

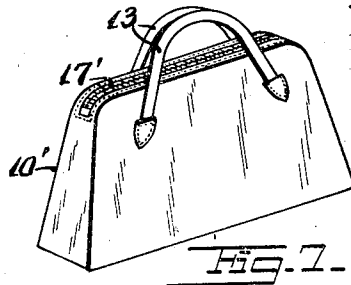
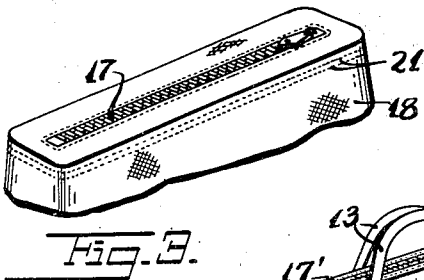
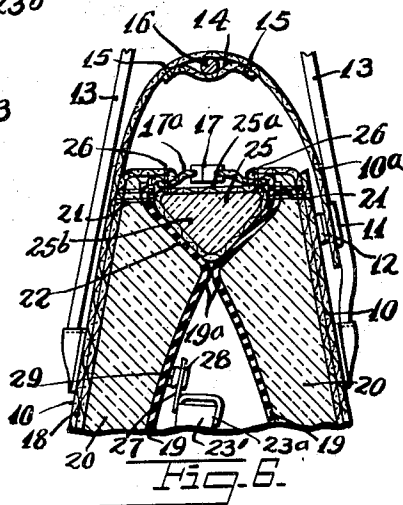
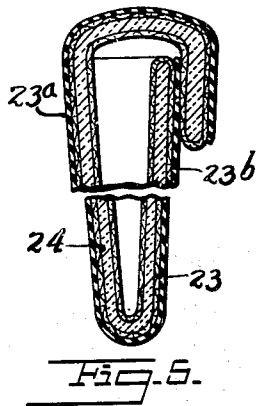
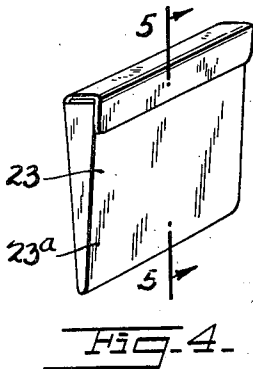
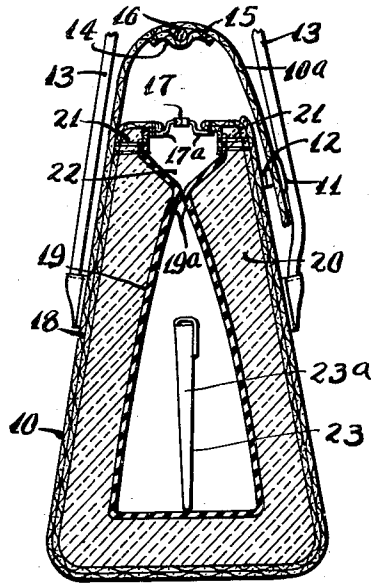
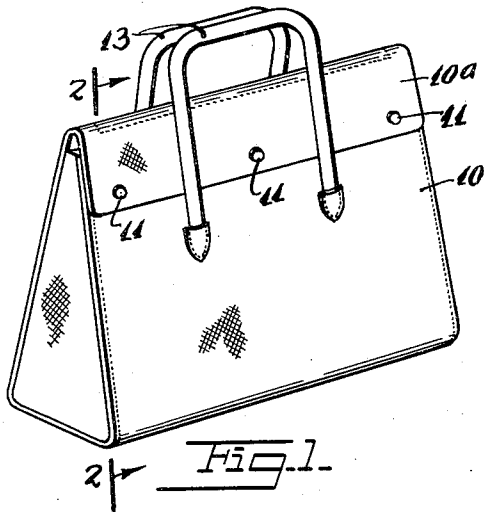
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PORTABLE REFRIGERATOR BAG

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PORTABLE REFRIGERATOR BAG

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2 Claims. (Cl. 150—52)

This invention relates to new and useful improvements in a portable refrigerator bag.

