

[54] SLEEP-WALKER BAG

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[51] Int. Cl.² A41D 15/04; A47G 9/00

[58] Field of Search 2/69.5, 69, 79, 84; 5/343;
206/223

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[57] ABSTRACT

An elongated sleeping bag of the type including head

and foot ends is provided and additionally includes an entrance and exit portal at least adjacent the terminal end of the head end of the bag. A pair of transversely spaced opposite side arm openings are formed in the head end portion of the bag and a pair of opposite side leg openings are formed in the bag spaced longitudinally thereof from the arm openings toward the foot end of the bag. First and second pairs of flexible tubular arm and leg receiving components, respectively, having at least one set of corresponding ends which are open and the open ends of the tubular components are secured to the bag about the arm and leg openings. In addition to this basic structure four cover panels are provided and secured to the outer surfaces of the bag about the arm and leg openings and over the latter to cover the same from the exterior of the bag. Each of the cover panels includes an access opening formed therethrough and releasable closure structure operative to releasably close the corresponding access opening. Each of the tubular components is readily foldable and storable beneath the corresponding cover panel outwardly of the interior of the bag and extendible, except for the end thereof secured to the bag about the corresponding bag opening, outwardly through the corresponding access opening upon release of the associated closure structure.

20 Claims, 12 Drawing Figures

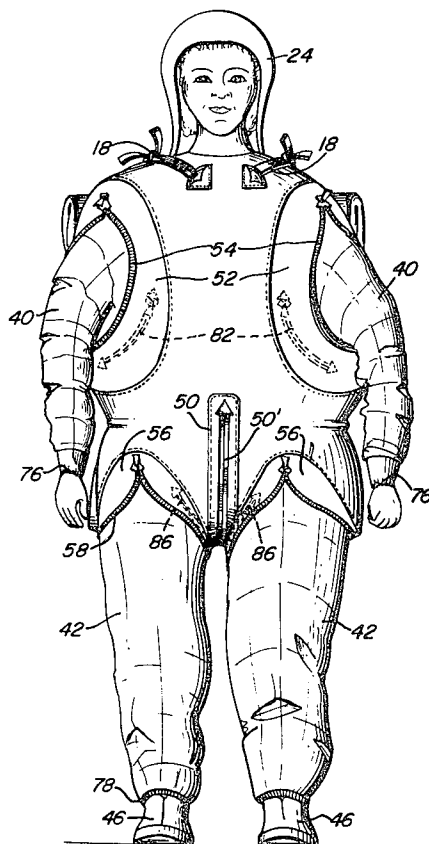


Fig. 1

Fig. 2

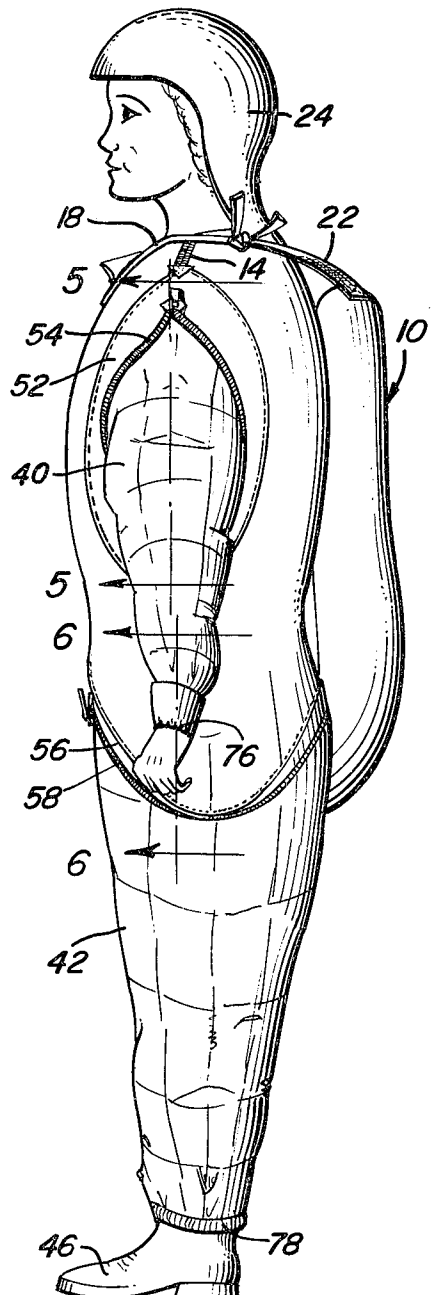
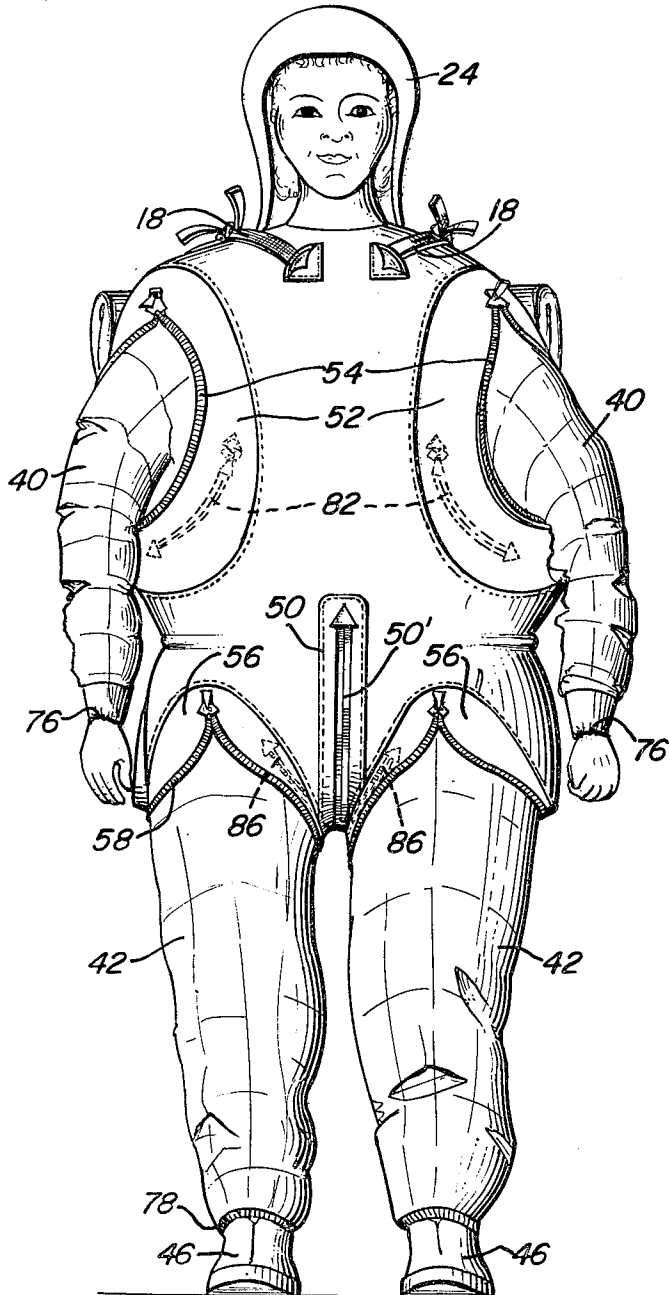


