

Title (en)

PROCESS AND APPARATUS FOR RESIN IMPREGNATION OF A POROUS WEB

Title (de)

VERFAHREN UND VORRICHTUNG ZUM HARZIMPRÄGNIEREN EINES PORÖSEN GEWEBES

Title (fr)

PROCEDE ET APPAREIL PERMETTANT D'IMPREGNER DE RESINE UNE AME POREUSE

Publication

**EP 0737127 A1 19961016 (EN)**

Application

**EP 95905602 A 19941227**

Priority

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Abstract (en)

[origin: WO9518000A1] A process and apparatus are described for impregnating a porous web with a thermosettable resin. The process involves the use of resin application means comprising a large-diameter rotating roller (4) on which is deposited a liquid-form thermosettable resin in essentially uncured state; passing a porous web (2) in countercurrent contact with the thermosettable resin so as to transfer the thermosettable resin into the porous web; passing the resin-containing fibrous web in countercurrent contact with at least one small-diameter rotating roller (11, 12); and passing the resin-containing fibrous web to a heating zone (13) to partially cure the resin and form a prepreg. The process is particularly suited for application of a solventless resin formulation to a glass web in the preparation of a prepreg for an electrical laminate. The apparatus includes resin application means comprising a large-diameter rotating roller (4); means for applying a liquid-form thermosettable resin onto the rotatable roller; means for advancing, in a countercurrent direction with respect to the direction of motion of the roller, a fibrous web (2) to the roller and in contact with the thermosettable resin thereon and thence to a resin cure zone; and at least one small-diameter roller (11, 12) between the large-diameter roller and the resin cure zone (13) to apply heat to smooth the surface of the resin-containing web and to promote resin penetration thereof.

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