

Title (en)

METHOD AND DEVICE FOR ORIENTING INDIVIDUAL FIBRES AND/OR FILAMENTS PRESENT IN A WEB

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ORIENTIERUNG DER, IN EINEM VLIESTOFF BEFINDLICHEN, FASER ODER DER INDIVIDUELLEN FILAMENTEN

Title (fr)

PROCEDE ET DISPOSITIF PERMETTANT L'ORIENTATION DE FIBRES ET/OU FILAMENTS INDIVIDUELS PRESENTS DANS UN VOILE

Publication

EP 1194627 B1 20050518 (FR)

Application

EP 00945929 A 20000712

Priority

- EP 00945929 A 20000712
- EP 0006858 W 20000712
- EP 99870152 A 19990712

Abstract (en)

[origin: WO0104404A1] The invention concerns a method for obtaining adequate orientation of elements constituting a web, such as fibres and/or filaments, for example derived from a card, characterised in that it consists in: subjecting the fibre to a pre-looping step produced by the interpenetration of a first set of looping discs (11) borne on a common transverse shaft (10) and continuously driven in rotation at a first speed (V1), and of a first set of fixed looping elements (12), the set of looping discs (11) and the set of looping elements (12) having a predetermined gauge (j) so as to cause the fibres and/or filaments to be pre-looped with an undulating value or interval (j). retaining with blocking means said fibres and/or filaments at regular intervals by a length (n x j) where n is an integer ranging between 2 and 20; allowing the pre-looped fibres and/or filaments to expand so as to produce large undulations having an undulating value or interval (n x j); and spreading by simple drawing the pre-looped fibres and/or filaments over an undulation value or interval (n x j). The present invention also concerns a device for implementing said method.

IPC 1-7

D04H 11/08; **D04B 39/00**

IPC 8 full level

D04B 39/00 (2006.01); **D04H 11/08** (2006.01)

CPC (source: EP US)

D04B 39/00 (2013.01 - EP US); **D04H 11/08** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0104404 A1 20010118; AT E295907 T1 20050615; AU 5985600 A 20010130; CA 2377419 A1 20010118; DE 60020237 D1 20050623; DE 60020237 T2 20060112; DK 1194627 T3 20050815; EP 1194627 A1 20020410; EP 1194627 B1 20050518; ES 2241623 T3 20051101; PT 1194627 E 20050831; US 6519820 B1 20030218

DOCDB simple family (application)

EP 0006858 W 20000712; AT 00945929 T 20000712; AU 5985600 A 20000712; CA 2377419 A 20000712; DE 60020237 T 20000712; DK 00945929 T 20000712; EP 00945929 A 20000712; ES 00945929 T 20000712; PT 00945929 T 20000712; US 3124202 A 20020111