

(19)



Europäisches Patentamt  
European Patent Office  
Office européen des brevets

(11) Publication number:

**0 365 491**  
**A3**

(12)

# EUROPEAN PATENT APPLICATION

(21) Application number: 89830437.3

(51) Int. Cl.<sup>5</sup>: D04H 13/00, A41D 31/02

(22) Date of filing: 13.10.89

(30) Priority: 20.10.88 IT 2238188

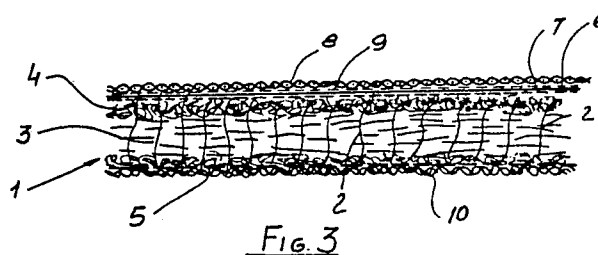
(43) Date of publication of application:  
25.04.90 Bulletin 90/17(84) Designated Contracting States:  
AT BE CH DE ES FR GB GR LI LU NL SE(88) Date of deferred publication of the search report:  
22.08.90 Bulletin 90/34(71) Applicant: FISI FIBRE SINTETICHE S.p.A.  
Via Milano, 53  
I-22059 Robbiate (Como)(IT)(72) Inventor: Siniscalchi, Lucio  
Fisi Fibre Sintetiche S.p.A. Via Milano, 53  
I-22059 Robbiate (Como)(IT)(74) Representative: Cicogna, Franco  
Ufficio Internazionale Brevetti Dott.Prof.  
Franco Cicogna Via Visconti di Modrone,  
14/A  
I-20122 Milano(IT)

(54) Soft thermally insulating water proofing and perspiring wadding for cloth articles, in particular sports cloth articles.

(57) The present invention relates to a soft, thermally insulating, waterproofed and breathing wadding for clothing articles, in particular sports clothing articles.

This wadding is characterized in that it essentially comprises a carded wadding material layer (1), including thermally insulating air pockets in its central portion (3), covered on its two faces, by fibre layers which have been treated by suitable resins (4,5).

Moreover on the wadding surface destined to be exposed to the outside, there is provided a polyurethane membrane (6), optionally coupled to an elasticized fabric (8), whereas, on the opposite surface, a resilient fabric covering (10) may be applied.



EP 0 365 491 A3



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	EP-A-0 161 380 (FISI FIBRE SINTETICHE) * Claims 1,4,5; page 1, line 3 - page 8, line 6; figure 1 * ---	1-5	D 04 H 13/00 A 41 D 31/02
A	EP-A-0 214 939 (FISI FIBRE SINTETICHE) * Claims 1-6,9; page 1, line 3 - page 6, line 19; figure 3 * ---	1,7	
A	US-A-3 323 959 (A. KRECKL et al.) * Claims 1,2; column 2, line 20 - column 6, line 37; column 8, lines 20-51; example 3; figures 1,2 * ---	1,2,3,6 ,8,9	
A	US-A-4 761 334 (L.J. RAUTENBERG) * Claims 1,4,6,9-11; column 1, line 42 - column 7, line 20; figures 1-3 * -----	1,5-9	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			D 04 H A 41 D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 23-05-1990	Examiner BLASBAND I.
<b>CATEGORY OF CITED DOCUMENTS</b>			
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		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	