

Title (en)  
DEVICE AND METHOD FOR VACUUM IMPREGNATION

Title (de)  
VORRICHTUNG UND VERFAHREN ZUR VAKUUMIMPRÄGNIERUNG

Title (fr)  
DISPOSITIF ET PROCEDE D'IMPREGNATION SOUS VIDE

Publication  
**EP 1434674 B1 20090408 (DE)**

Application  
**EP 02794597 A 20020809**

Priority  
• DE 10139128 A 20010809  
• EP 0208972 W 20020809

Abstract (en)  
[origin: WO03013810A1] The invention relates to a method for the vacuum impregnation of small-particle material in an impregnating device (16, 16') comprising a dischargeable impregnating chamber (54, 84), an inlet (64, 64') for introducing the material into the impregnating chamber (54, 84), and an outlet (82, 82') for removing the material from the impregnating device (16, 16'). The inventive method comprises the following steps: a) the material is treated with a substance in order to produce a treated material having improved sealing behaviour in a stuffing screw compared to the untreated material, b) the treated material is transported to the inlet (64, 64) by means of a stuffing screw (52), c) the treated material is introduced into the impregnating chamber (54, 84) through the inlet (64, 64) by means of the stuffing screw (52) in such a way that the treated material seals the inlet (64, 64') as it is introduced, d) the material is impregnated in the impregnating chamber (54, 84) at low pressure using an impregnating agent, e) the impregnated material is transported to the outlet (82, 82), and f) the impregnated material is removed from the impregnating device (16, 16') via the outlet (82, 82) in such a way that the material seals the outlet (82, 82) as it is removed.

IPC 8 full level  
**B27N 1/02** (2006.01); **D21C 7/06** (2006.01); **D21C 1/10** (2006.01)

CPC (source: EP US)  
**B27N 1/0218** (2013.01 - EP US); **B27N 1/029** (2013.01 - EP US); **D21C 1/10** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)  
**WO 03013810 A1 20030220**; **WO 03013810 A8 20031127**; **WO 03013810 A9 20031231**; AT E427817 T1 20090415; CA 2456789 A1 20030220; CN 1568246 A 20050119; DE 10139128 A1 20030227; DE 50213431 D1 20090520; EP 1434674 A1 20040707; EP 1434674 B1 20090408; MX PA04001237 A 20050606; PL 203690 B1 20091130; PL 373760 A1 20050905; US 2004234692 A1 20041125

DOCDB simple family (application)  
**EP 0208972 W 20020809**; AT 02794597 T 20020809; CA 2456789 A 20020809; CN 02819997 A 20020809; DE 10139128 A 20010809; DE 50213431 T 20020809; EP 02794597 A 20020809; MX PA04001237 A 20020809; PL 37376002 A 20020809; US 48625904 A 20040209