More specifically the invention proposes the construction of a portable refrigerator bag characterized by an outside container bag having handles and into which an insulated bag is adapted to be positioned in a manner to be conveniently carried about.

Still further the invention proposes to construct the insulated bag to have double walls with insulation material located therebetween and to characterize the inner of said walls by a construction of rubber or other similar waterproof material in a manner to act to seal the interior thereof.

Still further the invention proposes the construction of a refrigerant bag for location within the insulated bag and arranged in a manner to cool the interior thereof and foods positioned therein.

A further object of this invention proposes the provision of a means for closing the open top of the insulated bag and for hermetically sealing the same in a manner to prevent the loss of cold air therethrough.

A still further object of this invention proposes the construction of a means for suspending the refrigerator bag from one of the walls of the insulated bag to cause the same to maintain an upright position and prevent the contents thereof from being spilled.

A further object of this invention is the construction of a portable refrigerator bag as mentioned which is simple and durable and which may be manufactured and sold at a reasonable cost.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing forming a material part of this disclosure—

Fig. 1 is a perspective view of a portable refrigerator bag constructed in accordance with this invention.

Fig. 2 is a vertical sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is a perspective view of the top portion of the insulated bag per se.

Fig. 4 is a perspective view of the refrigerator bag, per se.

Fig. 5 is a vertical sectional view taken on the line 5—5 of Fig. 4.

Fig. 6 is an enlarged detailed view similar to a portion of Fig. 2 but illustrating a modification of the invention.

Fig. 7 is a similar view to Fig. 1, but illustrating another form of container bag used in connection with this invention.

The portable refrigerator bag, according to this invention, includes a container bag 10 for carrying the insulated bag. This container bag is preferably constructed of waterproof duck or other similar heavy material and is attractively decorated for the purpose of enhancing the appearance thereof. The container bag 10 is formed of an open top closed by means of a flap 10^a extended thereacross. The free edge of the top 10^a is provided with snap fastener elements 11 which engage complementary snap fastener elements 12 mounted upon the adjacent face of the container bag body.

Handles 13 are mounted on opposite sides of the flap 10^a and extend upwards in a manner to be manually grasped for the purpose of permitting the refrigerator bag to be conveniently carried from place to place. A strip of material 14 is attached to the inside of the flap 10^a at the top thereof by means of stitches 15 extended along opposite sides thereof forming a receiving chamber.

A rod of relatively stiff wire 16 is located within this receiving chamber and extends parallel to the width of the container bag 10 for the purpose of supporting the ends thereof to prevent the same from sagging.

An insulated bag is adapted to be positioned within the container bag 10 and has an open top closed by means of a conventional slide fastener 17. This insulated bag is characterized by an outer wall 18 of cloth material having an inner wall of rubber material 19 spaced therefrom. Insulation material 20 is located between the walls 18 and 19 and the top edges of the outer wall 18 are doubled over the top of the insulation material 20 and extend downwards slightly along the inside face of the wall of rubber 19. Stitches 21 are engaged through these overlapping wall portions through the insulation material 20 and through the outer wall 18 for the purpose of securing these portions together as a unit at the top edges of the insulated bag.

The slide fasteners 17 have their stringers 17^a secured to the adjacent edges of the inwardly extended portions of the outer wall 18 of the insulated bag. Thus the slide fasteners 17 are adapted to be engaged for the purpose of closing this open top. Adjacent the top edge of the in-

insulated bag the wall of rubber material 10 is arranged to form a pair of oppositely disposed triangular portions 19^a, the apexes of which are adapted to be brought into contact with each other when the slide fasteners 17 are brought together for sealing the interior of the insulated bag. This construction forms a hollow chamber 22 between the triangular portions 19^a and the hook fasteners 17 within which air is adapted to be entrapped for acting as an insulation chamber to prevent the radiation of cold air through the top of the container bag.

The rubber lining is so arranged that it may be turned inside out for cleaning.

