair cart in its operative position with the back rest in the innermost of its upright or operative positions.

Figure 3 is a perspective view of my novel chair cart in its folded position.

Figure 4 is a section along the line 4—4 of Figure 1.

Figure 5 is a section along the line 5—5 of Figure 2.

Figure 6 is a section along the line 6—6 of Figure 2.

Figure 7 is a section along the line 7—7 of Figure 1.

Referring more particularly to the drawings wherein similar reference numerals denote similar parts, reference numeral 1 designates my novel chair cart as a unit.

The chair cart 1 consists of a base frame 2 supported on wheels 15, a vertical frame 3 carried by said base frame, a seat 4 supported by said vertical frame 3, a back rest 5 pivoted along one of its edges in said seat 4, and a cross handle 6 carried by said vertical frame 3.

The base frame 2 consists of two spaced apart bars 7, two spaced apart axles 8 attached to said bars 7, a foot rest 9 carried by said bars 7, and

slats 10 which serve both as bracers for the base frame 2 and as supports for any packages which the pusher of the chair cart may desire to have the chair cart carry.

5 The vertical frame 3 consists of two spaced front columns 12, two spaced rear columns 13, and two arm-rests 14. The upper end of each of the front columns 12 is pivotally connected to that arm rest 14 which is contiguous thereto, as shown at 16, and the lower end of each of said front columns 12 is pivotally connected to the bar 7 which is contiguous thereto, as shown at 17. Similarly the upper end of each of the rear columns 13 is pivotally connected to the arm rest 14 which is contiguous thereto, as shown at 36, and the lower end of each of said rear columns 13 is pivotally connected to the bar 7 which is contiguous thereto, as shown at 37. The front columns 12 have attached thereto near the lower ends thereof the slat 34 and the rear columns 13 have attached thereto near the lower ends thereof the slat 35. The slats 34 and 35 serve as stop members for the packages which are placed on the slats 10.

25 The seat 4 is pivotally attached at its front end to each of the front columns 12, as shown at 20, and at its rear end to each of the rear columns 13, as shown at 21.

30 The back rest 5 consists of a body member having the sides 22 each of which is pivotally attached at its lower end to the seat 4, as shown at 38, a channel forming arm 23 U shaped in cross-section attached to each of said sides 22 with the U facing inwardly thereby forming two spaced apart slots 24 on said back rest 5, and a back rest latching bar 25 slidably mounted in said slots 24. The back rest latching bar 25 terminates at each of its ends in a pin 26 each of which is received in suitable notches 19 formed in the arm rest 14 which is contiguous thereto to hold said back rest 5 in any one of a number of vertical positions.

40 The cross-handle 6 consists of a handle 28 and two spaced apart arms 27 which are attached to said handle. As shown at 18, each of said arms 27 is pivotally attached at a point intermediate its ends to the arm rest 14 which is contiguous thereto. Each of said arms has formed therein near the lower end thereof a plurality of positioning apertures 29 which are adapted to register with similar apertures 11 formed in the bars 7. The registering apertures 11 and 29 receive the fly bolt 30 which clamps said arm 27 to said bar 7 thereby latching the chair cart in its operative position.

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The pivotal attaching means 16, 17, 18, 20, 21, 36, 37 and 38 are identical in structure and may be of any well known type. One of these is shown in Figure 6.

The fly bolt 30 may be of any well known type. One of these is shown in Figure 5 and consists of a body 32 terminating at one end in a head 31 and at its other end in a threaded portion which receives the fly nut 33.

It is clear from the foregoing description that the latching bar 25 combines with the notches 19 to form a structure whereby the back rest may be readily latched in any one of a plurality of positions. The number of these positions is determined by the number of notches.

It is also clear from the foregoing description that the apertures 11 in the bar 7 of the base frame 2, the apertures 29 in the arms 27 of the cross-handle 6, and the fly bolt 30 combine to latch the chair cart in any one of a plurality of desired positions. The number of these positions is determined by the number of apertures 29 and 11.

