

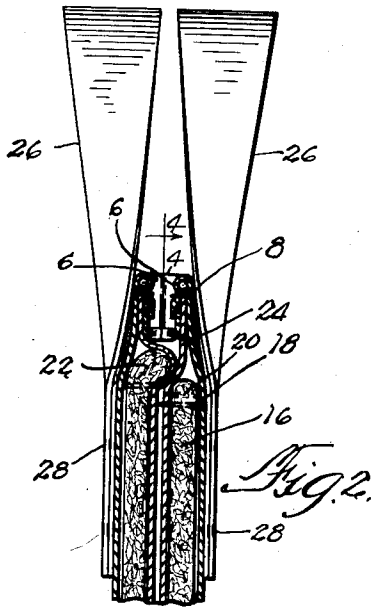
Jan. 26, 1954

W. L. KLEIN

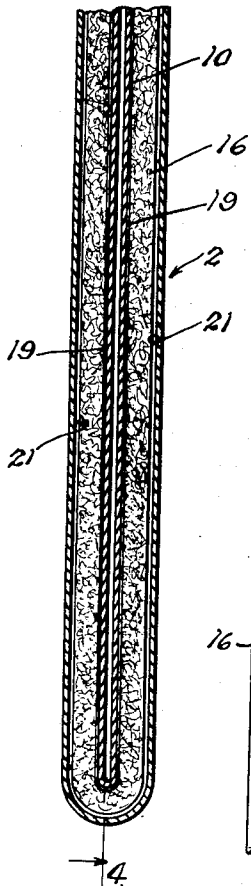
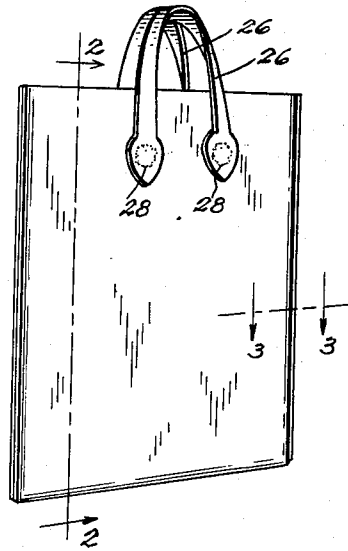
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RECEPTACLE

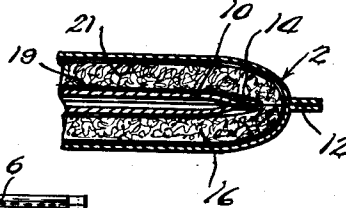
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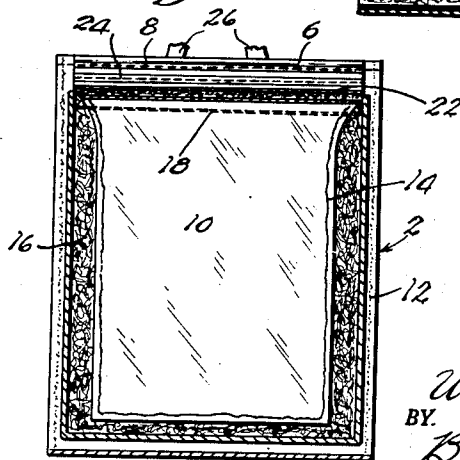
*Fig. 1*



*Fig. 3*



*Fig. 4*



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# UNITED STATES PATENT OFFICE

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## RECEPTACLE

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1 Claim. (Cl. 150—2.1)

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This invention relates to receptacles, and more particularly to a bag adapted to carry and insulate refrigerated or heated articles.

A primary object of the invention is to devise a bag of economical construction, having excellent insulating properties and capable of long life in service.

A more specific object of the arrangement is to devise a bag, such as the above described, which is entirely air tight except for an open mouth which is provided with readily releasable sealing means to accommodate insertion and removal of refrigerated or heated articles.

Another object of the invention is to devise a novel composite bag having inner and outer envelopes sealed together to afford an air-tight insulating cavity containing an insulator envelope supported by the inner envelope at the open mouth of the bag.

A further object of the invention is to provide inner and outer overlapping lips on the open end of the insulator envelope whereby when the bag is closed said lips afford maximum protection against penetration of heat into the bag.

Still another object of the invention is to devise a bag such as above described having an inner envelope with a flared open mouth sealed to flaps of the outer envelope projecting into the inner envelope which is conveniently attached as by stitching to the insulator envelope to afford a sturdy, economical and substantially air-tight construction.

