

June 7, 1949.

S. FRIEDMANN ET AL
COLLAPSIBLE PARCEL CARRIER

2,472,203

Filed July 18, 1947

2 Sheets-Sheet 1

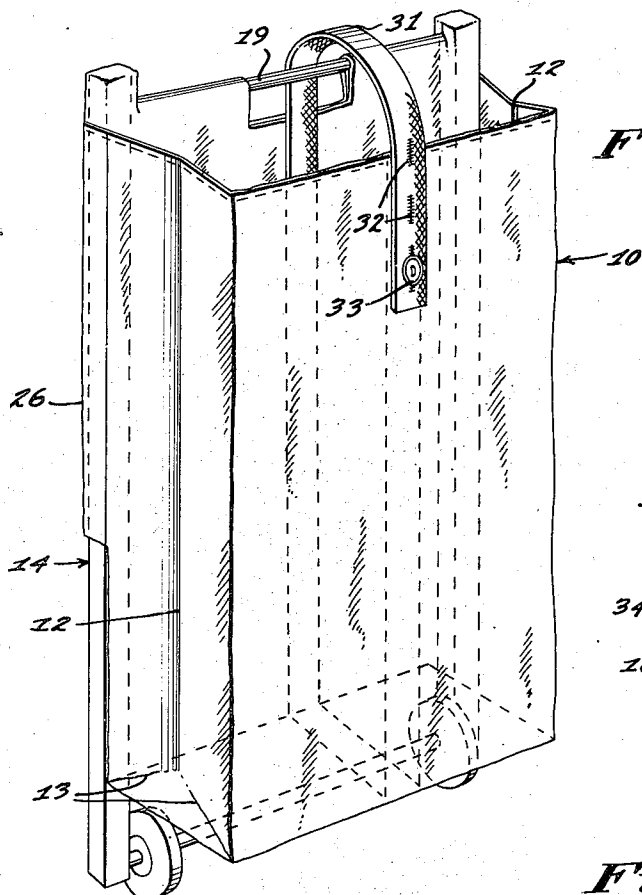


Fig. 1

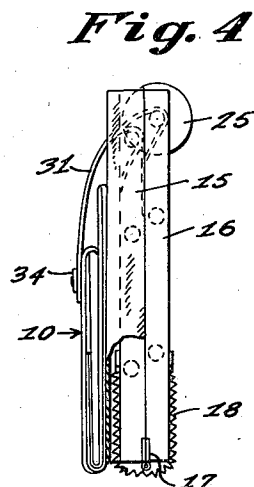


Fig. 4

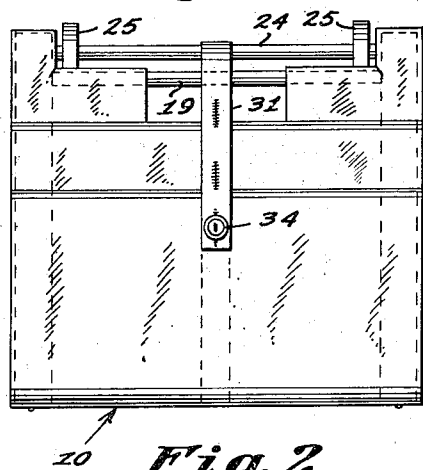


Fig. 2

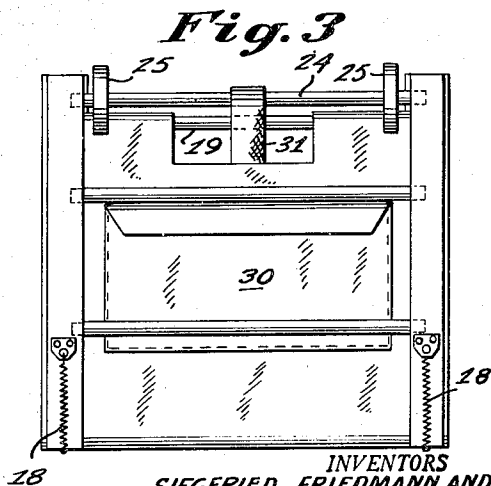


Fig. 3

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2 Sheets-Sheet 2

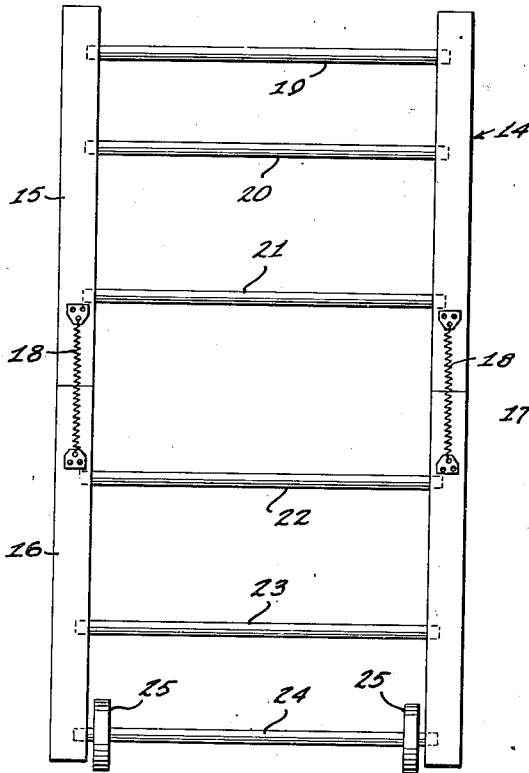


Fig. 5

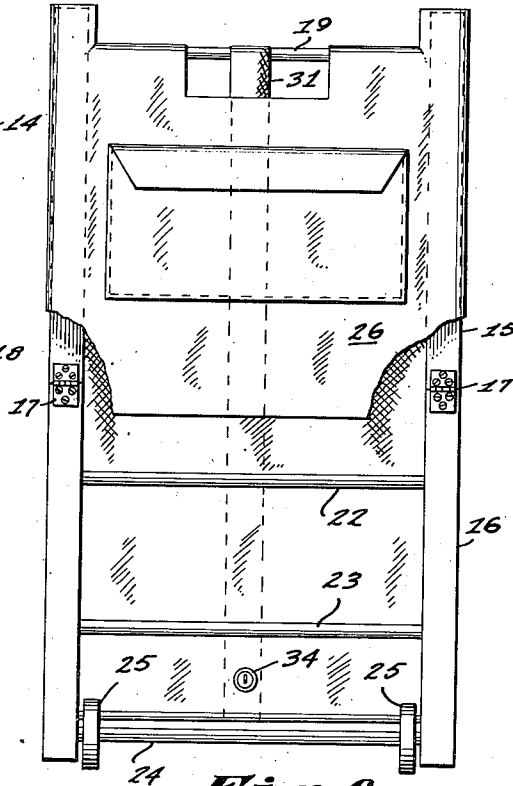


