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(54) Thermal protection clothing

(57) The present invention relates to a thermal protection garment (1) for cooling a wearer exposed to high temperatures. The garment has a first outer layer (2) of heat resistant material, a second inner layer (4) of breathable material, and a separator layer (6) between the outer layer and the inner layer spacing them apart. The separator layer is formed and arranged so as to define a plurality of air channels (26), between the outer and inner

layer, which are in vapour-transmitting communication with the inner layer. The air channels each have at least one wall portion of a flexible material readily and reversibly deformable as a result of activity by a wearer, whereby humid air in the channels is pumped through exhaust vents (40). A multi-layer garment material assembly suitable for fabricating thermal protection garments is also described.

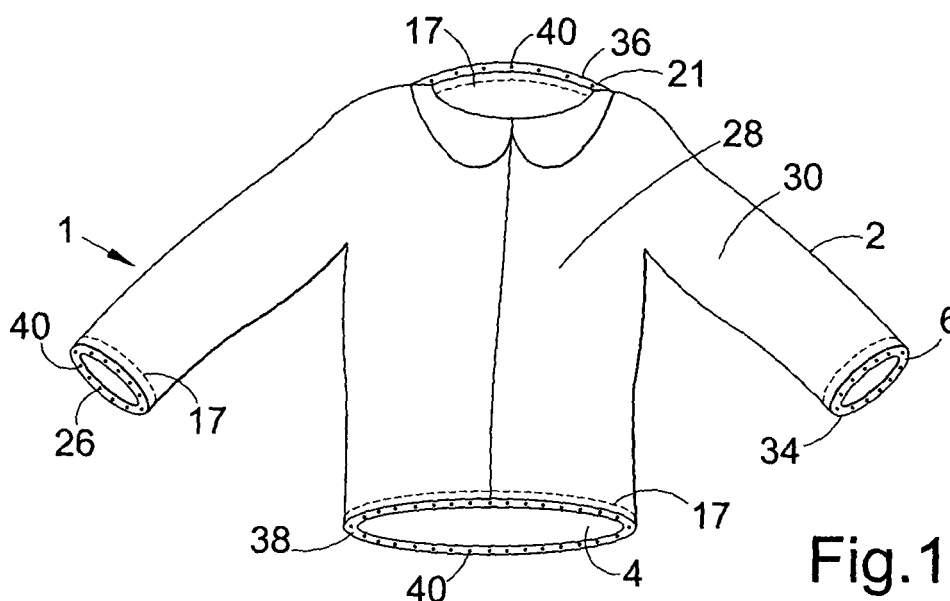


Fig.1



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 5 515 543 A (GIOELLO ET AL) 14 May 1996 (1996-05-14) * abstract * * column 7, line 2 - line 15 * * column 9, line 23 - line 37 * * column 11, line 21 * * column 11, line 66 - column 12, line 7 *	1,9-14, 17-20	INV. A62B17/00
Y	* figures 1,2,27 * * column 5, line 11 - line 25 * * column 7, line 9 - line 15 * * column 7, line 25 - line 42 *	2-7,16	
X	EP 0 108 865 A (SIGRI ELEKTROGRAPHIT GMBH) 23 May 1984 (1984-05-23) * claim 1; figure 3 *	8	
Y	US 5 150 476 A (STATHAM ET AL) 29 September 1992 (1992-09-29) * claim 7 * * column 4, line 66 - column 5, line 15; claim 9 *	2-7	
Y	US 5 131 097 A (GRILLIOT ET AL) 21 July 1992 (1992-07-21) * claim 5; figures 6,7 *	16	
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
		18 May 2006	Tempels, M
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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