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54 **Multi-purpose outerwear.**

57 The present invention provides a single piece of outerwear comprising a preferably rectilinear sheet of waterproof pliable material (1) equipped with flaps, zippers, press buttons, drawcords, a head opening (1a), etc. to provide complete weather protection for a person while walking, riding, sitting reclining, etc. The object of the invention may be alternately adapted to serve as a poncho, an anorak a cagoule, a hammock, a sleeping bag, a sleeping shelter, a sitting shelter, etc.

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MULTI-PURPOSE OUTERWEAR

The present invention relates to the field of outdoor activity such as camping, hiking, hunting, fishing and the like and to outerwear and accoutrements associated therewith. More particularly, the invention relates to a single piece of outer-wear which will provide full weather protection when a person is standing, sitting or reclining.

The present poncho types are not functional for uses such as a storm-proof sleeping shelter, sleeping bag, hammock or as a fitted outerwear garment for example to cover the upper body as an anorak or to cover the full body as a cagoule, both the latter type garments being commonly used by mountaineers. Currently, persons that want the above combination of useful items are required to carry them as separate units.

U.S. Patent 3 958 274, 1 193 443 and 650 074 disclose the general state of the art on the above poncho types.

The disadvantages of carrying separate equipment such as an anorak, cagoule, hammock, sleeping bag, sleeping shelter are very obvious to campers and mountaineers and there is an obvious need to reduce not only the number of items but their weight and bulk.

The present invention provides an item of outerwear which can be adapted to provide complete weather protection while walking or riding in the open, sitting or reclining. The present invention will serve as a marginal lean-to or as a hammock and can adopt various other useful configurations when combined with accessories.

The present invention provides a single piece of outer-wear which can be adapted to provide stormproof sleeping protection or fitted outerwear.

The invention also provides for two or more to be joined together for larger shelters.

One adaptation of the invention provides a cape to cover a backpack when worn in an anorak or cagoule-like mode.

The present invention also provides a single item of outerwear which is light-weight and which can quickly and

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easily be transformed from one use to another.

Another adaption of the invention provides for it to be used as a two-point suspension hammock.

When the present invention is combined with certain and various accessories such as, mosquito netting, solar panel, integral expanded suspension, snap and fastening systems and insulative and reflective linings, etc., the utility derived from such combinations will be limited only by the imagination of the wearer.

10 The novel features of construction, composition arrangement of parts, and utilization of the invention will become more readily apparent from an examination of the following specifications taken with the accompanying illustrative drawings wherein:

15 Fig. 1 is a plan view of the inner side of one embodiment of the invention.

Fig. 2 illustrates the use of the invention as a storm-proof sleeping bag.

20 Fig. 3 depicts a parka or cagoule-like configuration of the invention.

Fig. 4 is a showing of the invention used for a sitting shelter.

Fig. 5 illustrates the use of the invention and a mosquito netting panel to form a shelter.

25 Fig. 6 is a view of a feature useful for closing the ends of the invention.

Fig. 7 is a view of an embodiment of the hood bill used to form a collar.

30 Fig. 8 is a view of the invention employed as a cape in an anorak-like configuration.

Fig. 9 is a plan view of the center portion of the main sheet 1 showing another embodiment of the head opening.

Fig. 10 is a side view of the invention employed as a hammock.

35 Illustrative of the embodiment shown by Figs. 1-10, and preferred, the present invention comprises a substantially rectangular main sheet 1 of material which is pliable even at low temperatures and waterproof, such as urethane-coated nylon. A material known by the trade name of

Gore-Tex is most usable also. The sheet may also be composed of a central section of Gore-Tex with each end section being of the waterproof material. The sheet with a length of 7 feet and width of 6 feet has been found generally suitable for the average person. Size may vary with the user and type of fit desired. The main sheet 1 is provided with sewn or welded flaps 2, 3 on the longer sides E and F. Interiorly of said flaps on each side is an element of a fastening device. The preferred being a separating zipper 4 employing a double slider 4a and secured to sheet 1 by seam 10. When the zipper is closed, small flap 3 lays over the closed zipper while the larger flap 2 lays over smaller flap 3.

