

Title (en)
METHOD OF RESIN TRANSFER MOLDING

Title (de)
VERFAHREN ZUM TRANSFER-SPRITZGIESSEN VON KUNSTHARZ

Title (fr)
PROCEDE DE MOULAGE DE TRANSFERT DE RESINE

Publication
EP 0751857 A4 19980429 (EN)

Application
EP 96904479 A 19960129

Priority
• US 9600719 W 19960129
• US 37901595 A 19950127

Abstract (en)
[origin: WO9622871A1] Composite articles are prepared by resin transfer molding and an applied gas pressure during heating. A mass of reinforcement is placed into a mold (22), and the mold (22) is evacuated. A resin source (36) is connected to the mold (22), and thermosetting resin is introduced into the mold (22) from the source (36). A gas pressure source (44) is connected to the mold (22), and an external column (40) of resin is maintained in the gas pressure line (46). The mold (22) is heated to set and cure the resin within the mold (22), but the resin in the external column (40) is maintained in an unset condition. After the resin is introduced into the mold (22) and simultaneously with the heating of the resin, a gas pressure is applied to the column (40) of liquid resin, preferably at a pressure greater than the vapor pressure of water at the temperature to which the resin is heated, to prevent gas evolution to form bubbles during setting and curing and to minimize the volume of any bubbles already present in the resin from other sources.

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CPC (source: EP)
B29C 70/48 (2013.01); **B29C 37/005** (2013.01); **B29C 37/006** (2013.01)

Citation (search report)
• [X] EP 0539182 A1 19930428 - MITSUBISHI CHEM IND [JP]
• [X] EP 0054084 A1 19820623 - DALEN HENDRIK VAN
• [X] US 3975479 A 19760817 - MCCLEAN WILLIAM GEORGE
• See references of WO 9622871A1

Designated contracting state (EPC)
DE FR GB

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