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⑤④ **Convertible clothing.**

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**FR-A-2 397 165**  
**US-A-2 233 567**  
**US-A-4 472 835**

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## Description

The invention relates to a layered clothing comprising a jumper-shaped main clothing having a pair of sleeves and a sub-clothing both attached to the main clothing.

US—A—2,233,567 discloses a reversible coat and a jacket. However, the jacket is adapted to be detachably mounted only to the inside face of the coat. The inside face of the coat can be the fabric side or, if the coat is reversed, the water-proof side.

For detaching said jacket to the inside of the coat, said jacket comprises loops which are respectively secured to a row of buttons of the coat, and, on the other side, button-holes which are to cooperate with the row of buttons of the coat. Furtheron, the neck portion of the jacket is provided with a slide fastener element, which can be removably attached to the stringers of the coat.

Hence, attaching and detaching of the jacket to the coat is rather troublesome, laborious and time-consuming. Furthermore, the jacket is provided only for attachment to the respective inner side of the coat and cannot be worn independently due to the lack of having own fastening means. The number of different combinations of this preknown coat assembly is thus limited.

It is therefore the object of the present invention to provide a layered clothing, wherein the main clothing and the sub-clothing can be easily combined each in a reversible manner in respective combinations thereof.

According to the invention, this object is obtained by the features disclosed in claim 1.

Preferred further embodiments of the invention are subject of subclaims 2 to 6.

Contrary to the prior art disclosed in US—A—2,233,567, the subject matter of claim 1 allows advantageously to attach and detach simply and quickly the sub-clothing from the main clothing and to wear the main clothing in a reversible manner and the sub-clothing in a reversible manner in respective combinations thereof, thus providing up to eight different forms of appearances.

### Brief Description of the Drawings

Fig. 1 is a front view of sub-clothing according to a first embodiment of the present invention;

Fig. 2 is likewise a front view of main clothing;

Fig. 3 is likewise a front view showing the main clothing with the sub-clothing put therein;

Fig. 4 is a sectional view taken on line IV—IV of Fig. 3; and

Fig. 5 is a front view showing a second embodiment of the present invention.

### Detailed Description of the Embodiments

Preferred embodiments of the invention will be described hereunder with reference to the accompanying drawings wherein like numerals denote like or corresponding parts throughout the several sheets.

Referring to the drawings, 1 denotes a jumper-shaped main clothing in Fig. 2 whereas, in Fig. 1, 2 denotes a sub-clothing reversibly engageable with respect to said main clothing 1 and having, as will be described, sleeves 13, 13 and shoulders. The main clothing 1 is made in a different fashion in color, material, etc. from the sub-clothing 2. 1a denotes a front body, 1b denotes a back body and 3 denotes a neck base girth of said main clothing which is sewn in double by using such material as having a dump-proofing property, waterproofing property and heat retaining property (for example, gore tex: the product of Dupon Corp., U.S.A.).

The bottom *a* of the front body 2a and the back body 2b of said sub-clothing 2 comes to a lowest end thereof at a level immediately below underarms *b* thereof in this embodiment. Said front body 1a is divided into two right and left portions, the adjacent marginal portions of which are provided with fasteners 6, 6' for detachably engaging with fasteners 5, 5' provided in positions bisecting said front body 2a of said sub-clothing 2.

7 denotes a double faced female hook provided at the lower central portion of the back face of said back body 2a. The female hook 7 is engageable at its both faces with a double faced female hook 8 provided in the corresponding position of the back body 1b of said main clothing 1. 4a denotes the foremost end portions or wrists of said sleeves 4, 4 having stretching properties. 9 denotes likewise a plurality of male hooks provided on the neck base girth 3 of said main clothing 1 which are to be detachably engaged with both faced hooks 11 provided in the corresponding positions of the neck base girth 10 of said sub-clothing 2. 12 denotes a collar of the sub-clothing.

