

Title (en)

REINFORCED, PLASTIC POLYMER, COMPOSITES AND A METHOD FOR PREPARING SAME.

Title (de)

VERSTÄRKT KUNSTSTOFFPOLYMERKOMPOSITEN UND DEREN HERSTELLUNG.

Title (fr)

COMPOSITES POLYMERES PLASTIQUES RENFORCES ET LEUR PROCEDE DE FABRICATION.

Publication

EP 0220209 A4 19881110 (EN)

Application

EP 86902195 A 19860314

Priority

NL 8500810 A 19850320

Abstract (en)

[origin: WO8605445A1] Reinforced composites comprise a plastic polymer matrix having a reinforcing agent dispersed throughout the polymer matrix wherein the reinforcing agent is coated with an interlayer consisting of a rubber which is compatible with the plastic polymer or is made compatible with the plastic polymer and which is adhered, through chemical bonding, to the reinforcing agent. The elastomeric interlayer serves as a compatibilizing layer between the plastic polymer matrix and the reinforcing agent such that both the reinforcing agent and plastic polymer matrix positively contribute to the properties of the resulting composite and such that the reinforced composites exhibit an unexpectedly superior balance of physical properties to the reinforced, plastic polymer, composite. Moreover, the physical integrity of the reinforcing agent coated with the elastomer is significantly improved.

IPC 1-7

B32B 9/04; **B32B 17/04**; **B32B 19/02**

IPC 8 full level

C08J 5/08 (2006.01); **C08K 9/08** (2006.01)

CPC (source: EP)

C08J 5/08 (2013.01); **C08K 9/08** (2013.01)

Citation (search report)

- [X] US 4425384 A 19840110 - BROWNSCOMBE THOMAS F [US]
- [X] US 3484333 A 19691216 - VANDERBILT BYRON M
- See references of WO 8605445A1

Designated contracting state (EPC)

BE DE FR GB IT NL SE

DOCDB simple family (publication)

WO 8605445 A1 19860925; AU 5620786 A 19861013; AU 576673 B2 19880901; EP 0220209 A1 19870506; EP 0220209 A4 19881110; NL 8500810 A 19861016

DOCDB simple family (application)

US 8600553 W 19860314; AU 5620786 A 19860314; EP 86902195 A 19860314; NL 8500810 A 19850320