The invention as described relative to Fig. 1 can be utilized to form a hammock as in Fig. 10. In this instance the zippers 4 are joined together to form the sheet into a panel having the same length as the sheet shown in Fig. 1 but of only half the width. The cords A in sleeves 9 and E and D are then drawn out of the sleeve so as to compress each end C and D into a knot-like configuration. The cords are then wrapped around the knot to retain it in that configuration. Selectively the snaps 5 on each longer side may be joined together. The thus formed narrow elongated panel with its knot-like configurations on each end is then attached around each such configuration to a line which in turn is suspended from any vertical support to form the hammock.

Cooperating snaps 5 spaced along flaps 2 and 3 provide closure when the flaps are aligned over the zipper 4. Closure of flaps 2 and 3 may be with a product known by the trade name of Velcro or similar fastening devices. Loops 16 may be provided on flaps 2 and 3 so the sheet may be used as an emergency stretcher.

Each of the shorter sides C and D of main sheet 1 terminates in a sleeve or tube 9 which is formed from the material of main sheet 1 by seam 6. Each sleeve 9 contains a draw-cord or belt-like line A whose ends are inside pockets 13 created by seam 8 and fold 7. When both ends of the cord are pulled the length of sleeve 9 can be greatly compressed. Rings, tabs, or grommets may be substituted for the sleeve and

the pocket may be omitted. Snaps 17 may be provided on the shorter sides so two or more can be joined together along these sides.

Centrally located on the sheet 1 is a head opening 1a, shown in Fig. 1 as a single curvilinear form. As seen in Fig. 9 the head opening may also comprise a pair of spaced curvilinear openings 1b interconnected by a slit 1c. Attached to the head opening by a seam 11 is an additional sheet of the material formed into a hood 12. The hood 12 also contains a drawtring G and may contain one or more pairs of opposing snaps, such as those at 5. A hood covers the head and can be drawn around the face with the draw-cord G. Other devices to restrict the opening of the hood may be employed. The hood may be omitted and a drawcord arrangement provided around the head opening.

Fig. 2 shows use of the invention as a weather-proof cover for sleeping or reclining made possible by the novel application of fastening devices. The zipper 4 is closed and is covered by flaps 2, 3 which are secured by snaps or fasteners 5. Sleeves 9 are compressed by pulling cords A from their respective sleeves. Draw-cords A are wrapped tightly around the compressed sleeves and secured by a suitable tie such as the clasp J in Fig. 6 thus achieving a storm-proof closure of sides C, D(Fig. 1).

Fig. 3 shows the sheet in an embodiment with a cagoulelike appearance and serving the purposes and uses of same. Hood 12 is shown enclosing the head excepting an opening at the face. The opening is secured by a fastener 5 with or without a gussett, a snap being preferred and drawn snug, if necessary, by the cord G contained by sleeve H, to close the head opening completely as in Fig. 2, to the inside or outside of sheet 1. Fastening device 5, the preferred being snaps, create sleeves for each arm, the fasteners being positioned to allow the fabric to be held around the wrists of wearer and further join to enclose a sleeve extending toward the body from the wrists. As described thus far the invention resembles the currently well-known poncho type outerwear. Complete formation of the cagoule garment and as depicted in Fig. 3, the zipper

element is closed from the end C by one of the sliders to about the waist of the wearer. This closure would be approximately one-third the total length of the zipper element but will vary with the height of the wearer. Thus
5 the lower portion of the sheet 1 is now formed into a skirt-like configuration. This leaves the remaining portion of sheet 1 which would include side D free and unfettered in a cape-like configuration which would conveniently cover a backpack. The draw-cord A in sleeve 9
10 of side C is then pulled tight around the waist as shown in Fig. 3 and ends of the cord are secured as desired either by tying or by utilizing the clasps J as shown in Fig. 6. If greater freedom for leg movement is desired in the lower portion of the configured garment, the remaining
15 slider may then be open to the extent required.