Fig. 6

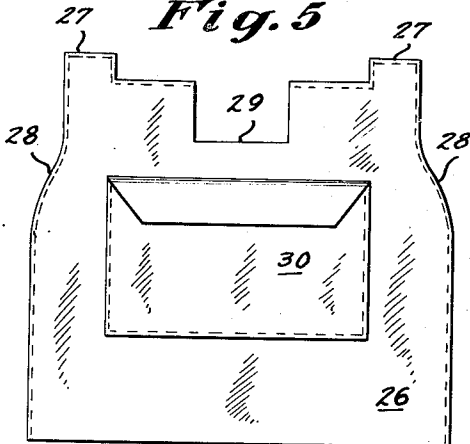


Fig. 7

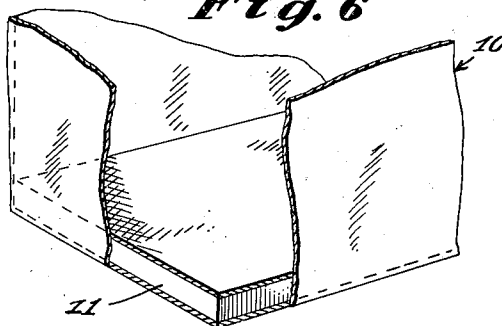


Fig. 8

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2,472,203

COLLAPSIBLE PARCEL CARRIER

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4 Claims. (Cl. 280—51)

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This invention relates to collapsible parcel carriers, and more particularly to a collapsible wheeled parcel carrier which may be folded into a compact form.

