

Title (en)

Apparatus for humidifying continuous textile materials and associated method

Title (de)

Vorrichtung zum Befeuchten von kontinuierlichen Textilmaterialien und zugehöriges Verfahren

Title (fr)

Dispositif pour humidifier des matières textiles continues et procédé de fabrication associé

Publication

**EP 1428923 A1 20040616 (EN)**

Application

**EP 02425756 A 20021209**

Priority

EP 02425756 A 20021209

Abstract (en)

An apparatus and a method for humidifying a continuous textile material (2) are described. The apparatus comprises: a rotatable drum (3) having an internal cavity (32), the side wall (4) of which is formed externally by a side surface (40); a tank (5) facing the side surface (40); conveying means (9,21,22) for conveying the textile material through the tank (5); and means (7) for supplying into the tank substantially saturated steam at a pressure  $P_v$  and at a temperature  $T_v$  and for supplying into the internal cavity (32) substantially saturated steam at a pressure  $P_c$  and at a temperature  $T_c$ , wherein the conveying means (9,21,22) comprise a permeable belt (9) for pushing the textile material into direct contact with the side surface (4) at least in the zone of said tank (5), the steam supplied into the internal cavity (32) being kept at a pressure  $P_c$  less than said steam pressure  $P_v$  inside the tank (5) by a certain value so as to cause partial and controlled condensation of the steam supplied into the tank (5) onto the side surface (40) and onto the textile material (2). <IMAGE>

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Citation (search report)

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