The use of the present invention to form a weather-proof embodiment for sitting as shown in Fig. 4 is accomplished by untying the cord A as described for the forming the cagoulelike embodiment and sitting down. The tent-like
20 shelter shown in Fig. 5 is formed by attaching a netting panel K to the zippers along sides E and F of sheet 1. The unattached opposing edges of panel K are then contained within sides C and D respectively by using the draw-cords to compress the sleeves 9 on each of side C and D. Flaps
25 E and F may contain tapes or grommets 14 in Fig. 5 to which may be attached lines 15 which serve the purpose as illustrated thereto to hold side F up as a peak of a tent or lean-to shelter and to pull side E out to provide a floor-like element. In this embodiment the head opening 1a is closed
30 by pulling the drawstring G tightly with the hood 12 either inside or outside the sheet 1 and tying it.

Fig. 6 shows the details of the pocket 13 formed in each sleeve 9 and the draw-cord A and illustrated type clasp J which is produced by the ISI Manufacturing Company.
35 The clasp is not required as the ends of the cord A could be suitably knotted together. The cord A may be of an elastic or non-elastic character.

In Fig. 7 the hood 12 has been turned inside out so that the top of the hood which normally would form a

bill-like projection is turned wrong side out so as to settle the hood neatly over the shoulders to form a collar. The collar can be drawn up snugly around the neck by the draw-cord G.

5 The configuration of the invention as shown in Fig. 8 is achieved by first forming the poncho-type configuration as described in the first portion of the paragraph relating to Fig. 3. In lieu of pulling the draw-cord A inside D to the waist as described for Fig. 3, the upper
10 elements are not closed as described for Fig. 3 but are left separated. Side C is raised to the waist and draw-cord A in sleeve 9 of side C is drawn so as to carry side C around the waist toward the back and the ends of the cord are then crossed, brought to the front and secured to
15 one another. In this instance side D then becomes a full cape.

 The embodiment of the present invention as described and shown in the drawings shows a preferred use of zippers and snaps. Such closure type devices known as Velcro, a
20 registered trademark, may be utilized in their place. However, it has been found that under certain conditions, particularly when working in brushy terrain the Velcro tends to collect twigs and leaf fragments and the like which greatly impair its usefulness.

25 The sheet 1 may be trapezoidal with one shorter side of less length than the opposite shorter side. Also, one shorter side in the rectangular configuration may have a triangular extension. Sides may also be rectilinear.

 The embodiments shown and described herein are by
30 way of illustration only and in no way limiting the present invention. Changes may be made in composition and arrangement of the parts illustrated by those of skill and experience in the particular field to which the invention relates without departing from the scope of the invention
35 as set forth in the appended claims.

WHAT WE CLAIM IS:

1. A multi-purpose outerwear comprising a sheet of waterproof pliable material having a head opening centrally located therein, first fastening means along each longer side of said sheet to cooperate to secure each longer side to the other, second fastening means along each longer side of said sheet which cooperate with each other to attach each of said longer sides to itself, and means in each of said shorter sides of said sheet for compressively decreasing the length of said shorter side selectively.
2. The outerwear as described in Claim 1 including a hood element secured to said head opening, the hood element having means therein for closure thereof.
- 15 3. The outerwear as described in Claim 1 wherein said first closing means comprises a zipper with double sliders.
4. The outerwear as described in Claim 1 wherein said second closure means comprises a plurality of snaps on each of said longer sides.
- 20 5. The outerwear as described in Claim 1 wherein said compression means on each of said shorter sides comprises a sleeve formed on each of said shorter sides, a draw-cord inserted through each of said sleeves and a pocket formed on the end of each of said sleeves to contain the respective ends of said draw-cord.
- 25 6. A sleeping bag formed ^{from} the outerwear according to Claim 1 wherein said shorter end compression means on each end are employed to draw each of said shorter ends together in a secured manner, said first fastening means are at least partially joined together to form a bag and said second fastening means on each of said longer sides are engaged with each other to cover said first fastening means.
- 30 7. An outer garment formed from the outerwear as described in Claim 1 wherein the outerwear is placed on the wearer with one of said shorter ends in front and one of said shorter ends in back of said wearer, said second closing means are at least partially engaged to form sleeves,

the compression means on the shorter end over the back of the wearer being employed to decrease the length of said shorter end and the compression means are secured about the waist of the wearer and the first fastening means are selectively fastened together from the lower edge of the shorter end covering the front of the wearer to form a long skirt-like portion, thereby forming a cagoule-like garment.