Said main clothing 1 is formed in a triplex structure comprising an outer cloth having dump-proofing property, water proofing property and heat retaining property, an inside material formed of heat retaining and heat insulating material and a lining cloth. Among the foregoing, said core tex, for example, is used as the outer cloth and an artificial cotton, for example, coated with a polyester/aluminum, or a feather is used as the inside material. In this case, when an inside cotton is used, it offers a heat retaining property of from about  $-5$  to  $20^{\circ}\text{C}$ , and when a feather is used, it offers a heat retaining property of about  $-30^{\circ}\text{C}$ . Likewise, said lining cloth is formed of such material as having moisture and gas permeabilities and also having a soft touching property such as, for example, an arms tricot. 13a denotes the foremost ends or wrists of said sleeves 13, 13 of said sub-clothing 2 which have stretching properties.

14 denotes a fastener adapted to serve as engaging means for opening and closing the central bisecting portions of said front body portion 1a of said main clothing 1. 15a, 15b fly-fronts provided along the fastener 14 for hiding thereof. 16, 17 denote male and female hooks provided in the corresponding positions of the fly-

fronts 15a, 15b which are to be overlapped. These are formed in a front and back duplex structure.

Since the first embodiment of the present invention is constituted as mentioned above, when the invented clothing is used in the extremely cold season particularly for outdoor sports such as skiing, skating, golf, field and track athletics, etc., the sub-clothing 2 is put on the main clothing 1 as shown in Fig. 3.

In this case, since the sub-clothing 2 is different in front and back materials, colors, etc. from the main clothing 1, the sub-clothing is worn over the main clothing 1 in a reversible fashion, i.e., the fastener 14 is opened and the both faced female hook 7 provided at the center of the inner side of the back body 2b is detached from the both faced male hook 8 provided in the corresponding position of the main clothing 1 and at the same time, the both faced female hook 11 provided at the neck base girth 10 of the sub-clothing 2 is detached from the both faced male hook 9 provided in the corresponding position of the main clothing 1.

In this way, the main clothing 1 and the sub-clothing 2 can be combined and used in six different ways in total, i.e., the jumper-shaped main clothing 1 alone can be used in two ways; one for the front and the other for the reversed, and the sub-clothing 2 can be reversibly put on the reversible main clothing 1 in four different ways. The invented clothing can be used for cold protection, or as rainwear by making the sub-clothing 2 using a water-repellent material.

Fig. 5 illustrates a second embodiment of the present invention. In this embodiment, the sub-clothing 2' is prepared in a sleeveless shape and provided with several pockets on the front body 2'a for keeping fishing equipments. Because of the foregoing arrangement, the sub-clothing 2' alone can be put on as a fishing vest. In addition, the sub-clothing 2' can also be worn on the main clothing 1' in such a manner as to pulling out the both sleeves 4, 4 of main clothing 1 through openings 20, 20 defined in the shoulders of the sub-clothing 2'. Consequently, the jumper-shaped main clothing 1 alone can be worn in two different ways in a reversible manner, and the vest-shaped sub-clothing 2' alone can also be used in two reversible ways. In addition, the reversible sub-clothing 2' can be combined with the reversible main clothing 1' in four different ways, thus making 8 different ways in total. In this respect, the second embodiment is different from the first embodiment. In the drawings, 21, 22 denote both faced male and female hooks for engaging the lower half of the front body 2'a of the vest-shaped clothing 2' to the front body 1a of the main clothing 1.

As described in the foregoing, the present invention is constituted in such a manner as that a reversible sub-clothing is worn over a reversible main clothing. Therefore, by making the front and the back of the main clothing and the sub-clothing different in color or in material, the main clothing alone can be used in two reversible manners and

the sub-clothing alone can also be used in two reversible manners. In addition, the sub-clothing can be worn over the main clothing in four different ways in mutually reversible manners thereby making the total in 8 different ways thus enabling to meet multifunctions and multipurposes.

### Claims

1. A layered clothing comprising a jumper-shaped main clothing (1) having a pair of sleeves (4) and a sub-clothing (2, 2') attachable to the main clothing (1), characterized in that said main clothing (1) comprises: a plurality of both faced male hooks (9) on the neck base girth (3) which are detachably engageable with both faced hooks (11) provided at the corresponding positions of the neck-base girth (10) of said sub-clothing (2, 2'), and a both faced male hook (8) provided at the center of the back body (1b) of said main clothing (1), said both faced male hook (8) being detachably engageable with a both faced female hook (7) provided at the corresponding position of the back body (2b, 2b') of said sub-clothing (2, 2').