Fig. 3

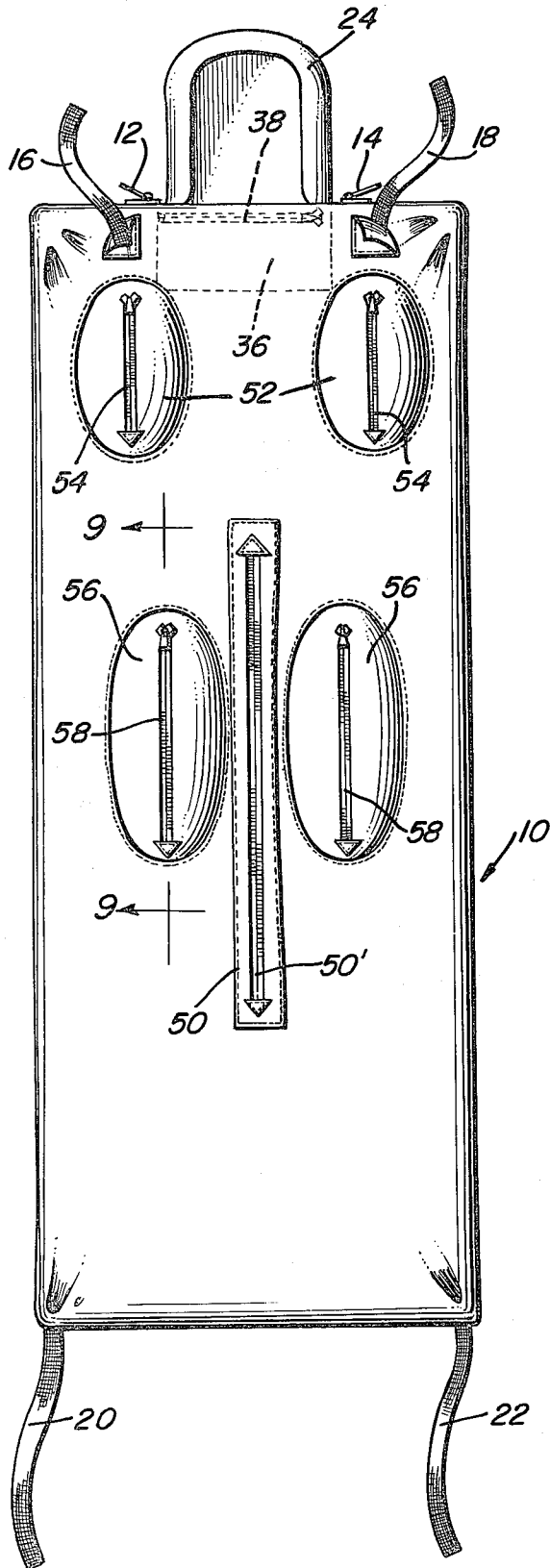


Fig. 12

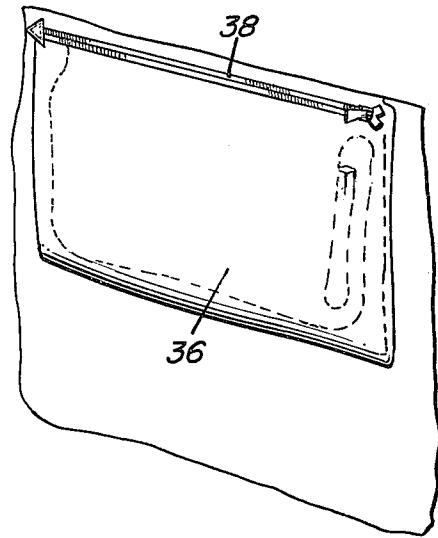


Fig. 9

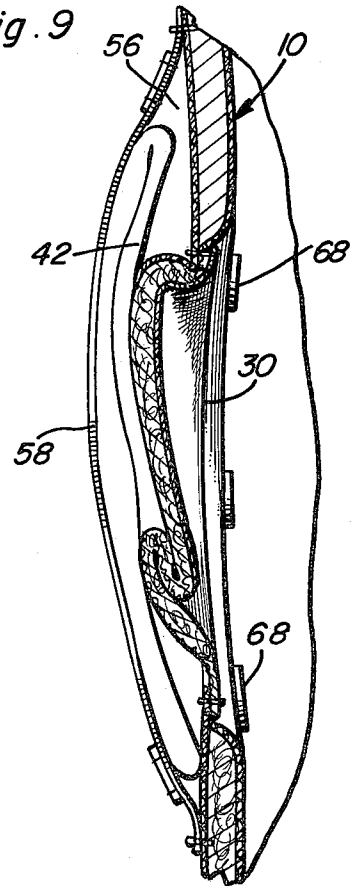


Fig. 4