8. An outer garment formed according to Claim 7 wherein that portion of the outerwear over the back of the wearer is left free and that portion of the outerwear over the front of the wearer is pulled up so that the shorter end thereof is brought around the waist of the wearer to form a short skirt-like element, the compression means in said shorter end being utilized to decrease the length of said shorter end, said compression means being secured around the waist of the wearer, thus forming an anorak-like garment.

9. A hammock formed from the outerwear as described in Claim 1 wherein said first fastening means on each longer side are joined together to form a narrow elongated panel, the compression means in each of said shorter ends is actuated so as to draw each of said shorter ends into a knot-like configuration, said compression means being secured around each knot-like configuration, said knot-like configuration receiving means to suspend said hammock from a vertical support.

10. A multi-purpose outerwear comprising a sheet of waterproof pliable material having a head opening therein, at least one closing means positioned along the edge portion of each of the longer sides of said sheet which co-operates with each other to interconnect said longer sides to a predetermined length and means on each of said shorter sides of said sheet for compressively decreasing the length of said shorter side selectively.

11. The outerwear as set forth in Claim 10 wherein means are provided for closing said head opening.

12. The outerwear as set forth in Claim 10 wherein said at least one closing means comprises a zipper with

double sliders.

13. The outerwear as set forth in Claim 10 wherein said compressively decreasing means comprises a cord-like element slidably positioned in retaining means positioned
5 along said shorter side, said retaining means being selected from the group consisting of sleeves, rings, tabs and grommets.

