A combination sleeping bag and hammock has the body portion of the hammock encompassed by the sleeping bag with suspension lines attached to and projecting from the ends of the body portion for the suspended support thereof. A rectangular-type sleeping bag has the body portion of the hammock generally conforming in shape to the inner bottom section of the bag and is secured thereto and a mummy-type sleeping bag has a generally pod-shaped body portion attached at each end to a suspension line within the bag with the attached lines extending through opposite ends of the bag.

10 Claims, 12 Drawing Figures
This invention relates to camping type sleeping equipment and more particularly to novel suspendible sleeping cocoons which are particularly suitable for outdoor camping and the like.

Sleeping bags are the most common type of portable bed presently in use for camping and the like. The usual practice with a sleeping bag is to place the bag on an air mattress or on the ground. In many situations it is not as desirable or as comfortable to sleep in this manner on the ground such as during the winter when there is snow on the ground. Further, for some applications such as back packing the additional weight and space taken up by an air mattress is prohibitive.

Accordingly, it is an object of this invention to provide a simple, durable and lightweight portable sleeping device which is suspendible from spaced points of support such as between trees, upright posts or the like.

Another object of this invention is to provide a novel and improved sleeping cocoon which facilitates the suspension of conventional insulated sleeping bags from spaced points of support during occupancy while utilizing the insulation properties of the bag most efficiently.

Yet another object of this invention is to provide a suspendible sleeping cocoon which is particularly lightweight and especially suitable for back packing and is principally characterized by having an insulated sleeping bag encompassing the body portion of the hammock on which the occupant rests in a suspended condition.

In accordance with the present invention, a sleeping bag and hammock are brought together with the body portion of the hammock forming an interlining for the sleeping bag so that the occupant rests directly on this body portion and the bag fully encompasses the occupant without compressing the insulation in the bag for a maximum insulation effect. A rectangular-type sleeping bag has the body portion of the hammock sewn to the bottom section of the bag or made an integral part of the bag with suspension lines being attached at spaced intervals to the ends of the body portion. In a mummy-type sleeping bag the body portion is of a generally pod-like shape and has at least one suspension line secured to each end which in turn extends through openings in opposite ends of the bag without necessarily requiring a direct attachment of the body portion to the sleeping bag.

Other objects, advantages and capabilities of the present invention will become more apparent as the following description proceeds taken in conjunction with the accompanying drawings in which:

FIG. 1 is a perspective view of one form of sleeping cocoon shown suspended from spaced points of sport with a portion of the top sections of the bag folded open; FIG. 2 is a plan view of the sleeping cocoon shown in FIG. 1; FIG. 3 is a plan view of the sleeping cocoon of FIG. 1 with the top section of the bag spread open to a flat condition in the same plane as the bottom section; FIG. 4 is a side elevation view of the sleeping cocoon shown in FIG. 1; FIG. 5 is an enlarged fragmentary sectional view taken along lines 5—5 of the cocoon of FIG. 2; FIG. 6 is an enlarged fragmentary sectional view taken along lines 6—6 of the cocoon shown in FIG. 2; FIG. 7 is a sectional view taken along lines 7—7 of FIG. 2 with the upper and lower sections of the bag spread as if the cocoon were being occupied; FIG. 8 is a perspective view of another form of sleeping cocoon shown suspended from spaced points of support; FIG. 9 is a side elevation view of the hammock portion of the cocoon of FIG. 8; FIG. 10 is a plan view of the sleeping cocoon of FIG. 8 with portions of the bag broken away to show the interior parts; FIG. 11 is a side fragmentary elevation view of the sleeping cocoon of FIG. 8 with end portions of the side of the bag broken away to show interior parts; and FIG. 12 is a sectional view taken across the end portion of the sleeping cocoon shown in FIG. 8.

Referring now to the drawings, the cocoon shown in FIGS. 1-7 broadly stated comprises an insulated sleeping bag 8 and a hammock 9 shown in FIG. 1 as being suspended from spaced upright supports 1 and 12. The sleeping bag 8 shown generally rectangular shaped bag having similar rectangular upper and lower sections 13 and 14 being foldable or hinged along the side 15 further provided with a zipper-type fastener 16 along the bottom 17 and the other side 18. This leaves an access opening 19 at the top for admitting an occupant into the bag. Upon releasing the zipper 16 the upper section 13 will then fold open to the same plane as the lower section or in a flat condition as shown in FIG. 3. The sleeping bag 8 may be of conventional construction and as shown is composed of spaced inner and outer layers 21 and 22 of a fabric material such as Dacron or nylon which is stuffed with a suitable filler or insulation material 23 such as Dacron, down, feathers and the like.