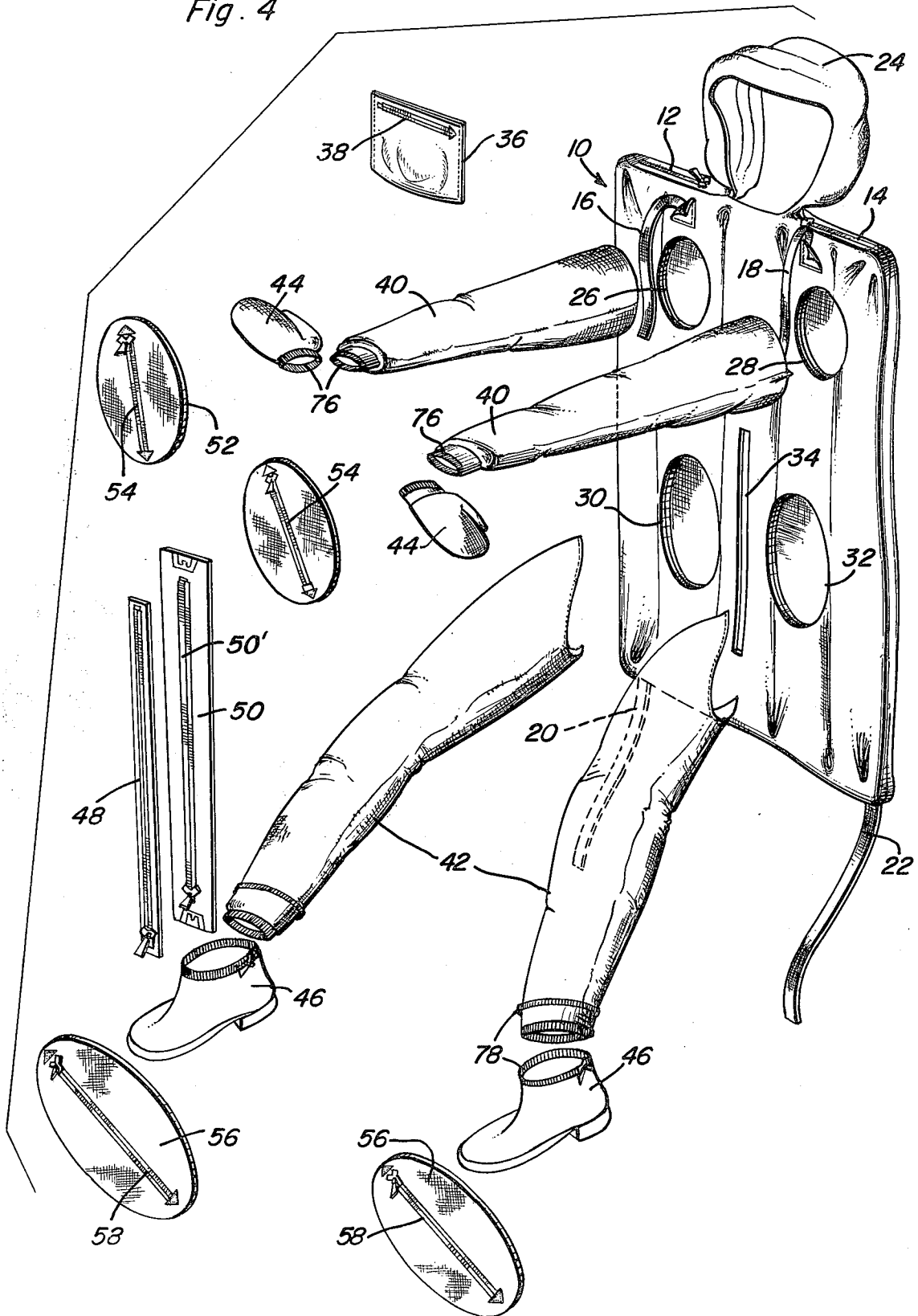


Fig. 5

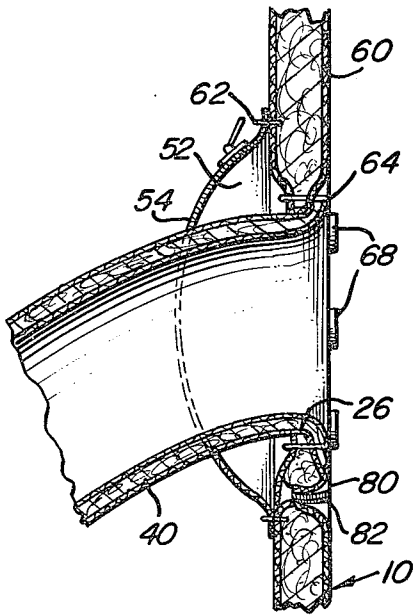


Fig. 6

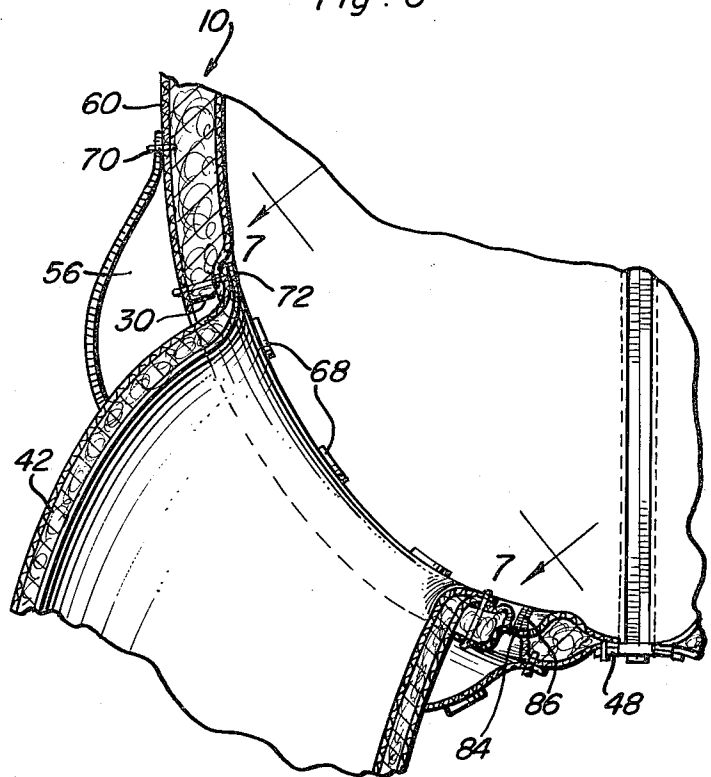


Fig. 7

