

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : D04B 9/12	A1	(11) International Publication Number: WO 97/34036	
		(43) International Publication Date: 18 September 1997 (18.09.97)	
(21) International Application Number: PCT/EP97/01235	(81) Designated States: BR, CN, CZ, JP, KR, MX, PL, SG, TR, US, Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).		
(22) International Filing Date: 11 March 1997 (11.03.97)			
(30) Priority Data: 196 09 653.7 12 March 1996 (12.03.96) DE	Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>		
(71) Applicant (for all designated States except US): SCHMIDT, Ursula, Dorothea [AT/AT]; Gerengasse 37/10, A-3500 Krems (AT).			
(72) Inventor; and (75) Inventor/Applicant (for US only): SCHMIDT, Walter, Richard [AT/AT]; Gerengasse 37/10, A-3500 Krems (AT).			
(74) Agent: KUHLEN, WACKER & PARTNERS; Alois-Steinecker-Strasse 22, D-85354 Freising (DE).			

(54) Title: PROCESS AND CIRCULAR KNITTING MACHINE FOR MANUFACTURING A PATTERNED PILE FABRIC AND PILE ELEMENT THEREFOR

(57) Abstract

A patterned pile fabric with uncut and severed pile loops is manufactured on a circular knitting machine in which pile elements (1) are arranged in a cylinder (C) provided with an upper and a lower pile forming ledge divided by a holding hook. For the knitting and pile forming action the pile elements (1) are individually selected and actuated at least to two different positions in which one of the alternative pile forming ledges is arranged between the needles (N). Pile loops drawn out over the upper pile forming ledges are cleared from the pile elements in the subsequent feeder by an additional clearing movement while pile loops formed over the lower pile ledge will remain on the pile elements. Those pile loops will slide downwardly along the stems of the pile elements by the subsequent knitting. In a continuation of the lower pile forming ledge the stems of the pile elements are provided with a cutting edge (1C) that will cooperate with a cutting edge (2C) of cutting elements (2) so that all pile loops coming to this continuation section are severed by a cutting movement of the cutting elements.