2. A clothing as claimed in claim 1, wherein said main clothing (1) further comprises fasteners (6, 6') at adjacent marginal portions of the divided front body (1a) thereof, said fasteners (6, 6') being provided for detachably engaging fasteners (5, 5') in positions bisecting a front body (2a) of said sub-clothing (2).

3. A clothing as claimed in claim 1 or 2, wherein said sub-clothing (2) comprises a pair of sleeves (13), a front body (2a), which is divided into two portions, the bottom (a) of said front body (2a) and said back body (2b) coming to a lowest end thereof at a level immediately below underarms (b) thereof, said sub-clothing (2) and said main clothing (1) being made of a material having water-proofing and heat-retaining properties.

4. A clothing as claimed in claim 1 or 2, wherein said sub-clothing is a vest-shaped clothing (2'), having substantially the same body length as that of clothing (1) and also having several pockets (18) on the front body (2a') thereof.

5. A clothing as claimed in claim 4, wherein said main clothing (1) comprises both faced male hooks (21) at the lower half of the front body (1a) which are in corresponding positions of both faced female hooks (22) provided at the front body (2a') of the vest-shaped clothing (2').

6. A clothing as claimed in a preceding claim, wherein the front body (1a) of said main clothing (1) comprises overlapping fly-fronts (15a, 15b), provided along a fastener (14) for opening and closing a central bisecting portion of said front body (1a), and male and female hooks (16, 17) provided in the corresponding positions of the fly-fronts (15a, 15b).

### Patentansprüche

1. Mehrschichtige Kleidung, bestehend aus einem pullover-förmigen Hauptbekleidungsstück

(1) mit zwei Ärmeln (4) und aus einem Sekundärbekleidungsstück (2, 2'), das an dem Hauptbekleidungsstück befestigbar ist, dadurch gekennzeichnet, daß zu dem Hauptbekleidungsstück (1) gehören: zahlreiche doppelseitige Außenhaken (9) an dem unteren Nackenumfang (3), welche lösbar mit doppelseitigen Innenhaken (11) in Eingriff bringbar sind, welche an zugeordneten Stellen des unteren Nackenumfangs (10) des Sekundärbekleidungsstückes (2, 2') vorgesehen sind, un ein doppelseitiger Außenhaken (8), der in der Mitte des Rückenkörperteils (1b) des Hauptbekleidungsstückes (1) vorgesehen ist, wobei der doppelseitige Außenhaken (8) lösbar in Eingriff mit einem doppelseitigen Innenhaken (7) bringbar ist, der an der zugeordneten Stelle des Rückenkörperteils (2b, 2b') des Sekundärbekleidungsstückes (2, 2') vorgesehen ist.

2. Kleidung nach Anspruch 1, dadurch gekennzeichnet, daß zu dem Hauptbekleidungsstück (1) weiterhin Befestigungselemente (6, 6') an aneinander grenzenden Randabschnitten ihres geteilten Vorderkörperteils (1a) gehören, wobei die Befestigungselemente (6, 6') für den lösbaren Eingriff in Befestigungselemente (5, 5') an Stellen vorgesehen sind, die einen Vorderkörperabschnitt (2a) des Sekundärbekleidungsstückes (2) halbiert.

3. Kleidung nach Anspruch 1 oder 2, dadurch gekennzeichnet, daß zu dem Sekundärbekleidungsstück (2) zwei Ärmel (13) und ein Vorderkörperteil (2a) gehören, der in zwei Abschnitte unterteilt ist, wobei der untere Abschnitt (a) des Vorderkörperteils (2a) und des Rückenkörperteils (2b) in einer Höhe unmittelbar unterhalb ihrer Unterarme (b) zu ihrem untersten Ende kommen, wobei das Sekundärbekleidungsstück (2) un das Hauptbekleidungsstück (1) aus einem wasserdichten und wärmerückhaltenden Material hergestellt sind.