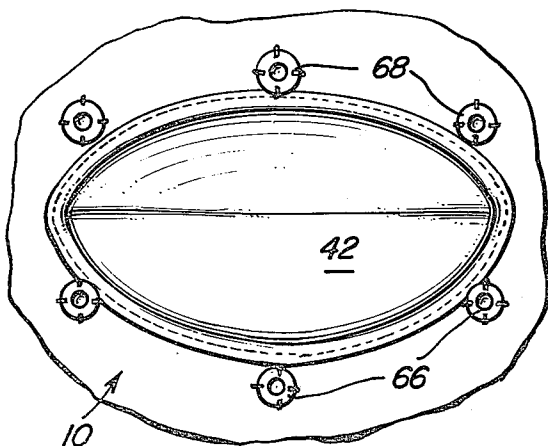


Fig. 8

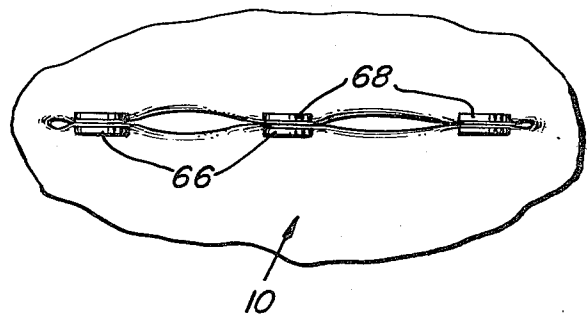


Fig. 10

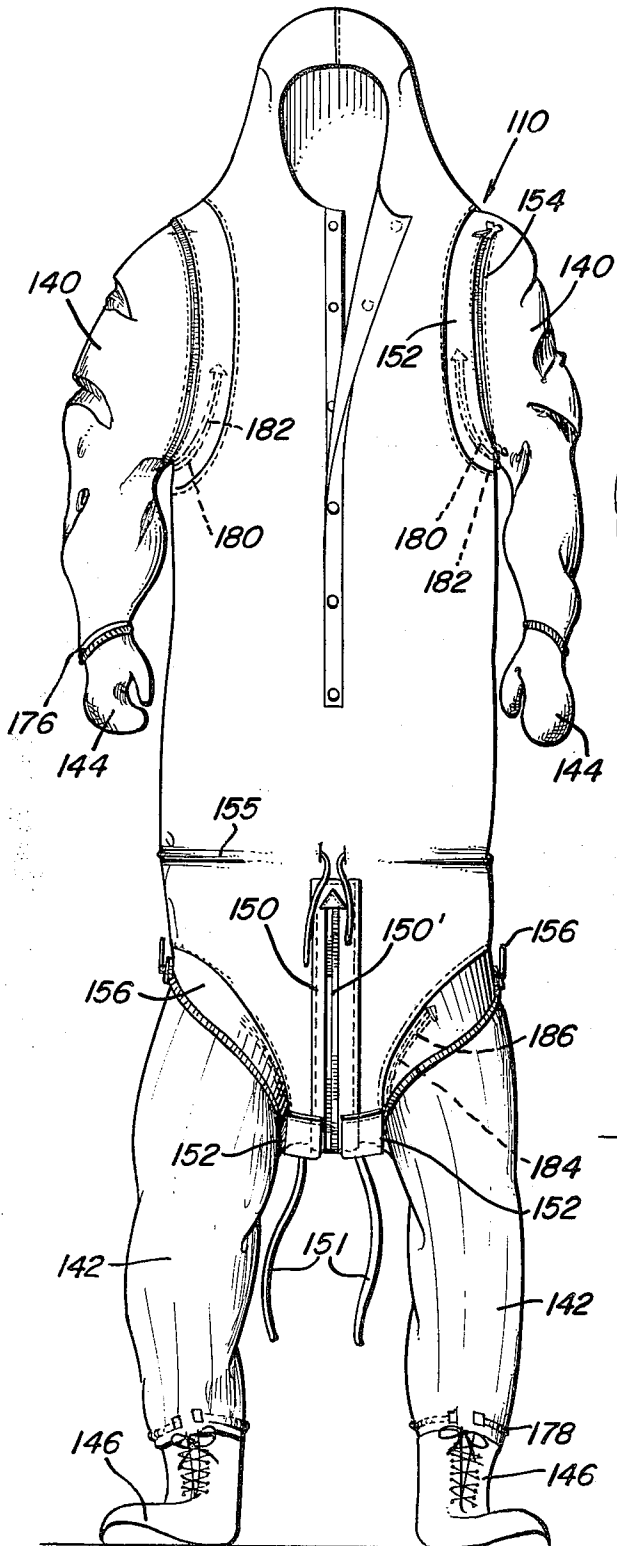
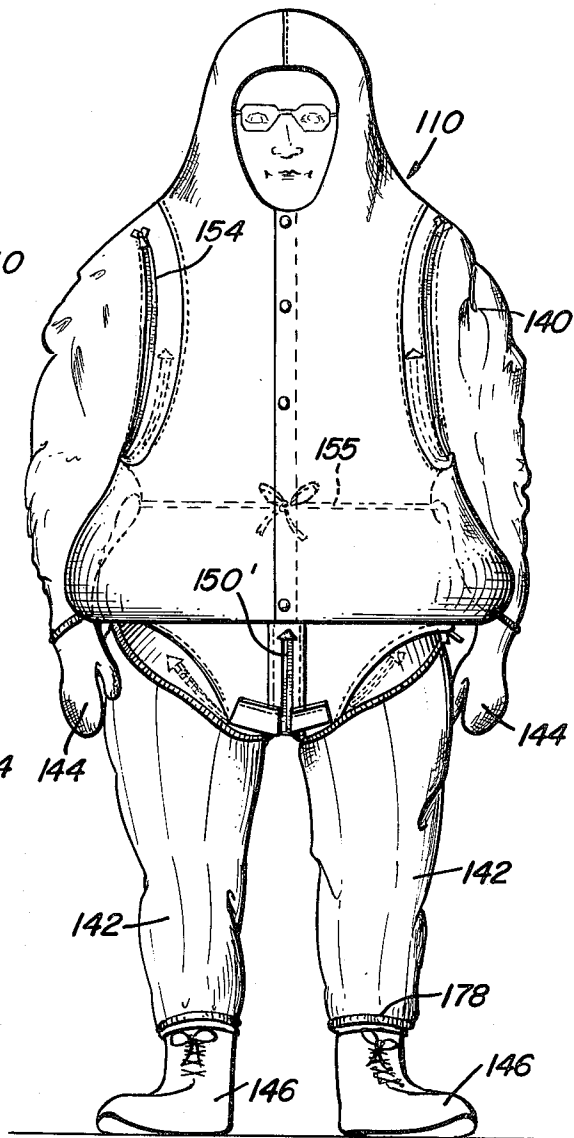