It is among the objects of the present invention to provide a wheeled parcel carrier of the type comprising a rigid frame, mounting a pair of wheels, and a collapsible bag, in which the frame may be folded back upon itself, and the bag may be folded upon the opposite face of the frame, to the end that the folded frame and bag lie flat when the structure is in the collapsed position. In this position the collapsible bag does not come between folded portions of the collapsible frame, and thus there is no danger of puncturing or tearing the bag, and furthermore the collapsed structure is more compact.

A further object of the invention resides in the provision of a device of the type described which is of simple, rugged construction, which may be easily manufactured at a relatively low cost, and in which the bag may be readily removed from the frame structure for separate use if desired or which may be folded and collapsed therewith.

The foregoing and other objects and features of the invention will be made fully apparent to those skilled in the art from a consideration of the following detailed description taken in conjunction with the accompanying drawings, in which:

Figure 1 is a perspective view of a parcel carrier constructed in accordance with the invention and showing the same in unfolded position.

Figure 2 shows a front elevational view of the parcel carrier in collapsed position.

Figure 3 is a rear elevational view of the parcel carrier in collapsed position.

Figure 4 shows the collapsed parcel carrier in side elevation.

Figure 5 shows, in front elevation, the frame of the parcel carrier with the parcel container removed.

Figure 6 is an elevational view showing the back of the parcel carrier in unfolded position, and with a portion of the back part of the bag or parcel container broken away to show underlying construction.

Figure 7 is a detail, showing, on a reduced scale, the form of the back portion of the parcel container as it appears before being sewn to the back of said container.

Figure 8 is a fragmentary perspective view showing the construction of the lower portion of the bag or parcel container.

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In the drawings, reference numeral 10 indicates generally a collapsible bag or parcel container, the upper portion of which is formed of canvas or similar heavy material, the bottom of which consists of upper and lower layers of heavy fabric and an intervening piece of wood, as indicated at 11 in Figure 8. The sides of the bag 10 are adapted to fold inwardly along the lines 12 and 13 and when so folded the bottom 11 is folded upwardly in which position the bag lies flat in the manner of a folded paper sack. The bag so folded may be again folded intermediate the length thereof so that it will lie flat against the upper portion of the frame indicated generally at 14. The lower portion of the bag is not attached to the frame 14 in any way so that this folding operation can be readily effected. The bag is of such length as to come within about two inches of the rollers at the bottom of the frame hereinafter described.

The frame 14 is formed of two sections 15 and 16, which sections are hinged on the back face thereof as indicated at 17. On the front side thereof the two sections are secured together by a pair of tension springs 18 normally biasing the frame into an uncollapsed position. The upper section 15 comprises two wooden frame elements connected together by dowels 19, 20 and 21, and the lower section 16 likewise comprises two relatively heavy wooden members connected by dowels 22, 23, and 24, on the lowermost of which, wheels 25 are mounted. When the frame is in its uncollapsed position the wooden members provide two uprights, as seen in Figures 5 and 6, having a length somewhat greater than the length of the bag 10. To the back of the upper end of the bag 10 is sewn a piece 26 of canvas or other material similar to the bag 10, and providing therewith a skirt adapted to fit over the upper section 15 of the frame and secure the bag 10 in position thereon. To this end the piece 26 is provided with shouldered portions 27 which with corresponding portions on the bag 14 accommodate the upper ends of the two wooden members forming the uprights of this section.