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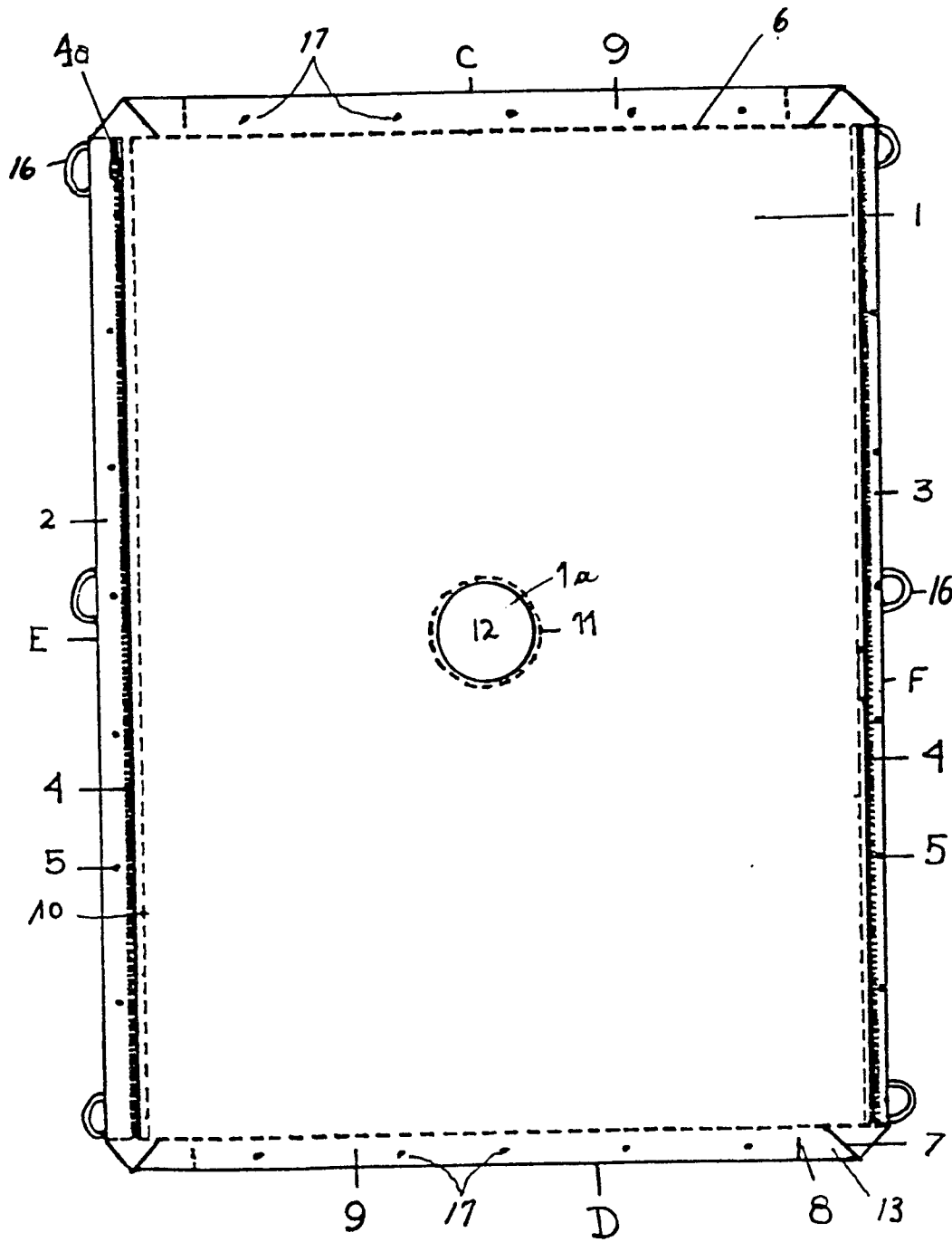


FIG. 1

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FIG. 3



FIG. 4

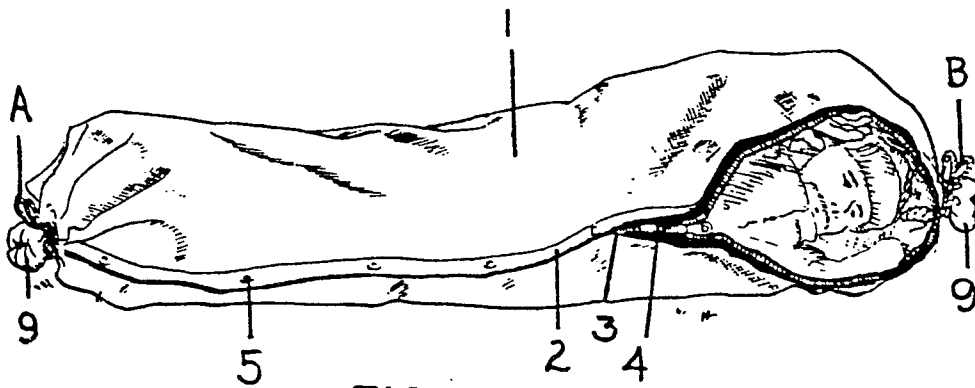


FIG. 2

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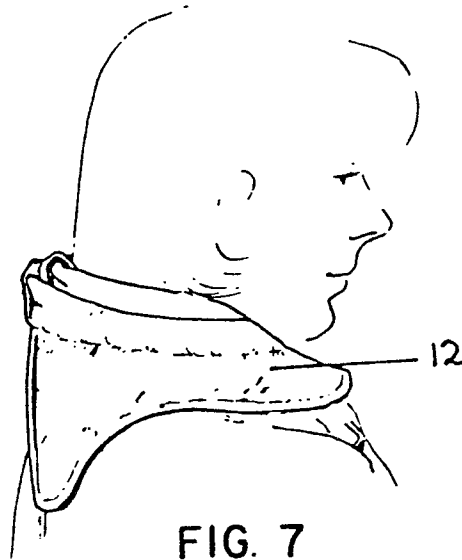