Fig. 11



SLEEP-WALKER BAG

The sleep-walker bag of the instant invention may be in the form of a modified conventional rectangular sleeping bag or in the form of a modified mummy-type sleeping bag. The former modified sleeping bag is provided with arm openings in the front side of the bag adjacent the head end thereof and leg openings in the front side of the bag substantially centrally intermediate its opposite ends. When the tubular arm and leg receiving components are secured about the arm and leg receiving openings and a person occupying the thus modified conventional type of sleeping bag extends his arms and legs through the tubular arm and leg receiving components that portion of the sleeping bag on the side of the leg receiving openings remote from the arm receiving openings is passed through the crotch area of the wearer and folded upwardly and secured over the back of the user of the sleeping bag.

On the other hand, when a mummy-type sleeping bag is modified in accordance with the present invention the arm and leg receiving openings are formed in opposite side portions of the shoulder and foot ends of the sleeping bag and the tubular arm and leg receiving components are secured about the arm and leg receiving openings. When occupied by a person whose arms and legs are extended through the tubular arm and leg receiving components of the modified mummy-type sleeping bag the lower end portion of the sleeping bag is pulled upwardly to the waist of the wearer and secured thereabout by means of a drawstring and the excess length of the mummy-type sleeping bag is allowed to fold outwardly and down over the aforementioned drawstring secured area of the sleeping bag. Thus, a mummy-type sleeping bag which is generally of sufficient length to receive the total length of the user is foreshortened in order that when the shoulders of the user are disposed in the upper end of the bag the lower end of the bag will be disposed at the crotch of the user.

Heretofore there has not been provided a means whereby a conventional rectangular sleeping bag or a mummy-type sleeping bag may be converted into an insulated walking bag. Accordingly, while there has heretofore been designed garment-type sleeping bags including tubular arm and leg components such sleeping bags may not be converted back into conventional rectangular sleeping bags or mummy-type sleeping bags.

It is accordingly the main object of this invention to provide an assemblage by which either a conventional rectangular sleeping bag or a mummy-type sleeping bag may be modified so as to be readily convertible from a sleeping bag to an insulated walking bag and thereafter back into a sleeping bag without tubular arm or leg receiving components whenever desired.

Another object of this invention is to provide a structure whereby a walking or garment-type insulated structure provided with tubular arm and leg receiving components may have the latter readily folded and stored beneath outer covers provided therefor on the basic insulated bag structure.

A still further object of this invention is to provide a convertible sleep-walker bag constructed in a manner so as to be readily manufactured initially or developed by a readily simple modification of a conventional sleeping bag.

A final object of this invention to be specifically enumerated herein is to provide a sleep-walker bag in ac-

cordance with the preceding objects and which will conform to conventional forms of manufacture, be of simple construction and easy to use so as to provide a device that will be economically feasible, long lasting and relatively trouble-free in operation.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly all suitable modifications and equivalents may be resorted to, falling within the scope of the invention.

FIG. 1 is a front elevational view of a first form of sleep-walker bag constructed in accordance with the present invention and with the bag occupied by a person having her arms and legs projected through the tubular flexible arm and leg receiving components of the sleep-walker bag;

FIG. 2 is a side elevational view of the assemblage illustrated in FIG. 1;

FIG. 3 is a top plan view of the modified sleep-walker bag illustrated in FIGS. 1 and 2, but with the tubular arm and leg receiving components in a folded and stored condition beneath cover panels secured to the outer surface of the front side of the bag;

FIG. 4 is an exploded perspective view of the structure illustrated in FIG. 3;

FIG. 5 is an enlarged fragmentary vertical sectional view taken substantially upon the plane indicated by the section line 5—5 of FIG. 2;

FIG. 6 is an enlarged fragmentary vertical sectional view taken substantially upon the plane indicated by the section line 6—6 of FIG. 2;

FIG. 7 is a fragmentary elevational view taken substantially upon the section line 7—7 of FIG. 6;

FIG. 8 is a fragmentary elevational view similar to FIG. 7 but with the leg opening illustrated in FIGS. 6 and 7 secured in a closed position by means of snap fasteners;

FIG. 9 is an enlarged fragmentary vertical sectional view taken substantially upon the plane indicated by the section line 9—9 of FIG. 3;

FIG. 10 is a front elevational view of a second form of sleep-walker bag based upon a mummy-type sleeping bag;

FIG. 11 is a front elevational view of the embodiment illustrated in FIG. 10 and with the modified form of sleep-walker bag occupied by a person and the mid-portion of the sleeping bag folded over to reduce the overall length of the sleeping bag; and

FIG. 12 is a fragmentary perspective view of the inside of the rear panel of the sleep-walker bag developed using a conventional rectangular bag and illustrating a cover pouch for a hood which is attached to the head end of the sleeping bag in order to provide support for the sleep-walker bag when the latter is utilized as a walker.

