

Title (en)

Process for making wet-laid structures containing individualized, stiffened fibers.

Title (de)

Nassverfahren zur Herstellung einer Struktur aus einzeln versteiften Fasern.

Title (fr)

Procédé de fabrication d'une structure par voie humide comprenant des fibres individuelles rigidifiées.

Publication

EP 0251673 A1 19880107 (EN)

Application

EP 87305611 A 19870624

Priority

US 87967386 A 19860627

Abstract (en)

A process for making wet-laid structures containing individualized, stiffened fibers. The wet-laid structures are obtained by: providing a slurry containing individualized, crosslinked fibers; depositing the slurry of fibers on a foraminous forming wire; directing at least one stream of fluid upon the fibers such that the fluid disperses flocculations of fibers and also inhibits the formation of additional flocculations of the fibers; and setting the fibers into a sheeted form while the fibers are in a substantially unflocculated condition. The step of setting the fibers into sheeted form may be performed by pressing the fibers against the forming wire with a screened roll, such as a cylindrical Dandy Roll. Preferably, a plurality of streams of fluid having sequentially decreasing volumetric flow rates are directed upon the fibers. The individualized, stiffened fibers may also be mixed with conventional, stiffened fibers or highly refined, stiffened fibers while in slurry form.

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D21F 1/009 (2013.01); **D21F 1/34** (2013.01); **D21F 11/00** (2013.01); **D21H 11/20** (2013.01)

Citation (search report)

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EP 0251673 A1 19880107; **EP 0251673 B1 19920226**; AU 612322 B2 19910711; AU 7476087 A 19880204; CA 1306894 C 19920901; DE 3776820 D1 19920402; FI 872843 A0 19870626; FI 872843 A 19871228; FI 90678 B 19931130; FI 90678 C 19940310

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