4. Kleidung nach Anspruch 1 oder 2, dadurch gekennzeichnet, daß das Sekundärbekleidungsstück (2') aus einem westenförmigen Kleidungsstück (2') besteht, das im wesentlichen dieselbe Körperlänge aufweist wie die des Hauptbekleidungsstück (1) und auch zahlreiche Taschen (18) auf seinem Vorderkörperteil (2a') besitzt.

5. Kleidung nach Anspruch 4, dadurch gekennzeichnet, daß das Hauptbekleidungsstück (1) doppelseitige Außenhaken (21) an der unteren Hälfte des Vorderkörperteils (1a) aufweist, die sich in zugeordneten Stellungen zu doppelseitigen Innenhaken (22) befinden, welche an dem Vorderkörperteil (2a') des westenförmigen Kleidungsstückes (2a) vorgesehen sind.

6. Kleidung nach einem vorangehenden Anspruch, dadurch gekennzeichnet, daß der Vorderkörperteil (1a) des Hauptbekleidungsstückes (1) überlappende vordere Flügelabschnitte (15a, 15b) aufweist, die längs einer Befestigungseinrichtung (14) zum Öffnen und Schließen eines mittleren halbierenden Abschnitts des Vorderkörperteils (1a) vorgesehen sind, und daß Außen- und Innenhaken (16, 17) an den entsprechenden Stellen der vorderen Flügelabschnitte (15a, 15b) vorgesehen sind.

## Revendications

1. Vêtement à plusieurs couches, comprenant un vêtement principal (1) en forme de vareuse, muni d'une paire de manches (4), et un vêtement auxiliaire (2, 2') agencé de manière à pouvoir être fixé au vêtement principal (1), caractérisé en ce que ledit vêtement principal (1) comprend: une pluralité de crochets mâles (9) à double face disposés sur le pourtour (3) de la base du col et agencés de manière à pouvoir venir en prise de façon amovible avec des crochets (11) à double face, prévus aux emplacements correspondants sur le pourtour (10) de la base du col dudit vêtement auxiliaire (2, 2'), et un crochet mâle (8) à double face, prévu au centre de la pièce dorsale (1b) dudit vêtement principal (1), ledit crochet mâle (8) à double face étant agencé de manière à pouvoir venir en prise de façon amovible avec un crochet femelle (7) à double face, prévu à l'emplacement correspondant de la pièce dorsale (2b, 2b') dudit vêtement auxiliaire (2, 2').

2. Vêtement selon la revendication 1, dans lequel ledit vêtement principal (1) comprend en outre des fermetures (6, 6') disposées sur des bordures voisines l'une de l'autre de la pièce frontale partagée (1a) dudit vêtement principal, lesdites fermetures (6, 6') étant conçues pour venir en prise de façon amovible avec des fermetures (5, 5') disposées de façon à couper en deux une pièce frontale (2a) dudit vêtement auxiliaire (2).

3. Vêtement selon la revendication 1 ou 2, dans lequel ledit vêtement auxiliaire (2) comprend une paire de manches (13), une pièce frontale (2a) divisée en deux parties, la base (a) de ladite pièce frontale (2a) et de ladite pièce dorsale (2b) formant l'extrémité inférieure dudit vêtement auxiliaire, laquelle est située à un niveau immédiatement inférieur à la partie (b), de celui-ci, correspondant aux aisselles, ledit vêtement auxiliaire (2) et ledit vêtement principal (1) étant faits en une matière possédant des propriétés d'imperméabilité à l'eau et de rétention de chaleur.

4. Vêtement selon la revendication 1 ou 2, dans lequel ledit vêtement auxiliaire est un vêtement (2') en forme de gilet, dont les pièces possèdent sensiblement la même longueur que celles du vêtement (1) et dont la pièce frontale (2a') comprend également plusieurs poches (18).

5. Vêtement selon la revendication 4, dans lequel ledit vêtement principal (1) comprend, à la moitié inférieure de la pièce frontale (1a), des crochets mâles (21) à double face, qui se trouvent en des emplacements correspondant à des crochets femelles (22) à double face, prévus sur la pièce frontale (2a') du vêtement (2') en forme de gilet.

