

Title (en)

Method and device for fibrillating easily fibrillated cellulose fibres, particularly tencel fibres

Title (de)

Verfahren und Vorrichtung zum Fibrillieren von leicht fibrillierbaren Cellulosefasern, insbesondere von Tencel-Fasern

Title (fr)

Procédé et dispositif de fibrillation de fibres cellulosiques facilement fibrillables, notamment de fibres tencel

Publication

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Application

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Priority

CH 117396 A 19960508

Abstract (en)

Fibrillating a web of textile fabric (3) containing cellulose fibres, particularly Lyocell (RTM) fibres, comprises using a high-velocity stream of fluid impinging on the spread-out web and accelerating it to strike against an impact surface (13, 16). This procedure is repeated as often as needed till the fibre surface regions split and form fibrils. Also claimed is the apparatus for implementing the process of fibrillating web as above, in particular Tencel (RTM) fibres. The web is accelerated by the flowing fluid in a guiding gap (7) which is bounded on at least one side by a jet (9a, 9b, 10a, 10b) which has a fluid feed channel (12) and, on two opposite sides, a nozzle-like gap exit (10a, 10b) which narrows towards the guide gap. There is a valve (11) which closes each of the exits alternately.

Abstract (de)

Ein Verfahren und eine Vorrichtung zum Fibrillieren von in einer textilen Warenbahn (3) enthaltenen Cellulose-Fasern sieht vor, dass die Warenbahn (3) aus einem Warenspeicher (6) abgezogen, in einem Führungsspalt (7) durch eine Flüssigkeit mit hoher Geschwindigkeit beschleunigt und sodann gegen eine Prallfläche (13) geschleudert wird. Die Warenbahn kann abwechselnd in beiden Richtungen durch den Führungsspalt (7) geführt und an die erste Prallfläche (13) sowie eine zweite Prallfläche (16) geschleudert werden. <IMAGE>

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Citation (search report)

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- [A] US 4291442 A 19810929 - MARCO FRANCIS W
- [A] DATABASE WPI Section Ch Week 9003, Derwent World Patents Index; Class A11, AN 90-018791, XP002022985
- [A] DATABASE WPI Section Ch Week 9512, Derwent World Patents Index; Class F06, AN 95-085955, XP002022986
- [DA] R.BREIER: "Veredlung von Lyocellfasern: Erfahrungsbericht", CHEMIEFASERN/TEXTILINDUSTRIE, vol. 44, no. 96, November 1994 (1994-11-01) - December 1994 (1994-12-01), FRANKFURT AM MAIN DE, pages 812 - 815, XP000576198

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