FIG. 7

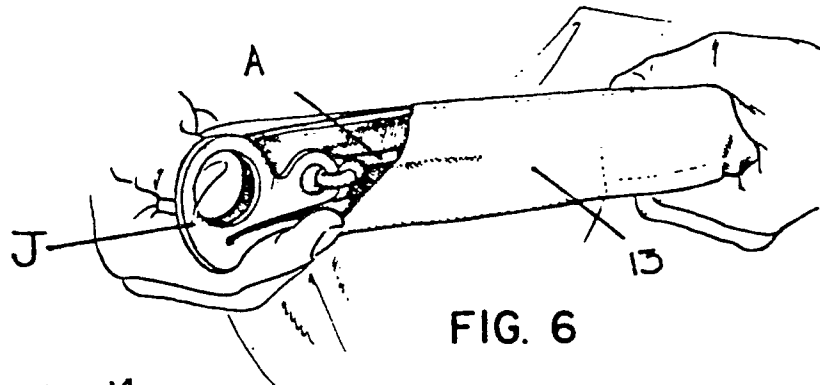


FIG. 6

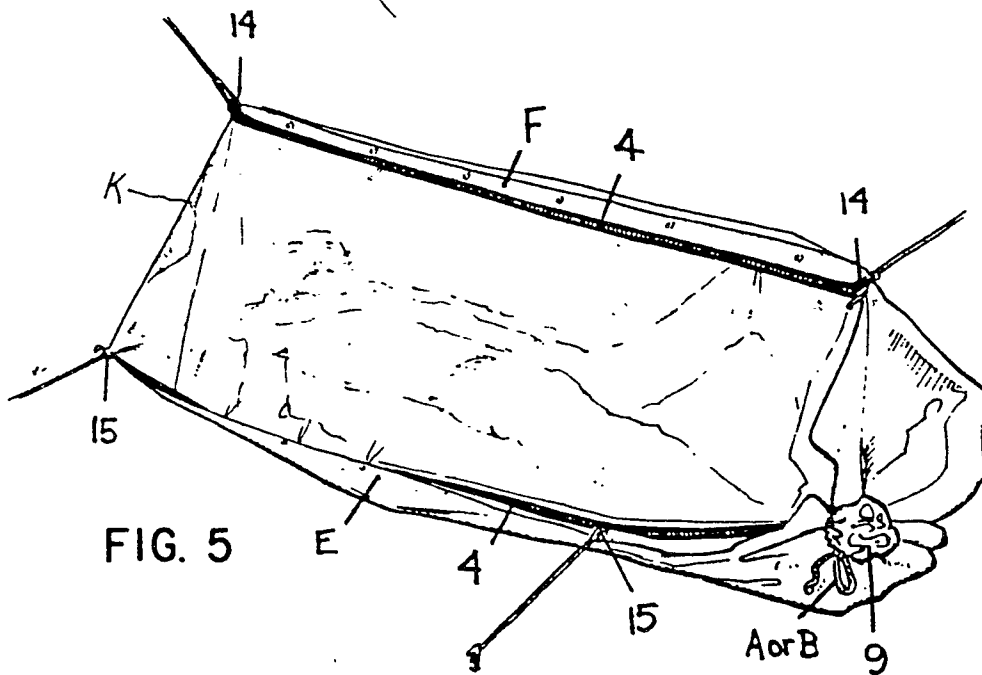


FIG. 5

