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PACK AND GAME CARRIER

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Fig. 1.

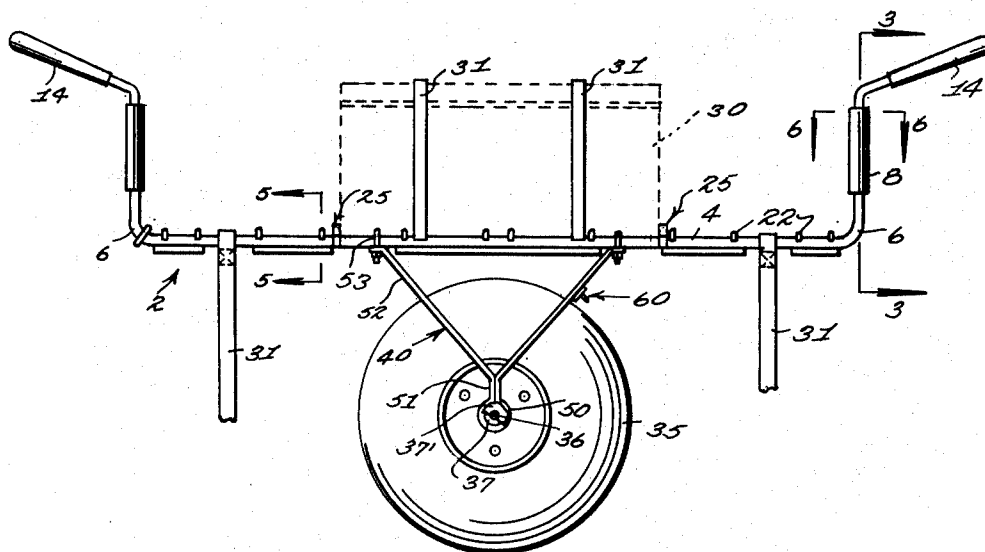


Fig. 2.

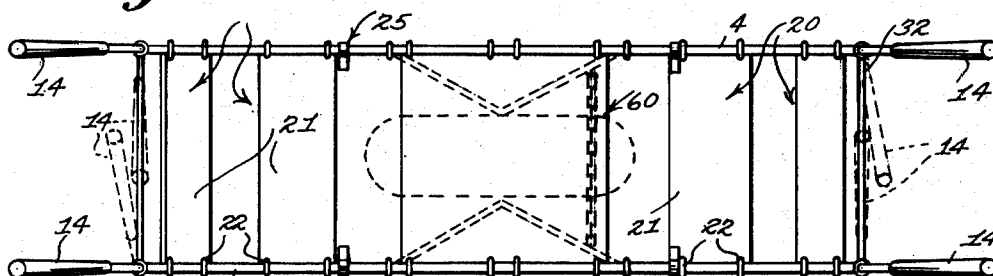
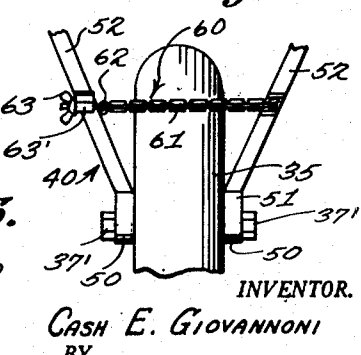
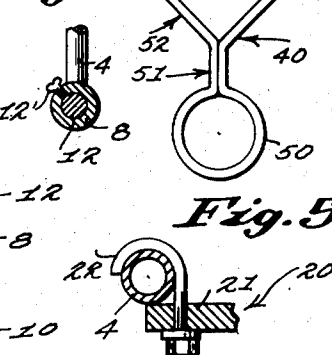
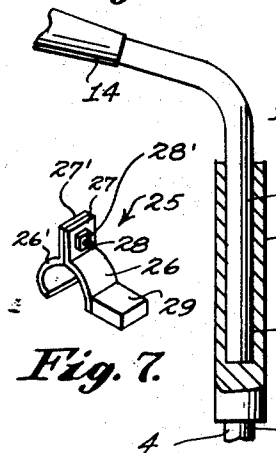


Fig. 3.

Fig. 6.

Fig. 4.

Fig. 8.



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PACK AND GAME CARRIER

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1 Claim. (Cl. 280—58)

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This invention relates to land vehicles, and more particularly to a vehicle especially designed for use by hunters and fishermen in transporting their packs and game over mountain trails or other extraordinarily rough terrain.

A main object of the invention is to provide a novel and improved mono-wheel vehicle device which may be operated optionally by either one or by two individuals.

A further object of the invention is to provide a mono-wheel pack and game carrier of relatively light weight, of simple construction, which is inexpensive to manufacture and which requires a minimum amount of maintenance.

A still further object of the invention is to provide a hand vehicle as above described having means for adjusting the height and direction of each handle bar thereof to suit the convenience of the operator.

A still further object of the invention is to provide a pack vehicle as above described having adjustable stop means for inhibiting the shifting of a pack on the frame of the vehicle.

A still further object of the invention is to provide a vehicle as above described having improved means for adjustably securing a pack on the vehicle frame.

