



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>5</sup> :</b> <b>A61F 13/00</b>	<b>A3</b>	<b>(11) International Publication Number:</b> <b>WO 94/23677</b> <b>(43) International Publication Date:</b> 27 October 1994 (27.10.94)												
<b>(21) International Application Number:</b> PCT/GB94/00767 <b>(22) International Filing Date:</b> 12 April 1994 (12.04.94) <b>(30) Priority Data:</b> <table border="0"> <tr> <td>9307540.6</td> <td>13 April 1993 (13.04.93)</td> <td>GB</td> </tr> <tr> <td>9311959.2</td> <td>10 June 1993 (10.06.93)</td> <td>GB</td> </tr> <tr> <td>9323861.6</td> <td>19 November 1993 (19.11.93)</td> <td>GB</td> </tr> <tr> <td>9403762.9</td> <td>26 February 1994 (26.02.94)</td> <td>GB</td> </tr> </table> <b>(71)(72) Applicant and Inventor:</b> MILLS, Nicholas, John [GB/GB]; Kingsbank Farmhouse, Kingsbank Lane, Beck- ley, Near Rye, East Sussex TN31 6RU (GB).		9307540.6	13 April 1993 (13.04.93)	GB	9311959.2	10 June 1993 (10.06.93)	GB	9323861.6	19 November 1993 (19.11.93)	GB	9403762.9	26 February 1994 (26.02.94)	GB	<b>(81) Designated States:</b> AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TT, UA, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> <b>(88) Date of publication of the international search report:</b> 23 February 1995 (23.02.95)
9307540.6	13 April 1993 (13.04.93)	GB												
9311959.2	10 June 1993 (10.06.93)	GB												
9323861.6	19 November 1993 (19.11.93)	GB												
9403762.9	26 February 1994 (26.02.94)	GB												
<b>(54) Title:</b> THERMAL COVERINGS/WOUND DRESSINGS <b>(57) Abstract</b> <p>A laminate of a reflective foil of metallised polyester and a heat-softenable polyethylene film is perforated to allow transmission of water vapour and is used as a thermal covering or jacket for animals and humans. The laminate may form a large sheet overprinted with advisory shapes for cutting out to wrap specified body parts. The laminate may also be used as a support for wound dressing with an overprinted camouflage pattern. The laminate may be secured to itself or other surfaces such as under/over blankets or under garments by heat bonding. The reflective metallised film reflects back the body's own heat which is advantageous in wound/burn healing and incorporates a method for visualising the underlying wound/burn.</p>														

*FOR THE PURPOSES OF INFORMATION ONLY*

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AT	Austria	GB	United Kingdom	MR	Mauritania
AU	Australia	GE	Georgia	MW	Malawi
BB	Barbados	GN	Guinea	NE	Niger
BE	Belgium	GR	Greece	NL	Netherlands
BF	Burkina Faso	HU	Hungary	NO	Norway
BG	Bulgaria	IE	Ireland	NZ	New Zealand
BJ	Benin	IT	Italy	PL	Poland
BR	Brazil	JP	Japan	PT	Portugal
BY	Belarus	KE	Kenya	RO	Romania
CA	Canada	KG	Kyrgyzstan	RU	Russian Federation
CF	Central African Republic	KP	Democratic People's Republic of Korea	SD	Sudan
CG	Congo	KR	Republic of Korea	SE	Sweden
CH	Switzerland	KZ	Kazakhstan	SI	Slovenia
CI	Côte d'Ivoire	LI	Liechtenstein	SK	Slovakia
CM	Cameroon	LK	Sri Lanka	SN	Senegal
CN	China	LU	Luxembourg	TD	Chad
CS	Czechoslovakia	LV	Latvia	TG	Togo
CZ	Czech Republic	MC	Monaco	TJ	Tajikistan
DE	Germany	MD	Republic of Moldova	TT	Trinidad and Tobago
DK	Denmark	MG	Madagascar	UA	Ukraine
ES	Spain	ML	Mali	US	United States of America
FI	Finland	MN	Mongolia	UZ	Uzbekistan
FR	France			VN	Viet Nam
GA	Gabon				

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 5 A61F13/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 5 A61F A61D A47G A41D A47J B65D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE WPI Week 8743, Derwent Publications Ltd., London, GB; AN 87-304851 & NL,A,8 600 642 (BARA) 1 October 1987 see page 1, line 24 - line 33 see page 2, line 14 - line 34 see page 3, line 27 - line 32; figure 2 see abstract ---	1,3,6-8, 10-13, 23,25, 27-29
X	US,A,4 472 835 (W.H. CLARK) 25 September 1984 see column 2, line 30 - line 33 see column 2, line 58 - line 61 --- -/--	1,3,6

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\* & \* document member of the same patent family

Date of the actual completion of the international search

5 January 1995

Date of mailing of the international search report

23.01.95

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Nice, P

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP,A,0 146 394 (PERIFLEUR) 26 June 1985 see page 2, line 3 - line 11 see page 2, line 19 - page 3, line 5 see page 5, line 20 - page 6, line 1 see page 6, line 14 - line 21 see page 7, line 6 - line 7 see page 8, line 13 - page 9, line 13 see abstract	1,31
A	----	21,26
A	GB,A,2 199 501 (I.F. MARTIN) 13 July 1988  see abstract	6,7, 10-12, 15,23
A	---- DE,A,31 41 668 (WENKO-WENSELAAR) 5 May 1983 see abstract see page 2, line 19 - line 22 see page 4, line 8 - line 13	1,13
A	---- FR,A,2 612 948 (P.E. CHAVANNE) 30 September 1988 see page 2, line 7 - line 19	1,3,6,24
A	---- DATABASE WPI Week 8720, Derwent Publications Ltd., London, GB; AN 87-136733 & DE,A,35 39 533 (R.K. LIEDTKE) 14 May 1987	15,27,28
X	---- US,A,4 136 412 (M. WILHELM) 30 January 1979 see column 2, line 29 - line 31 see column 2, line 57 - line 64 see column 3, line 8 - line 23; figure 3	31
X	---- DATABASE WPI Week 8247, Derwent Publications Ltd., London, GB; AN 82-02182J & US,A,4 358 490 (K. NAGAI) 9 November 1982 see abstract	31
A	----	33
A	---- DATABASE WPI Week 8416, Derwent Publications Ltd., London, GB; AN 84-101131 & WO,A,84 01353 (LUDLOW) 12 April 1984 see abstract	32
	----	

-/--

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DATABASE WPI Week 8625, Derwent Publications Ltd., London, GB; AN 86-157493 & GB,A,2 168 312 (METAL BOX) 18 June 1986 see abstract ---	32
A	CH,A,327 666 (L. MONETTI) 31 March 1958 see page 1, line 19 - line 21 see page 1, line 54 - line 57; figure 1 ---	33
A	DATABASE WPI Week 8638, Derwent Publications Ltd., London, GB; AN 86-246724 & EP,A,0 194 564 (HORNSCHUCH) 17 September 1986 see abstract -----	33

**Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

1. Claims: 1-30 Reflective metal film incorporated in a perforated thermal cover sheet or a wound dressing.
2. Claims: 31-33 Part-metallised thermal cover.

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US-A-4472835	25-09-84	NONE	
EP-A-0146394	26-06-85	DE-A- 3474266 WO-A- 8502582	03-11-88 20-06-85
GB-A-2199501	13-07-88	NONE	
DE-A-3141668	05-05-83	NL-A- 8204032	16-05-83
FR-A-2612948	30-09-88	NONE	
US-A-4136412	30-01-79	DE-A- 2740412 BE-A- 870298 FR-A- 2402432	22-03-79 02-01-79 06-04-79
CH-A-327666		NONE	