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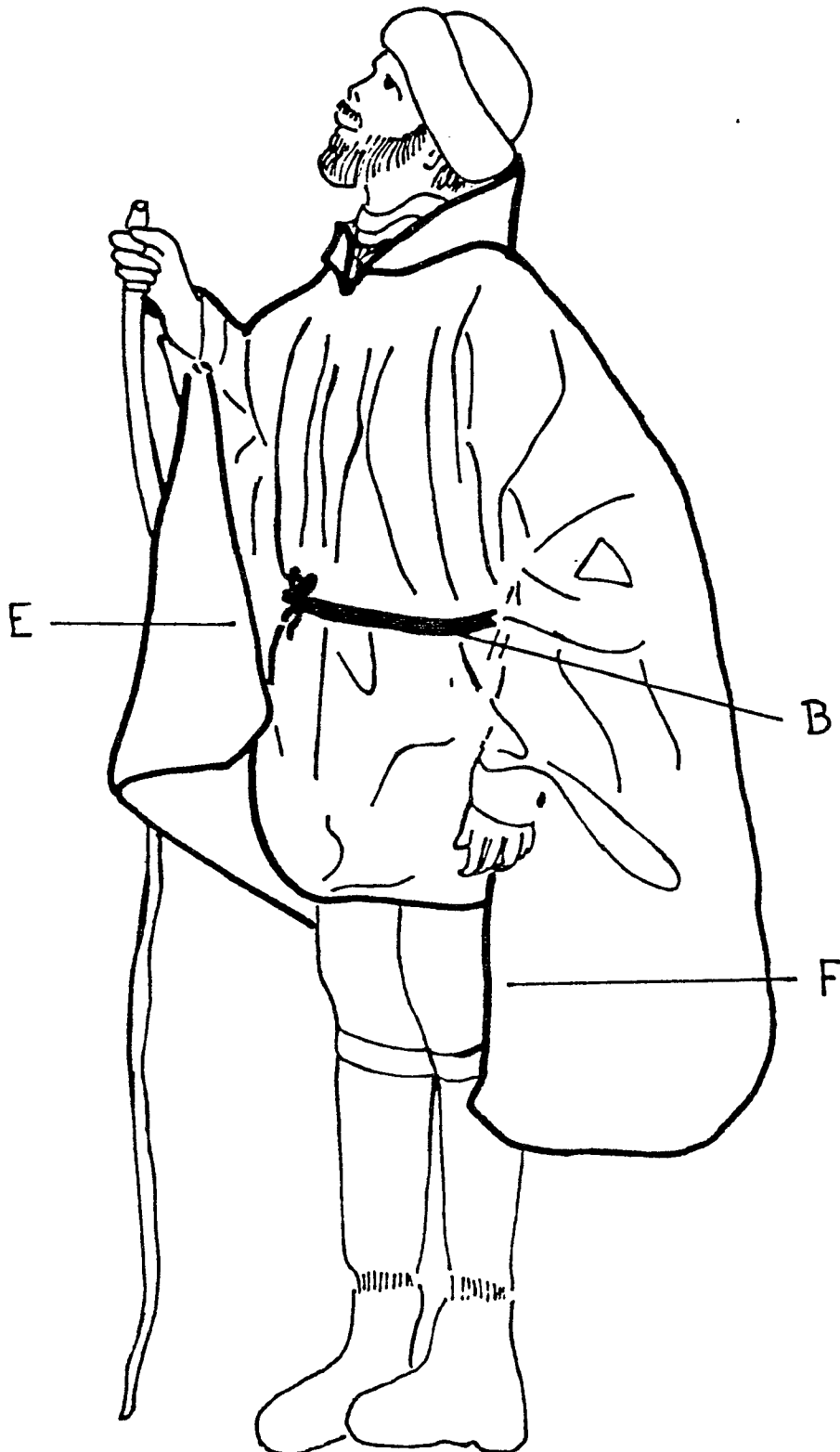
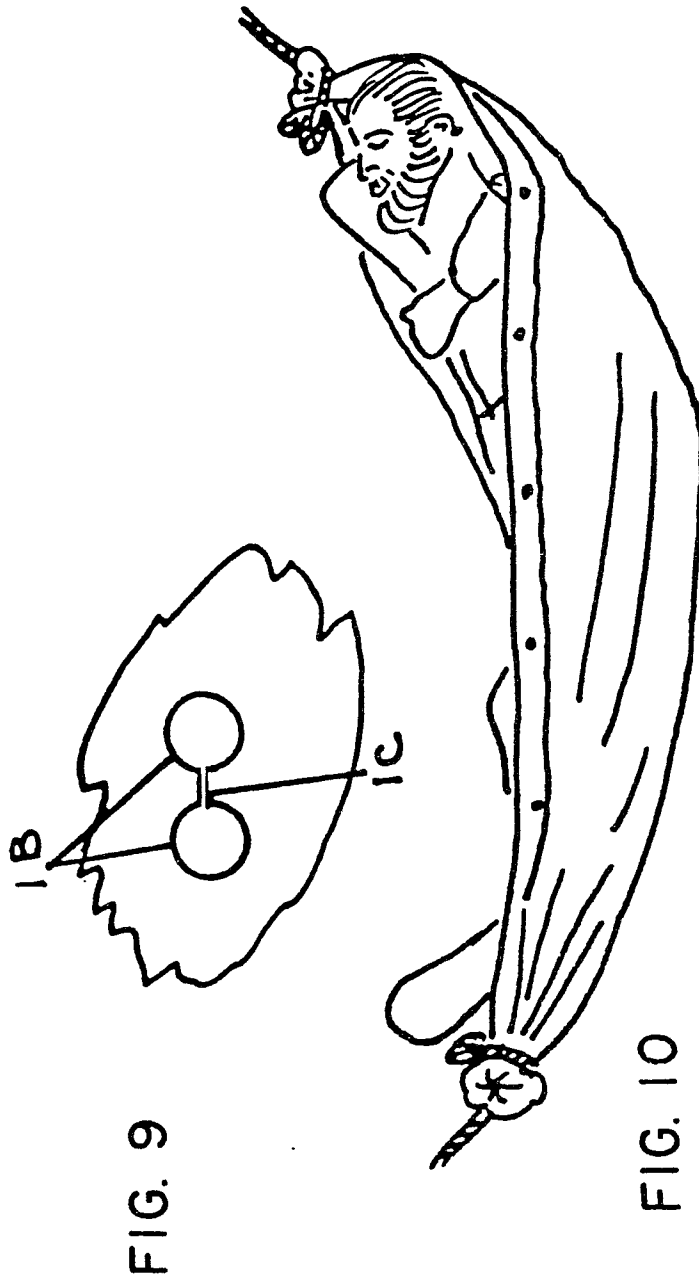


