

Title (en)

METHOD OF PRODUCING A COMPOSITE PART FROM HIGH-DENSITY GLASS GRANULES

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES VERBUNDTEILS AUS EINEM HOCHDICHTEN GLASGRANULAT

Title (fr)

PROCEDE DE FABRICATION D'UNE PIECE COMPOSITE A PARTIR DE GRANULES HAUTE DENSITE DE VERRE

Publication

**EP 1877235 A2 20080116 (FR)**

Application

**EP 06794391 A 20060502**

Priority

- FR 2006050404 W 20060502
- FR 0551179 A 20050504

Abstract (en)

[origin: FR2885316A1] In the composite part production, the granulated fiber has a density of 95-99% and ratio of L/4-L/2. The fiber is obtained by mixing the material in the presents of water and adhesive. The glass fiber has a length of 6-30 mm. The fiber comprises a filament with a diameter of 5-24  $\mu$  m and the filament is coated and bounded by a glutinous material. The melting point of the glutinous material is lower than the polypropylene. The difference between the melting point of the glutinous material and the polypropylene is higher than 10[deg]C. The glutinous material contains aqueous emulsion such as ethylene vinyl acetate (10-99%) (ethylene copolymer rate equal/higher than 50%) or ethylene acid acrylic (ethylene copolymer rate equal/higher than 50%), grafted polypropylene maleic anhydride (1-30%), aminosilane (1-40%), N-butyl amine, film forming polyurethane and additives for surface-active, lubricating and anti-static processes. An independent claim is included for a composite part.

IPC 8 full level

**B29C 45/00** (2006.01); **C03C 25/26** (2018.01)

CPC (source: EP KR US)

**B29C 33/38** (2013.01 - KR); **B29C 45/0005** (2013.01 - EP US); **B29C 45/37** (2013.01 - KR); **C03C 25/26** (2013.01 - EP US); **B29K 2105/12** (2013.01 - EP US); **Y10T 428/2964** (2015.01 - EP US)

Citation (search report)

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