

Title (en)

Manufacture of composite web having absorbent properties.

Title (de)

Herstellung eines Faservlieses aus Verbundwerkstoff mit Absorptionseigenschaften.

Title (fr)

Fabrication d'une nappe de fibres composite ayant des propriétés d'absorption.

Publication

EP 0396920 A1 19901114 (EN)

Application

EP 90106820 A 19900410

Priority

US 33576489 A 19890410

Abstract (en)

A method of dispersing droplets of a polymerizable, cross-linkable material (M), in a liquid carrier (12, 16), within a fibrous web (W), in which the material (M) is to be polymerized and cross-linked, as a part of a method of manufacturing a composite web (W<1>), which comprises the fibrous web (W) dispersed inclusions of the material (M), as polymerized and cross-linked. Droplets of the material (M) are dispersed within the fibrous web by moving the fibrous web (W) through a droplet-flicking zone (Z1) and flicking droplets of the material (M), in the liquid carrier (12, 16), onto opposite sides of the fibrous web (W) as the fibrous web is moved through the droplet-flicking zone (Z1). On each of opposite sides of the fibrous web (W), a rotating brush (2, 6) has bristles (4, 8), picking up the material (M), in the liquid carrier (12, 16), and flicking droplets thereof as the brush (2, 6) rotates. Each brush (2, 6) picks up the material (M), in the liquid carrier (12, 16), from a rotating roller (10, 14) wiped by the bristles (4, 8) of such brush (2, 6). Each brush (2, 6) and the roller (10, 14) wiped by the bristles (4, 8) of such brush (2, 6) rotate, in opposite rotational senses, about parallel axes. The material (M) is polymerized and cross-linked in situ, so as to form the composite web (W<1>).

IPC 1-7

D04H 1/64; **D06B 1/02**

IPC 8 full level

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CPC (source: EP)

D04H 1/655 (2013.01)

Citation (search report)

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FR2759388A1; EP0594983A1; US6906131B2; WO9835084A1; WO03025054A1; EP1548179B2

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