FIG. 8





European Patent
Office

EUROPEAN SEARCH REPORT

0026151

Application number

EP 80 63 0015

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
	<u>GB - A - 1 113 026 (F. MOTTE)</u> * Page 1, lines 8-69; 77-85; claims 1-3,6; figure *	1,3,5, 6,10, 12	A 41 D 15/04 A 45 F 4/14
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	<u>US - A - 3 381 306 (G.C. INNES)</u> * Column 1, lines 12-24; column 2, lines 3-41; 55-72; column 3, lines 1-4; claim 1; figures 1-6 *	1,3,10- 12	
	--		TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
	<u>FR - A - 2 309 182 (ETS H. LAPLAUD & CIE.)</u> * Entire document *	1,4,10, 11	A 41 D A 45 F
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	<u>FR - A - 343 676 (A. BOTKIN)</u> * Entire document *	1,2,10, 11	
	--		
	<u>FR - A - 1 049 740 (SALZMANN & CO.)</u> * Page 1, column 2, last para- graph; page 2, column 1, lines 1-6; claims; figures *	1,2,10, 11	
	--		CATEGORY OF CITED DOCUMENTS
	<u>FR - A - 476 747 (M. LUCAS)</u> * Entire document *	1,4,6	X: particularly relevant A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: conflicting application D: document cited in the application L: citation for other reasons
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P	<u>US - A - 4 180 867 (M.L. RIDGEWAY)</u> * Column 2, lines 34-68; column 3; column 4; column 5, lines 1- 53; claims; figures *	1,2,10, 11	&: member of the same patent family, corresponding document
----- The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner