



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 1 067 238 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
02.05.2001 Bulletin 2001/18

(51) Int Cl.7: **D21F 7/08**

(43) Date of publication A2:
10.01.2001 Bulletin 2001/02

(21) Application number: **00850126.4**

(22) Date of filing: **06.07.2000**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE**
Designated Extension States:
AL LT LV MK RO SI

(72) Inventor: **Joyce, Michael J.**
Clifton Park, New York 12065 (US)

(74) Representative: **Giver, Sören Bo et al**
Awapatent AB,
P.O. Box 5117
200 71 Malmö (SE)

(30) Priority: **09.07.1999 US 350711**

(71) Applicant: **ALBANY INTERNATIONAL CORP.**
Albany, New York 12204 (US)

(54) Multi-axial press fabric

(57) A multi-axial press fabric includes a base fabric and several layers of staple fiber material attached to the base fabric by needling. The base fabric has at least one layer assembled by spirally winding a woven fabric strip. The base fabric takes the form of an endless loop. The yarns of the woven fabric strip accordingly lie in directions different from the machine- and cross-machine directions of the base fabric, giving the base fabric multi-axial characteristics. Individual fibers in the several layers of staple fiber material attached to the base fabric are predominantly oriented at oblique angles relative to the machine direction of the press fabric. More specifically, they form a crisscrossed angular web.

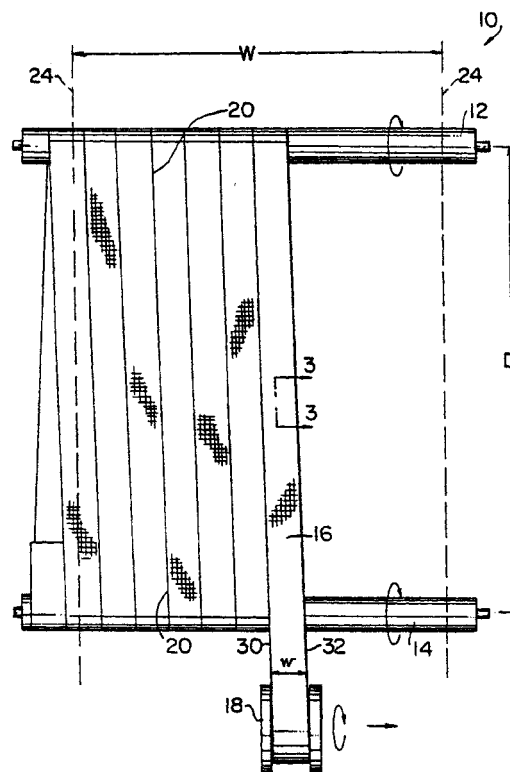


FIG. 1

EP 1 067 238 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 85 0126

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.7)
D,A	US 5 360 656 A (REXFELT JAN ET AL) 1 November 1994 (1994-11-01) * abstract; claim 1; figures * * column 4, line 19 - column 5, line 50 * ---	1	D21F7/08
A	US 5 202 170 A (HSU CHIEN-YEH ET AL) 13 April 1993 (1993-04-13) * abstract; figures * -----	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			D21F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 15 March 2001	Examiner Helpiö, T.
CATEGORY OF CITED DOCUMENTS 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			

EPO FORM 1503 03/82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 85 0126

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

15-03-2001

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5360656 A	01-11-1994	SE 468602 B	15-02-1993
		AT 129536 T	15-11-1995
		AT 167536 T	15-07-1998
		AU 654165 B	27-10-1994
		AU 9098691 A	22-07-1992
		BR 9107186 A	03-11-1993
		CA 2119784 A,C	09-07-1992
		DE 69114144 D	30-11-1995
		DE 69114144 T	04-04-1996
		DE 69129639 D	23-07-1998
		DE 69129639 T	15-10-1998
		EP 0563150 A	06-10-1993
		EP 0665329 A	02-08-1995
		ES 2078730 T	16-12-1995
		ES 2117311 T	01-08-1998
		FI 932608 A,B,	08-06-1993
		FI 951522 A	31-03-1995
		JP 3027414 B	04-04-2000
		JP 6503385 T	14-04-1994
		NO 304750 B	08-02-1999
		NO 972476 A	30-05-1997
		SE 9004009 A	18-06-1992
		WO 9211411 A	09-07-1992
		SE 469335 B	21-06-1993
		SE 9203442 A	17-11-1992

US 5202170 A	13-04-1993	NONE	