Other and further objects and advantages of the invention will become apparent from the following description and claim, when read in conjunction with the annexed drawings, in which:

Figure 1 is a side elevation of a pack vehicle or carrier constructed in accordance with the present invention;

Figure 2 is a top plan view of the vehicle shown in Figure 1;

Figure 3 is a cross-sectional view taken on line 3—3 of Figure 1, partly in elevation, showing details of the handle construction;

Figure 4 is a partial side elevational detail view of the axle clamp and frame supporting braces employed in the vehicle of Figure 1;

Figure 5 is an enlarged cross-sectional detail view, taken on the line 5—5 of Figure 1, showing details of the adjustable pack-supporting means;

Figure 6 is an enlarged cross-sectional view taken on line 6—6 of Figure 1, showing further details of the handle construction;

Figure 7 is a perspective view of the adjustable pack stop means employed in the vehicle of Figure 1;

Figure 8 is a partial end elevation showing details of the mud scraper employed on the vehicle of Figure 1.

Referring now more particularly to the draw-

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ings, reference numeral 2 indicates in general a vehicle or carrier constructed according to the teachings of this invention. The vehicle comprises a pair of coextensive, spaced parallel frame side bars 4 formed of continuous metal tubing or the like. Each frame member 4 comprises a straight horizontal main portion and upwardly directed end portions 6, 6. Secured to each vertical end portion 6 of each frame member 4 is a sleeve member 8 having a bore 10 receiving the end portion 12 of a handle bar 14. The upper portion of each handle bar extends at a substantial angle with respect to its end portion 12, as shown in Figure 3. The end portion 12 of each handle bar may be locked in an adjusted position in its bore 10 by a set screw 12' inserted through the wall of the associated sleeve member 8.

Extending horizontally between the frame bars 4 are a plurality of longitudinally-spaced bottom pieces 20. These bottom pieces comprise flat support plates 21, each being provided at each end thereof with a pair of inverted hook bolts 22 spaced apart and disposed with the open sides thereof facing outwardly. These hook bolts engage around the upper surfaces of the frame members, as shown in Figure 5, so as to clamp the plates 21 against the under side of the frame members. The bottom plates 20 further serve as transverse frame braces, acting to hold the bars 4, 4 in rigid parallel spaced relation.

Designated at 25 are adjustable stop members, two of such members being carried by each frame bar 4, as shown in Figure 2. Each stop member 25 comprises a first arcuate segment 26 provided with an inwardly-directed stop plug 29 and an arcuate clamping segment 26' releasably secured to the first segment 26, as shown in Figure 7, by respective radial lugs 27 and 27' provided on the segments 26 and 26', through which pass a clamping bolt 28 provided with a nut 28'. The arcuate segments 26, 26' are engaged around the frame bars 4 with the stop lugs 29 directed inwardly, as shown in Figure 2, or upwardly as shown in Figure 1, bolts 28 being tightened to secure the stop members in selected locations on the frame, such as in abutment with the ends of a pack load 30 carried on the frame, as shown in Figure 2. Suitable belt straps 31 are secured at longitudinally-spaced locations on the frame bars and may be arranged to engage over the pack and be secured together to fasten the load down onto the bottom plates 20 supporting same.

On each end of the frame, spacer brace rods 32 extend between and are secured to the spaced bars of the frame.

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The entire frame structure described above is supported on a single wheel 35 located centrally beneath the frame and disposed longitudinally thereof. The wheel carries an axle 36 rotatably mounted in a bearing hub 37, and the axle hub 37 extends axially outwardly on each side of the wheel.

The frame is supported on the extended wheel hubs by a pair of V-shaped braces generally indicated at 40. These braces 40 consist of split rings 50 encircling the wheel hub, which terminate in vertical portions 51 extending upwardly from ring 50 for a substantial distance, and which then separate to diverge upwardly and outwardly, defining a pair of arms 52. These arms are secured to the under side of the frame bars 4 by longitudinally-spaced U-bolts 53. Hexagonal nuts 37', 37' are threaded on the ends of axle 36 and secure the rings 50, 50 in place.

Designated at 60 is a mud scraper located in close adjacency to the wheel and which is secured to the arms 52 of the spaced supports 40 adjacent to an upper part of the periphery of the wheel. The scraper comprises a link chain 61 secured at one end to one of the support braces and removably secured by means of a threaded eye bolt 62 and wing nut 63 to a bracket 63' fastened on the opposite brace. In this manner the chain is stretched transversely of the frame in close proximity to the periphery of the wheel 35.

While a specific embodiment of a pack-carrying vehicle has been disclosed in the foregoing description, it will be understood that various modifications within the spirit of the invention may occur to those skilled in the art. Therefore, it is intended that no limitations be placed on the invention except as defined by the scope of the appended claim.

What is claimed is:

In a pack carrier, a wheel, a pair of horizon-

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tally disposed frame bars arranged in parallel spaced relation positioned longitudinally of and supported upon said wheel, a vertically disposed portion at each end of said bars, a brace rod extending transversely of said frame bars inwardly of and adjacent to each of said vertical end portions and secured to said frame bar, a handle attached to each of said vertical portions, a plurality of flat support plates arranged transversely of said bars between said brace rods and slidably movable relative to each other along said frame bars to form a platform for support of a pack load thereon, a pair of stop members positioned on each of said frame bars between said brace rods and movably and adjustably connected to said frame bar, the stop members on said frame bars receiving therebetween and abutting against a pack load when supported on said support plates, and a plurality of straps arranged in longitudinal spaced relation along each of said frame bars intermediate said brace rods and each having one end secured to said frame bar, said straps being adapted to extend about a pack load when supported on said support plates and be secured together.

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