

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 1 096 048 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
09.05.2001 Bulletin 2001/19

(51) Int. Cl.⁷: **D03C 3/32**, D03D 51/02,
D03C 3/26, D03D 35/00

(43) Date of publication A2:
02.05.2001 Bulletin 2001/18

(21) Application number: **00120131.8**

(22) Date of filing: **25.09.2000**

(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

(30) Priority: **28.09.1999 IT MI992011**

(71) Applicant: **TEXTILMA AG**
6052 Hergiswil / NW (CH)

(72) Inventor: **Villa, Carlo**
20066 Melzo (MI) (IT)

(74) Representative:
Schmauder, Klaus Dieter et al
Schmauder & Partner AG
Patentanwälte
Zwängiweg 7
8038 Zürich (CH)

(54) **Automatic needle loom for the manufacture of ribbons**

(57) A device for textile product manufacture comprising a jacquard system (3) for warp thread shed formation characterised in that the jacquard operation is driven by a synchronous motor (1) separated from the motor (2) which drives the weaving loom movement and synchronised with the same.

EP 1 096 048 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 12 0131

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)
X	FR 2 660 672 A (STAUBLI SA ETS) 11 October 1991 (1991-10-11)	1,4,5	D03C3/32 D03D51/02
Y	* page 2, line 7 - line 29; figure 2 * ---	2,3	D03C3/26 D03D35/00
Y,D	US 5 613 526 A (PALAU JOSEPH ET AL) 25 March 1997 (1997-03-25) * column 2, line 15 - line 51; figures * ---	2,3	
X	PATENT ABSTRACTS OF JAPAN vol. 016, no. 043 (C-0907), 4 February 1992 (1992-02-04) & JP 03 249233 A (MURATA MACH LTD), 7 November 1991 (1991-11-07) * abstract * ---	1	
A	DE 87 10 997 U (JÄGER) 26 November 1987 (1987-11-26) * the whole document * ---	1,4	
A	WO 97 33024 A (PALMER RAYMOND LESLIE) 12 September 1997 (1997-09-12) * page 1, line 17 - page 2, line 8 * ---	1,2,4	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
A	EP 0 893 525 A (RUETI AG MASCHF) 27 January 1999 (1999-01-27) * the whole document * ---	1	D03C D03D
A	DE 38 03 618 A (MAGEBA TEXTILMASCHINEN GMBH) 17 August 1989 (1989-08-17) * column 1, line 41 - line 50; figure 2 * -----	1	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 7 March 2001	Examiner Rebiere, J-L
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 12 0131

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.

07-03-2001

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
FR 2660672 A	11-10-1991	DE 9102560 U IT 221747 Z	23-05-1991 20-10-1994
US 5613526 A	25-03-1997	FR 2724948 A DE 69509995 D DE 69509995 T EP 0704563 A ES 2131784 T JP 8170241 A	29-03-1996 08-07-1999 07-10-1999 03-04-1996 01-08-1999 02-07-1996
JP 03249233 A	07-11-1991	NONE	
DE 8710997 U	26-11-1987	CA 1320100 A DE 3874723 D WO 8901540 A EP 0327613 A US 4986315 A	13-07-1993 22-10-1992 23-02-1989 16-08-1989 22-01-1991
WO 9733024 A	12-09-1997	EP 0885319 A	23-12-1998
EP 0893525 A	27-01-1999	NONE	
DE 3803618 A	17-08-1989	NONE	

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82