6. Vêtement selon l'une des revendications précédentes, dans lequel la pièce frontale (1a) dudit vêtement principal (1) comprend des pattes libres (15a, 15b) de recouvrement, prévues le long d'une fermeture (14) destinée à ouvrir et fermer une partie centrale de partage de ladite pièce frontale (1a), et des crochets mâles et femelles (16, 17) prévus en des emplacements correspondants sur les pattes libres (15a, 15b).

FIG.1

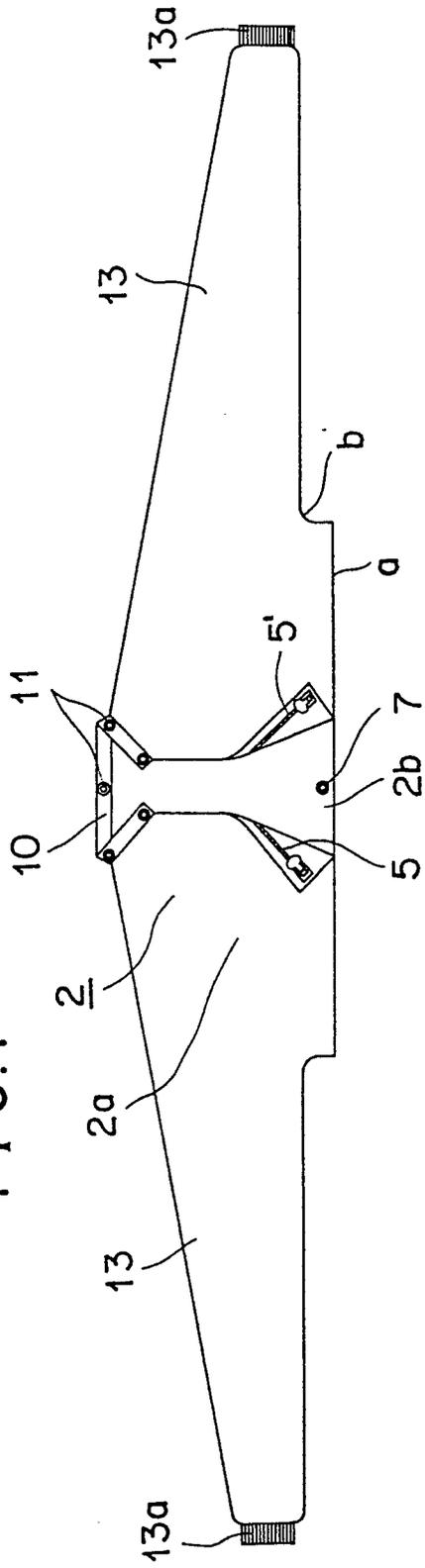


FIG.4

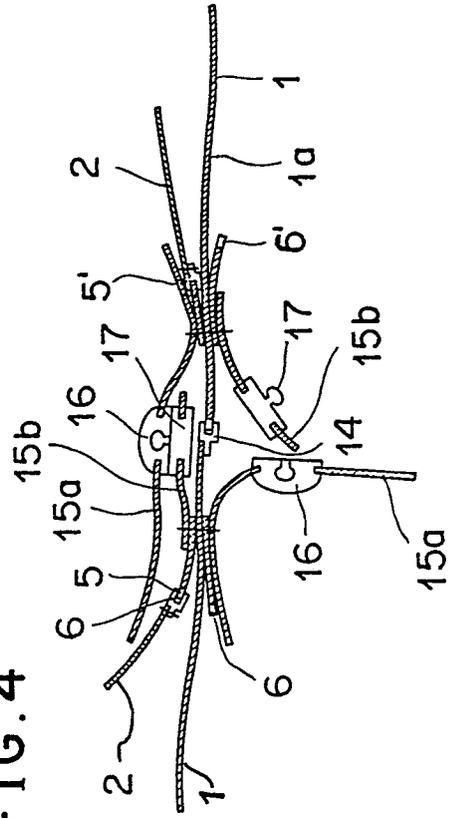


FIG. 2