Referring now more specifically to the drawings and to FIGS. 1 through 9 in particular, the numeral 10 generally designates a conventional form of rectangular sleeping bag having certain modifications made thereto. The modifications of the bag 10 include the provision of double zipper components 12 and 14 for closing the open head end of the bag from its opposite sides, the attachment of a first pair of tie straps 16 and 18 to the front side of the head end of the bag, the attachment of tie straps 20 and 22 to the opposite side

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portions of the foot end of the bag 10, the attachment of a hood 24 to the back side of the head end of the bag 10, the formation of arm receiving openings 26 and 28 (spaced apart sufficiently to accommodate different size persons) in the front side of the bag 10 adjacent the head end thereof, the formation of leg receiving openings 30 and 32 in the front side of the bag 10 generally centrally intermediate its opposite ends, and the formation of a relief slot 34 in the front side of the bag 10 extending longitudinally thereof between the leg receiving openings 30 and 32 (the distance between openings 26, 28 and openings 30, 32 should also be sufficient to accommodate different size persons).

In addition to the above-mentioned modifications a hood receiving pouch 36 is provided for securement to the inner surface of the bag panel of the bag 10 adjacent the head end thereof and the pouch 36 is provided with a zipper-type closure 38. In addition, flexible elongated tubular arm and leg receiving components 40 and 42 are provided together with hand enclosing mittens 44 and feet enclosing flexible boots 46. Still further, a zipper assembly 48 is provided for attachment to the front panel of the bag 10 to close the slot 34 and a cover panel 50 also having a slide-type closure fastener 50' is provided for securement to the outer surface of the front side of the bag 10 over the zipper 48. Also, slotted arm component covers 52 provided with slide-type closure fasteners 54 such as zippers are provided for securement about and covering the arm receiving openings 26 and 28 and slotted cover panels 56 provided with slide-type closure fasteners 58 are provided for securement about and over the leg openings 30 and 32.

With attention now invited more specifically to FIG. 5 of the drawings it may be seen that the cover panels 52 are secured to the front side 60 of the bag 10 by means of stitching 62. Also, it may be seen from FIG. 5 that the large diameter ends of the tapering tubular components 40 are passed through the openings 26 and 28 and secured to the inner side of the front side 60 of the bag 10 by means of stitching 64. Also, opposite sides of the large diameter end portions of the arm components 40 secured through the openings 26 and 28 are provided with coacting male and female snap fastener components 66 and 68, also see FIGS. 7 and 8.

With attention now invited more specifically to FIG. 6 of the drawings it may be seen that the cover panels 56 are secured to the outer surface of the front side 60 of the bag 10 by means of stitching 70 and that the large diameter ends of the tapering leg components 42 are passed through the openings 30 and 32 and secured to the inner surface portions of the front side 60 of the bag 10 by means of stitching 72. Further, opposite side portions of the large diameter ends of the leg components 42 secured through the openings 30 and 32 are also provided with male and female snap fastener components 66 and 68 corresponding exactly to the snap fastener components 66 and 68 provided on the large diameter ends of the tubular arm receiving components 40.

The zipper 48 is secured in the slot 34 and the cover panel 50 is secured to the outer surface of the front side 60 of the bag 10 over the zipper 48.

The small diameter ends of the tubular arm receiving components 40 and the cuff portions of the mittens 44 are provided with coacting fastening means 76 in the form of zipper components whereby the mittens 44 may be securely fastened to the outer ends of the arm

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receiving components 40. Likewise, the open upper ends of the flexible boots 46 and the lower smaller diameter ends of the tubular leg receiving components 42 are provided with coacting releasable fasteners 78 in the form of zipper components whereby the boots 46 may be securely fastened to the outer ends of the leg components 42.

With attention now invited more specifically to FIG. 9 of the drawings it may be seen that the leg components 42 and boots 46 may be folded and stored between the associated cover panel 56 and the opposing outer surfaces of the front side of the bag 10. Further, the zippers 58 may be closed in order to retain the leg components 42 and boots 46 in the folded and stored positions. Of course, the arm components 40 and mittens 44 may also be folded and stored in a similar manner beneath the cover panels 52.

The bag 10 may be utilized as a conventional sleeping bag when its components are arranged in the manner illustrated in FIG. 3. However, when it is desired to utilize the bag 10 as a walker, the person occupying the bag 10 opens the covers 52 and 56 and extends the tubular arm receiving components 40 and 42. He or she may then extend his or her arms through the arm components 40 and legs through the leg components 42. Thereafter, that portion of the bag 10 disposed below the cover panels 56 is folded between the user's legs and back upwardly along the outer surface of the back panel of the bag 10. At this point, the tie straps 18 are tied to the tie straps 20 in order to support the unused upwardly folded portion of the bag 10 extending upwardly along the back of the user. Of course, when the bag 10 is used as a walker the user's head is disposed within the hood 24 and the hood 24 may thus be utilized to support a major portion of the weight of the bag 10. The user of the bag 10 may then apply the boots 46 and the mittens 44 if not already attached. The slot 34 closed by the zipper 48 is of course provided for toilet purposes and from FIGS. 1, 5 and 6 of the drawings it may be seen that the bag 10 may be further modified so as to provide ventilation slots or openings 80 closable by zippers 82 under the arm access openings 26 and ventilation slots or openings 84 closable by zippers 86 between the leg openings 30 and 32. The ventilation slots or openings 80 and 84 are within the boundaries of the respective cover panels 52 and 56.