A refrigerator bag 23 is located within the hollow of the insulated bag and is characterized by a rubber cover 23^a and an inner bag 23^b of a double layer material. Insulation material 24 is located between adjacent faces of the layers of the inner bag 23^b. The interior of the refrigerator bag 23 is adapted to be filled with dry ice, natural ice or, if desired, artificial ice may be used, but it is necessary to position the same within sealed containers for the purpose of preventing the water from spilling over the interior of the insulated bag and soaking the contents thereof. It is also possible to use the commercial powder known as "Quicold" which is dissolved in water and also placed within sealed containers for preventing the same from spilling over the interior of the insulated bag. The bag 23 may also be filled with a heating pad or substance to keep the articles placed in the container bag 10, in warm condition instead of cooling the same.

In Fig. 7 the container bag 10' is of a slightly different form from that shown in Fig. 1 and the slide fastener members 17' are shown curved along their extremities to follow the contour of the bag.

The operation of this invention is as follows:

The portable refrigerator bag is entirely opened and the refrigerant bag 23 is filled with the material to be used for cooling the interior of the insulated bag and is positioned therein. Materials to be carried within the insulated bag are then engaged through the open top and back around the side of the refrigerant bag 23. When the insulated bag is completely filled the slide fastener 17 is moved to its closed position and the flap 10^a of the container bag is also closed by engaging the snap fasteners 11 and 12. The handles 13 may then be used for conveniently carrying the refrigerator bag from place to place until the contents thereof are removed.

According to the modification of the invention shown in Fig. 6 the construction of the portable refrigerant bag is similar to that previously described except for the provision of a means located within the chamber 22 for assisting the apex of the triangular portions 19^a in hermetically sealing the top portion of the insulated bag. This means is characterized by a triangular longitudinal strip 25 located within the chamber 22. This longitudinal triangular strip is characterized by a cover of cloth material 25^a housing insulation material 25^b. The stitches 26 which support one stringer 17^a of the slide fastener 17 upon the top edge of the insulated bag are also engaged through the cover 25^a of the longitudinal triangular strip 25 for securing these portions together as a unit. In the open position of the slide fastener 17 a longitudinal triangular strip 25 is

adapted to be pivoted outwards to be projected beyond the top of the insulated bag permitting a free passage to the interior of the insulated bag.

The interior of the insulated bag is further provided with a means for maintaining the refrigerator bag 23' in an upright position therein. This means comprises tabs 27 mounted upon the top of the refrigerator bag 23'. These tabs 27 carry snap fasteners 28 which engage complementary snap fasteners 29 mounted upon one of the walls of the interior of the refrigerant bag.

In other respects this form of the invention is similar to that previously described and like reference numerals are used for identifying like parts in each of the several views.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new and desire to secure by United States Letters Patent is:

1. In an insulated bag having inclined side walls, opposed inwardly extending projections formed on the inside faces of said side walls adjacent the top thereof and disposed to contact each other in the closed position of said bag, upwardly and outwardly diverging wall portions continuing from said projections and forming an elongated triangular recess in the top of said bag, an elongated triangular member in said triangular recess having adjacent walls contacting the upwardly diverging wall portions forming said recess, and means extending between the top edges of said wall portions and across the free top of said triangular member for simultaneously drawing said wall portions together and for forcing said triangular member downwardly within said triangular recess causing the contacting surfaces of said triangular member and inclined wall portions to engage each other and hermetically seal the interior of said bag, said means being attached to said side walls beyond the boundaries of said triangular recess.

2. In an insulated bag having inclined side walls, opposed inwardly extending projections formed on the inside faces of said side walls adjacent the top thereof and disposed to contact each other in the closed position of said bag, upwardly and outwardly diverging wall portions continuing from said projections and forming an elongated triangular recess in the top of said bag, an elongated triangular member in said triangular recess having adjacent walls contacting the upwardly diverging wall portions forming said recess, and means extending between the top edges of said wall portions and across the top of said triangular member for simultaneously drawing said wall portions together and for forcing said triangular member downwardly within said triangular recess causing the contacting surfaces of said triangular member and inclined wall portions to engage each other and hermetically seal the interior of said bag, said means comprising slide controlled fasteners having their stringers attached to the top edges of said upwardly and outwardly diverging wall portions beyond the boundaries of said triangular recess.