

Title (en)

Method and device for impregnating a fibrous material

Title (de)

Verfahren und Vorrichtung zum Imprägnieren eines Fasermaterials

Title (fr)

Procédé et dispositif d'imprégnation d'un matériaux fibreux

Publication

EP 1749918 B1 20080528 (DE)

Application

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Priority

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Abstract (en)

[origin: EP1749918A1] Fibers are fed to an opening unit (1), e.g. fitted with beater rollers, after which weight and initial moisture is measured (2) to determine the required dosing rate. The fibers are then fed to a working chamber (6) in the form of a drum (7) fitted with rotating arms (9) that convey the fiber from the inlet (3) to the outlet (12). Concentrated treatment solution or emulsion is sprayed in controlled amounts into the chamber by nozzles (15) and mixing heads (13) rotating at high speed, e.g. 1500 to 3000 revolutions per minute, to produce a fog. An independent claim is included for the corresponding plant fitted with nozzles and mixing heads, e.g. as a rotary nozzle, incorporating local fiber opening rotors (14). The circumference of the rotors (14) and the shaft (8) is greater than the fiber length. The working chamber (6) can be followed by a drying plant.

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