It will be understood that the upper end of the piece 26 and the corresponding dimensions of the back of the bag 10 is sufficiently great so that when these parts are sewn together the ends of the uprights will be accommodated therebetween. At a point somewhat below its upper end the piece 26 flares outwardly as indicated at 28 to a dimension substantially wider than the bag 10 so that when the piece 26 is sewn to the back of the bag 10 along the straight edge there-

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of ample slack will be provided permitting the skirt so formed to be slipped over the upper end of the section 15 without difficulty. A cutout portion 29 is provided in the upper end of piece 26 matching a corresponding cutout portion in the back of the bag 10, and the back and piece are not sewn along the margin of this cutout portion so that an opening is provided across which the dowel 19 extends as may be seen in Figure 1. On the back of the piece 26 a pocket 30 is sewn for the accommodation of miscellaneous items such as money, handkerchiefs, lipstick and the like.

It will thus be seen that the bag 10 is held in position on the frame 14 solely by the skirt provided by sewing the piece 26 upon the back of the bag 10.

A strap 31, of heavy canvas or similar material is sewn on the interior of the bag and extends from the upper edge of the front side thereof downwardly across the bottom and up the back thereof providing a central reinforcing rib. From the upper end of the back side of the bag 10 the free end of the strap 31 extends through the cutout portion 29 and is of sufficient length to extend outwardly and downwardly over the outer side of the front wall of the bag. This end of the strap is provided at its outer end with button holes 32 positioned to coact with a button 33 sewn on the front of the bag.

In use, the operative position of the parts, as a parcel carrier will be apparent from Figure 1. When the device is to be folded, the strap 31 is unfastened from the button 33 and the bag is folded on the front of the frame in a manner previously described. The lower section 16 is folded back on the rear face of the upper section 15, there being nothing to unfasten or unlatch in effecting this folding of the two sections of the frame, and nothing opposing the folding except the springs 18. The strap 31 is brought over the dowel 24, which provides the axle for the wheels 25, and is secured to a button 34 on the face of the folded bag. As seen in Figure 6, the button 34 is sewn on the outer side of the rear wall of the bag and adjacent the lower end thereof. When the bag is folded in a manner described the button 34 lies in the position shown in Figures 2 and 4 and, in conjunction with the strap 31, serves to secure the parts in a folded position shown in Figures 2, 3 and 4.

In the folded position it will be seen that all parts come compactly together so that the same may be carried conveniently by the dowel 24. It will be seen that no portion of the bag proper, lies between the sections 15 and 16 when the sections are folded, and only the thickness of the piece 26 which comes over the back of the upper section 15 lies between the uprights of the sections 15 and 16.

While there has been herein described a preferred embodiment of the invention, other embodiments within the scope of the appended claims will be obvious to those skilled in the art from a consideration of the form shown and the teachings hereof.

Having thus described the invention, we claim:

1. A collapsible parcel carrier comprising a normally upright vertically elongated collapsible frame having ground engaging wheels at its lower end and a transverse handle at its upper end, said frame comprising substantially similar rigid upper and lower sections normally positioned in the same plane and hinged together at their connecting ends so that said lower section can be swung

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rearwardly relative to said upper section to lie coextensively along the back of said lower section in the collapsed condition of said sections, the meeting ends of said sections in the coplanar positions thereof abutting in a manner precluding forward swinging of either section relative to the other, spring means yieldably maintaining said sections in coplanar relation, a flexible bag on the front of said frame and extending substantially the full height of said frame, said bag being mounted on said upper section and depending freely along the front of said lower section, said bag being arranged to be folded on a transverse line adjacent to the hinge axis of said sections in a forward and upward direction on said upper section as said lower section is swung rearwardly and upwardly against the tension of said spring means, whereby the lower part of the bag lies coextensively along said upper section and said lower section lies coextensively along the back of said upper section.

