

Title (en)

PROCESS FOR MANUFACTURING HOLLOW PLASTIC MOLDINGS MADE OF FIBER COMPOSITE MATERIALS.

Title (de)

VERFAHREN ZUR HERSTELLUNG VON HOHLFÖRMIGEN KUNSTSTOFFFORMTEILEN AUS FASERVERBUNDWERKSTOFFEN.

Title (fr)

PROCEDE DE FABRICATION DE PIECES MOULEES PLASTIQUES CREUSES A PARTIR DE MATERIAUX COMPOSITES CONTENANT DES FIBRES.

Publication

EP 0662031 A1 19950712 (DE)

Application

EP 93919290 A 19930908

Priority

- DE 4230469 A 19920911
- EP 9302418 W 19930908

Abstract (en)

[origin: WO9406610A1] A process is disclosed for manufacturing hollow plastic parts (6) made of fiber composites by laminating laminated layers on a core (12), by laying the laminated core (12) as a preliminary product into a negative mold (1) and by hardening the preliminary product into a plastic part (6) as a final product in a vacuum and/or an autoclave. The process has the following steps: producing a core (12) made of a gas-permeable dissolvable material, applying a flexible barrier layer (8) which is impervious to a gaseous pressure medium on the core (12), which is smaller than the final product by the thickness of the laminates and barrier layer (8), applying the desired number of laminated layers (10) on the barrier layer (8), and laying the thus obtained preliminary product into a composite negative mold (1), sealing the barrier layer (8) against the negative mold (1) at each opening (14) of the plastic molding (6), applying a relative overpressure on the side of the barrier layer (8) which faces the core (12), thus detaching the barrier layer (8) from the core (12) and pressing it against the laminate (10), detaching the core (12) once the laminate (10) is thoroughly set and removing the barrier layer (8) through at least one opening (14) of the final product.

IPC 1-7

B29C 33/52; **B29C 43/10**

IPC 8 full level

B29C 33/52 (2006.01); **B29C 43/36** (2006.01); **B29C 70/44** (2006.01)

CPC (source: EP)

B29C 33/52 (2013.01); **B29C 43/3642** (2013.01); **B29C 70/44** (2013.01); **B29L 2022/00** (2013.01)

Citation (search report)

See references of WO 9406610A1

Designated contracting state (EPC)

BE CH DE FR GB IT LI

DOCDB simple family (publication)

WO 9406610 A1 19940331; EP 0662031 A1 19950712

DOCDB simple family (application)

EP 9302418 W 19930908; EP 93919290 A 19930908