

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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