The foregoing and other objects and advantages of the invention will become apparent from a consideration of the following specification and the accompanying drawings wherein:

Fig. 1 is a perspective view of a refrigerator bag embodying the invention;

Fig. 2 is an enlarged sectional view on the line 2—2 of Fig. 1;

Fig. 3 is a sectional view on the line 3—3 of Fig. 1; and

Fig. 4 is a reduced sectional view on the line 4—4 of Fig. 2.

Describing the invention in detail and referring to the drawings, it will be seen that the novel bag comprises an outer protective envelope generally designated 2 and preferably formed of a continuous substantially rectangular segment of durable material such as plastic, said segment being folded over so that the free ends thereof define an open mouth 4 of the bag and are provided with intumed flaps 6.

As best seen in Fig. 3, the lateral edges of the segment 2 are sealed as at 12 by a substantially

air-tight seam to define a substantially air-tight envelope which contains an insulator envelope 16 formed of any suitable material such as fiber glass. The insulator envelope 16 contains an inner envelope 10 which is preferably formed of plastic or other substantially waterproof, air-impermeable material. The inner envelope 10 is preferably formed of a continuous segment of said material which is sealed as at 14 by a substantially air-tight seam along its lateral edges, whereby the inner envelope is substantially air-tight and waterproof.

The inner envelope 10, as best seen in Fig. 4, is preferably flared at its mouth, as at 15, which contains said intumed flaps 6 of the outer envelope, the inner envelope 10 being sealed to the flaps 6 and to the outer envelope 2 as by a substantially air-tight seam 8.

As best seen in Figs. 2 and 4 the sides of the insulator envelope 16 are stitched at the mouth thereof, as at 18, to the sides of the inner envelope 10 at its mouth and is preferably supported only by said stitching, whereby when the bag is in the normal vertical position shown in the drawings, the insulator envelope 16 hangs freely between the inner and outer envelopes 10 and 2 and defines inner and outer dead air spaces 19 and 21 therewith. These air spaces, as best seen in Fig. 2, extend continuously around the lower ends of the envelopes 2, 10 and 16, whereby an unusually effective insulation against heat penetration is obtained.

The envelope 16 is attached as by stitching at 18 to the segment 10 which forms the inner envelope, and as best seen in Fig. 2 the insulator envelope 16 is provided with inner and outer lips 20 and 22 at the open end 4 of the bag whereby when the bag is closed the lips 20 and 22 overlap each other to afford an unusually effective seal against penetration of heat into the inner envelope 10 which is adapted to contain refrigerated articles.

The open end 4 of the bag is sealed and unsealed by means of a conventional slide fastener device 24 secured between the flaps 6 and the free ends of the segment 10 which defines the inner envelope.

The bag is preferably provided with handles 26 secured as by seams 28 to the segment 2 defining the outer envelope, and in this connection it may be noted that the seams 28 as well as those at 8, 12 and 14 are preferably formed by a conventional electronic stitcher which is effective to produce air-tight seams in plastic mate-

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rial, as will be more readily understood by those skilled in the art.

It will be understood that although the novel bag has been described for the sake of convenience as particularly adapted to carry refrigerated articles, it may be utilized, if desired, to carry and maintain heated articles in their heated condition.

Changes may be made in form and substance without departing from the spirit of the invention or sacrificing any of the advantages and the right is hereby reserved to make all changes which fairly fall within the scope of the following claim.

What is claimed as new and desired to be secured by Letters Patent of the United States is as follows:

A bag of the class described comprising an inner envelope in the form of a single segment of flexible material folded back on itself and formed with flared ends defining a flared mouth, air tight seams along the lateral edges of said envelope, an outer envelope in the form of a substantially rectangular segment of flexible material folded back on itself and seamed along its lateral edges, the ends of said second mentioned

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segment having flaps extending into said mouth, said flaps extending substantially from one side to the other of said first mentioned segment and sealed thereto, an insulator envelope disposed between said inner and outer envelopes and stitched to said inner envelope, said insulator envelope being provided with a lip on one side and an extended edge on the other side, said lip and edge extending beyond the stitched connection to the inner envelope, the said lip overlapping said extended edge when the bag is closed, and a slide fastener device sealed to the flaps of the outer envelope for opening and closing the bag.

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