2. A collapsible parcel carrier comprising a normally upright vertically elongated collapsible frame having a dowel carrying ground engaging wheels at its lower end and a transverse handle at its upper end, said frame comprising substantially similar rigid upper and lower sections normally positioned in the same plane and hinged together at their connecting ends so that said lower sections can be swung rearwardly relative to said upper section to lie coextensively along the back of said lower section in the collapsed condition of said sections, the meeting ends of said sections in the coplanar positions thereof abutting in a manner precluding forward swinging of either section relative to the other, spring means yieldably maintaining said sections in coplanar relation, a flexible bag on the front of said frame and extending substantially the full height of said frame, said bag being mounted on said upper section and depending freely along the front of said lower section, said bag being arranged to be folded on a transverse line adjacent to the hinge axis of said sections in a forward and upward direction on said upper section as said lower section is swung rearwardly and upwardly against the tension of said spring means, whereby the lower part of the bag lies coextensively along said upper section and said lower section lies coextensively along the back of said upper section, and a strap secured at one end to said bag with its free end passed over said transverse handle and said dowel and releasably secured to the upper part of the bag whereby said frame and said bag are maintained in their collapsed and folded positions, respectively, against the tension of said spring means and compactly associated for carrying by means of said handle.

3. A collapsible parcel carrier comprising a normally upright vertically elongated collapsible frame having ground engaging wheels at its lower end and a transverse handle at its upper end, said frame comprising substantially similar rigid upper and lower sections normally positioned in the same plane and hinged together at their connecting ends so that said lower section can be swung rearwardly relative to said upper section to lie coextensively along the back of said lower section in the collapsed condition of said sections, the meeting ends of said sections in the coplanar positions thereof abutting in a manner precluding forward swinging of either section relative to the other, spring means yieldably maintaining said sections in coplanar relation, a flexible bag on the front of said frame and extending substan-

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tially the full height of said frame, said bag being mounted on said upper section and depending freely along the front of said lower section, said bag being arranged to be folded on a transverse line adjacent to the hinge axis of said sections in a forward and upward direction on said upper section as said lower section is swung rearwardly and upwardly against the tension of said spring means, whereby the lower part of the bag lies coextensively along said upper section and said lower section lies coextensively along the back of said upper section, said bag comprising a pouch having front and back walls, a relatively rigid bottom, flexible side walls rising from said bottom and vertically creased to fold inwardly to bring said front wall against said back wall and permit said rigid bottom to be folded upwardly against said front wall in the collapsed condition of said pouch, and means securing the upper part of said pouch to said upper frame section.

4. A collapsible parcel carrier comprising a normally upright vertically elongated collapsible frame having ground engaging wheels at its lower end and a transverse handle at its upper end, said frame comprising substantially similar rigid upper and lower sections normally positioned in the same plane and hinged together at their connecting ends so that said lower section can be swung rearwardly relative to said upper section to lie coextensively along the back of said lower section in the collapsed condition of said sections, the meeting ends of said sections in the coplanar positions thereof abutting in a manner precluding forward swinging of either section relative to the other, spring means yieldably maintaining said sections in coplanar relation, a flexible bag on the front of said frame and extending substantially the full height of said frame, said bag being mounted on said upper section and depending

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freely along the front of said lower section, said bag being arranged to be folded on a transverse line adjacent to the hinge axis of said sections in a forward and upward direction on said upper section as said lower section is swung rearwardly and upwardly against the tension of said spring means, whereby the lower part of the bag lies coextensively along said upper section and said lower section lies coextensively along the back of said upper section, said bag comprising a pouch having front and back walls, a relatively rigid bottom, flexible side walls rising from said bottom and vertically creased to fold inwardly to bring said front wall against said back wall and permit said rigid bottom to be folded upwardly against said front wall in the collapsed condition of said pouch, and means securing the upper part of said pouch to said upper frame section, said means comprising a flexible sheet lying along the back of said upper section and secured at its side edges to the side edges of the back wall of said pouch and at its upper edge to portions of the upper edge of said back wall so as to provide an inverted pocket telescoped over the upper end of said upper section, whereby said bag is removably mounted on said frame.

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