With attention now invited more specifically to FIGS. 10 and 11 of the drawings there may be seen a mummy-type sleeping bag referred to in general by the reference numeral 110 and which has also been modified in accordance with the present invention. When modifying the mummy-type sleeping bag the arm and leg openings corresponding to the openings 26, 28 and 30, 32 are formed in opposite sides of the shoulder and foot ends of the bag 110. Tubular arm receiving components 140 (with mittens 144) corresponding to the components 40 and mittens 44 are secured through the arm receiving openings (not shown) corresponding to openings 26 and 28 and are foldable and storable beneath cover panels 152 corresponding to the cover panels 52. In addition, the bag 110 is provided with ventilation slots 180 and zipper type closures 182 therefor corresponding to the slots and zippers 80 and 82. Of course, the usual hood defining head end of the bag 110 functions in the manner of the hood 24. In addition to the tubular arm receiving components 140 the bag 110 includes tubular leg receiving components 142 and boots 146 which are also foldable and storable be-

neath zippered closure panels 156 corresponding to the closure panels 56. Still further, the foot end of the bag 110 is provided with leg ventilation slots 184 closable by zippers 186, the slots 184 and zippers 186 corresponding to the slots 84 and zippers 86. Still further, the bag 110 is provided with a slot 134 which extends down the front side of the bag under and back up the back side of the foot end of the bag 110 and the slot 134 is closed by means of a zipper 148 having a cover panel 150 secured thereover provided with a zipper 150'. Also, the lower end of the bag 110 is provided with bed roll tie straps 151 and snap closed cover panels 152 for enclosing the bed roll tie strings 151. Finally, the bag 110 includes mittens 144 corresponding to the mittens 44 and flexible boots 146 corresponding to the boots 46. Additionally, zipper constructions 176 and 178 are utilized to secure the mittens 144 and boots 146 to the outer ends of the components 140 and 142. Finally, the foot end portion of the bag 110 is provided with a drawstring assembly 155 a spaced distance upward from the terminal end of the foot end of the bag 110 approximately equal to the distance between a person's crotch and his waist. In this manner, the drawstring assembly may be pulled upwardly to the waist of the wearer and tied thereabout with the excess length of bag 110 disposed above the drawstring assembly 155 being allowed to drape downwardly over the drawstring assembly 155 in the manner illustrated in FIG. 11 of the drawings.

In lieu of the zipper assemblies 76, 78, 176 and 178 other releasable fastening means may be utilized. In addition, the zippers 82, 182 and 86, 186 may be replaced by other types of fastening means as may the zippers 50', 54, 48 and 58.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly all suitable modifications and equivalents may be resorted to, falling within the scope of the invention.

What is claimed as new is as follows:

1. In combination with an elongated sleeping bag of the type including head and foot ends and a central entrance and exit portal at least adjacent the terminal end of the head end of said bag, a pair of transversely spaced opposite side closed periphery arm openings formed in said head end portion of said bag and a pair of opposite side closed periphery leg openings formed in said bag spaced longitudinally of said bag from said arm openings toward said foot end and disposed generally centrally intermediate the opposite head and foot ends of said bag, first and second pairs of flexible tubular arm and leg receiving components, respectively, having at least one set of corresponding ends which are open, said one set of open ends of said tubular components being secured to said bag about said arm and leg openings whereby said bag is adapted to be used as a walker, and supporting means on said bag for supporting the foot end of the bag below said leg opening behind the back of the wearer of the bag when the latter is used as a walker.

2. The combination of claim 1 including four cover panels secured to the outer surfaces of said bag about said arm and leg openings a predetermined distance from the edges of said opening and over the latter to cover the same from the exterior of said bag, each of

said cover panels including an access opening formed therethrough and including releasable closure means operative to releasably close the corresponding access opening, each of said tubular components being storable, in folded condition, beneath the corresponding cover panel against the edge of the corresponding opening outwardly of the interior of said bag and extendable, except for the end thereof secured to said bag about the corresponding bag opening, outwardly through the corresponding access opening upon release of the associated closure means.

3. The combination of claim 1 wherein said tubular components are open at both ends.

4. The combination of claim 1 including hand and foot enclosures provided with entrance-exit openings, the portions of said hand and foot enclosures defining the entrance-exit openings thereof and the other set of ends of said tubular components including coacting releasable attaching means releasably attaching said portions of said hand and foot enclosures to and about said other set of ends of said tubular arm and leg components.

5. The combination of claim 1 wherein the portions of the bag defining the lower portions of the adjacent sides of said arm openings and the lower portions of the adjacent sides of said leg openings include ventilation slots extending along said openings and opening into the interior of said bag, and releasable closure means carried by the portions of said bag disposed on opposite sides of each slot releasably closing the latter.

6. The combination of claim 5 including four cover panels secured to the outer surfaces of said bag about said arm and leg openings a predetermined distance from the edges of said opening and over the latter to cover the same from the exterior of said bag, each of said cover panels including an access opening formed therethrough and including releasable closure means operative to releasably close the corresponding access opening, each of said tubular components being storable, in folded condition, beneath the corresponding cover panel against the edge of the corresponding opening outwardly of the interior of said bag and extendable, except for the end thereof secured to said bag about the corresponding bag opening, outwardly through the corresponding access opening upon release of the associated closure means.

7. The combination of claim 6 wherein said slots are formed in said bag beneath the corresponding cover panels.

8. The combination of claim 1 wherein said bag is rectangular in shape and includes front and rear panels joined together along corresponding opposite side and foot end marginal edge portions thereof, said arm and leg openings being formed in said front panel.