The hammock 9 comprises an occupant supporting body portion 26 which made of one or more layers or a sheer material. This material is a strong and durable material and may be nylon, cotton, or the like. A plurality of bottom suspension lines 27 are suitably attached at spaced intervals along the foot end of the body portion 26 and converge at the other ends to a common support point 28 which may be described as a ring or the like. A spreader member 31 in the form of a circular rod is disposed across and preferably sewn into the head end of the body portion to maintain this end in a generally flat condition during suspension. A plurality of top suspension lines 33 attach or are tied at one end at spaced intervals to the rod 31 and are arranged in two groups 33a and 33b and each group converges to common support points defined by rings 34 and 35 for tying at the ends of the suspension lines to the support post.

In the cocoon construction shown in FIGS. 1-7, the main body portion 26 is secured to or lines the inner or top surface of lower section 14 of the bag to in effect form an interlining in the bag on which the occupant rests, and the ends of the body portion project slightly beyond both the ends of the bag 8. The body portion of the hammock is preferably secured to the bag by stitching. This stitching may be arranged in a variety of patterns and as shown may be spaced intervals across the top and bottom ends of the bag and along both sides as represented at 36. In this way the occupant is supported directly on the hammock and the insulation in the lower section 14 is not compressed during occupancy as it would be if the bag were disposed between the hammock and the occupant and accordingly this has been found to provide a better insulation effect for retaining body heat within the bag. While a separate layer of material is sewn to the bag to form the body portion to adapt existing sleeping bags, it is understood that the body portion may be an integral part of the bag or as inner layer 21 or interlining for the lower section of the bag with the suspension lines directly attached to the ends thereof.

Referring now to the sleeping cocoon shown in FIGS. 8-12, this form broadly stated comprises a mummy-type insulated sleeping bag 38 and a generally pod-shaped hammock 39 shown in FIG. 8 as being secured between upright supports 41 and 42. The mummy-type sleeping bag 38 is more of a generally tubular shape with a length of zipper 43 along the upper section of the bag adjacent the forward end to permit access of the occupant thereinto. The bag is composed of inner and outer cover layers 44 and 45 of a thin durable material such as nylon fabric material with a filler 46 between the layers forming the insulation for the bag being of a material such as Dacron, down or feathers. Stitching 47 is provided at spaced intervals laterally of the bag. The forward end portion 48 of the bag is enlarged and is in the nature of a hood with a head opening 50 and the bag tapers slightly inwardly toward the foot end and terminates in a somewhat upturned foot end portion 49.

The hammock 39 comprises a main body portion 50 which may be made from a rectangular shaped piece of sheet material folded in the middle along its length to provide opposed side sections 51 and 52 and define a top opening 53. The ends of
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3. A suspendible sleeping cocoon comprising a generally rectangular-shaped insulated sleeping bag including spaced inner and outer layers and having a loosely packed insulation material in the space between said layers, said bag having an access opening for admitting an occupant into the bag and including releasable fastening means along the bottom and side of the bag, and a hammock encompassed by the bag including an occupant supporting body portion of a piece of material interlining an inner lower side of the inner layer of the bag and being secured thereto and suspension line means attached to each end of the body portion and projecting beyond the ends thereof whereby the bag and hammock may be suspended between a pair of spaced points of support.

4. A suspendible sleeping cocoon as set forth in claim 3 wherein said material is stitched to the bag.

5. A suspendible sleeping cocoon as set forth in claim 1 wherein said body portion is in the form of a piece of nylon material.

6. A suspendible sleeping cocoon as set forth in claim 1 wherein said material is bunched together at the ends, and suspension lines being secured to the bunched ends to form the pod-shaped support body having an access opening along the top.

7. A suspendible sleeping cocoon as set forth in claim 3 wherein said suspension line means includes at least one line at each end extending through an opening at opposite ends of the bag.

8. A suspendible sleeping cocoon as set forth in claim 5 including grommet members in said openings in the ends of the bag to reinforce said openings.

9. A suspendible sleeping cocoon comprising a generally rectangular-shaped insulated sleeping bag including spaced inner and outer layers and having a loosely packed insulation material in the space between said layers, said bag having an access opening for admitting an occupant into the bag and including releasable fastening means along the bottom and one side of the bag, and a hammock encompassed by the bag including an occupant supporting body portion of a piece of material interlining an inner lower side of the inner layer of the bag and being secured thereto and suspension line means attached to the ends of said body portion and projecting beyond the ends thereof whereby the bag and hammock may be suspended between a pair of spaced points of support.

10. A suspendible sleeping cocoon as set forth in claim 14 wherein said body portion is stitched to the bag.

* * * * *
Patent No. 3,675,256  Dated 4 October 1972

Inventor(s)  Robert A. Tallarico and Don Goff

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Column 1, line 9, "round" should read ---ground---.
Column 1, line 49, "sport" should read ---support---.
Column 2, line 18, after "which" insert ---is---; after "layers", delete "or" and insert ---of---.
Column 3, line 5, "here" should read ---where---.
Column 4, line 49, "claim 14" should read ---claim 3---.

Signed and sealed this 22nd day of May 1973.

(SEAL)
Attest:

EDWARD M. FLETCHER, JR.  ROBERT GOTTSCHALK
Attesting Officer  Commissioner of Patents