It is also clear from the foregoing description that since each of the arms 27 of the cross-handle 6 is continuous, the structure which latches the chair cart in its operative position is not only simple but it has the additional advantage of making it impossible for the chair cart to buckle and collapse once it has been latched in the operative position.

Having described my invention what I claim as new and useful is:

1. A chair cart comprising a base frame comprising a pair of spaced bars, each having a plurality of anchoring apertures formed therein, attached to a pair of spaced apart axles which are supported on wheels; a pair of spaced apart columns pivotally attached to each of said base frame bars near the respective ends of each of said columns; a seat pivotally attached to each of said columns intermediate the respective ends of said columns; two arm rests, each pivotally attached to one of said pairs of columns, each terminating in a portion which extends beyond the point of attachment to one of said columns and which has formed therein a plurality of latching pin receiving notches; a back rest pivotally attached near its lower ends to said seat; a slot formed in said back rest; a latching bar, terminating at each of its ends in a latching pin each positioned for being received in any one of said arm rest latching pin receiving notches of the arm rest which is contiguous thereto, mounted for horizontal movement in said back rest slot; a cross handle consisting of a handle portion and a pair of spaced continuous arms each attached to said handle portion and each pivotally attached to one of said arm rests at a point intermediate their respective ends, each of said cross handle arms having formed therein near the lower end thereof a plurality of anchoring apertures positioned for registry with the anchoring apertures formed in said base frame bars; and means extending through said anchoring apertures when in registry for detachably attaching each of said cross handle arms to one of said base frame bars.

2. A chair cart comprising a base frame comprising a pair of spaced bars, each having a plurality of anchoring apertures formed therein, attached to a pair of spaced apart axles which are supported on wheels; a pair of spaced apart columns pivotally attached to each of said base frame bars near the respective ends of each of said columns; a seat pivotally attached to each of said columns intermediate the respective ends of said columns; two arm rests, each pivotally attached to one of said pair of columns, terminating in a portion which extends beyond the point of attachment to one of said columns and which has formed therein a plurality of latching pin receiving notches; a cross handle consisting of a handle portion and a pair of spaced continuous arms each fixedly attached to said handle portion and each pivotally attached to one of said arm rests at a point intermediate their respective ends, each of said cross handle arms having formed therein near the lower end thereof a plurality of anchoring apertures positioned for registry with the anchoring apertures formed in said base frame bars; and means extending through said anchoring apertures when in registry for detachably attaching each of said cross handle arms to one of said base frame bars.

3. In a chair cart comprising a base frame mounted on wheels, a seat supporting member carried by said base frame, a seat carried by said seat supporting member, arm rests carried by said seat supporting member, a cross handle carried by said arm rests, and a back rest pivoted at one of its ends in said seat,—means for latching said back rest, said means consisting of an extension formed on each of said arm rests, each of said extensions having a plurality of latching pin receiving notches formed therein; two spaced channels formed on said back rest; and a latching bar, terminating at each of its ends in a latching pin each positioned for being received in any one of said arm rest latching pin receiving notches of the arm rest which is contiguous thereto, mounted for horizontal movement in said back rest slot.

4. In a chair cart comprising a base frame mounted on wheels, a seat supporting member carried by said base frame, a seat carried by said seat supporting member, arm rests carried by said seat supporting member, a cross handle carried by said arm rests, and a back rest pivoted at one of its ends in said seat,—means for latching said back rest, said means consisting of an extension formed on each of said arm rests, each of said extensions having a plurality of latching pin receiving notches formed therein; two spaced channel forming arms U shaped in cross section attached to said back rest with the mouth of the U facing the rear face of said back rest thereby forming two spaced channels on said back rest; and a latching bar, terminating at each of its ends in a latching pin each positioned for being received in any one of said arm rest latching pin receiving notches of the arm rest which is contiguous thereto, mounted for horizontal movement in said back rest slot.

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