9. The combination of claim 1 wherein the inner side of the rear panel of said bag, adjacent the head end thereof includes a pouch, the head end of the rear panel having a flexible and foldable hood attached thereto and storable, in a folded condition, within said pouch, said hood comprising means whereby the wearer of said bag, when the latter is used as a walker, may support some of the weight of the bag from his head.

10. The combination of claim 1 wherein the head and foot ends of the bag include releasable coacting anchor means for supporting the foot end of the bag, below the leg openings in an upwardly folded position behind the back of the wearer of the bag during use of the latter as

a walker with the foot end of the bag supported from the head end thereof by said coacting anchor means.

11. The combination of claim 1 wherein said bag is rectangular in shape and includes front and rear panels joined together along corresponding opposite side and foot end marginal edge portions thereof, said arm and leg openings being formed in said front panel, said front panel of said bag including a longitudinal opening formed therein extending between said leg openings, and releasable closure means carried by said front panel on opposite sides of said longitudinal opening releasably closing the latter.

12. The combination of claim 11 wherein the head and foot ends of the bag include releasable coacting anchor means for supporting the foot end of the bag, below the leg openings in an upwardly folded position behind the back of the wearer of the bag during use of the latter as a walker with the foot end of the bag supported from the head end thereof by said coacting anchor means.

13. The combination of claim 12 including four cover panels secured to the outer surfaces of said bag about said arm and leg openings a predetermined distance from the edges of said opening and over the latter to cover the same from the exterior of said bag, each of said cover panels including an access opening formed therethrough and including releasable closure means operative to releasably close the corresponding access opening, each of said tubular components being storable, in folded condition, beneath the corresponding cover panel against the edge of the corresponding opening outwardly of the interior of said bag and extendable, except for the end thereof secured to said bag about the corresponding bag opening, outwardly through the corresponding access opening upon release of the associated closure means.

14. In combination with an elongated sleeping bag of the type including head and foot ends and a central entrance and exit portal at least adjacent the terminal end of the head of said bag, a pair of transversely spaced opposite side arm openings formed in said head end portion of said bag and a pair of opposite side leg openings formed in said bag spaced longitudinally of said bag from said arm openings toward said foot end, first and second pairs of flexible tubular arm and leg receiving components, respectively, having at least one set of corresponding ends which are open, said one set of open ends of said tubular components being secured to said bag about said arm and leg openings, whereby said bag is adapted to be used as a walker said bag comprising a full length mummy bag, said arm and leg openings being formed in the opposite side portions of the head and foot ends thereof, said bag including a bag encircling drawstring assembly spaced slightly above the leg openings and adapted to be utilized to draw the adjacent portion of said bag about the waist of the wearer when the bag is being used as a walker, a major portion of said bag disposed between said drawstring assembly and said arm openings being foldable downwardly and over the exterior of said drawstring assembly.

15. The combination of claim 14 wherein said bag includes front and rear panels joined together along corresponding opposite side and foot end marginal edge portions thereof, said bag having a longitudinal opening formed in the foot end thereof with said opening spaced between said leg openings and its opposite ends extending upwardly into said front and rear panels, and releasable closure means carried by said front and rear

panels on opposite sides of said longitudinal opening releasably closing the latter.

16. The combination of claim 15 including, four cover panels secured to the outer surfaces of said bag about said arm and leg openings a predetermined distance from the edges of said opening and over the latter to cover the same from the exterior of said bag, each of said cover panels including an access opening formed therethrough and including releasable closure means operative to releasably close the corresponding access opening, each of said tubular components being storable, in folded condition, beneath the corresponding cover panel against the edge of the corresponding opening outwardly of the interior of said bag and extendable, except for the end thereof secured to said bag about the corresponding bag opening, outwardly through the corresponding access opening upon release of the associated closure means.

17. The combination of claim 16 wherein the portions of the bag defining the lower portions of the adjacent sides of said arm openings and the lower portions of the adjacent sides of said leg openings include ventilation slots extending along said openings and opening into the interior of said bag, and releasable closure means carried by the portions of said bag disposed on opposite sides of each slot releasably closing the latter.

18. The combination of claim 17 wherein said slots are formed in said bag beneath the corresponding cover panels.

19. A kit for modifying a sleeping bag, having arm and leg openings cut therein, into a walker, said kit including first and second pairs of elongated flexible and open-ended tubular arm and leg receiving members including one set of corresponding ends adapted for securment to said bag about said openings, and first and second ovate cover panels including outer marginal portions substantially larger than the peripheral edges of said arm and leg openings adapted for securement to outer surface portions of said bag disposed about and spaced outward a substantial distance from the edges of said openings, each of said cover panels having longitudinal slits formed therein and including fastener means for releasably closing said slits, said one set of corresponding ends of said tubular arm and leg receiving members being receivable through said slits when the latter are open and said arm and leg receiving members being foldable compactly for storage beneath said cover panels adjacent the outer surface portions of said bag when said slits are closed by said fastener means.

20. In combination with an elongated sleeping bag of the type including head and foot ends and a central entrance and exit portal at least adjacent the terminal end of the head end of said bag, a pair of transversely spaced opposite side closed periphery arm openings formed in said head end portion of said bag and a pair of opposite side closed periphery leg openings formed in said bag spaced longitudinally of said bag from said arm openings toward said foot end, the marginal edges of said bag defining said arm and leg opening including means for releasably closing said arm and leg openings, said leg openings including spaced adjacent peripheral portions, the portion of said bag disposed between said spaced adjacent peripheral portions of said leg openings defining the crotch area of the bag when the occupant of the bag has his legs extended through the leg openings, said crotch area of said bag having an elongated slot formed therein extending longitudinally of

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said bag with the longitudinal central portion of said slot extending through said crotch area and the opposite ends of said slot extending lengthwise of said bag beyond those corresponding marginal edges of said leg openings spaced longitudinally of said bag farthest

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from said crotch area on opposite sides thereof, the portions of said bag defining said elongated slot including means releasably closing said slot.

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