

Title (en)

A COMPOSITE, ITS PREPARATION AND USE

Title (de)

VERBUNDWERKSTOFF UND HERSTELLUNG UND VERWENDUNG DAVON

Title (fr)

COMPOSITE, SA PREPARATION ET SON UTILISATION

Publication

EP 1478686 A1 20041124 (EN)

Application

EP 02701318 A 20020228

Priority

- FI 0200158 W 20020228
- FI 20010403 A 20010228

Abstract (en)

[origin: WO02068517A1] The invention relates to a process for producing a polymer composite comprising the steps of a) dissolving a water insoluble polymer and optionally a reinforcing filler thereof into a water soluble solvent, b) mixing water optionally containing a reinforcing filler onto the solution obtained in step a) thus forming an emulsion between the dissolved polymer and the reinforcing filler thereof and the solvent-water solution, c) allowing said solvent to evaporate simultaneously with the solidification of the polymer thus creating a porous reinforced polymer, d) covering said porous reinforced polymer with a polymerizable monomer system, and e) polymerizing said monomer system thus creating a polymer composite, provided that reinforcing fillers are present either in step a) or in step b). The invention further relates to the composite obtainable by the process and the use thereof.

IPC 1-7

C08J 9/28; **C08J 7/06**; **A61L 27/56**

IPC 8 full level

A61L 27/34 (2006.01); **A61L 27/44** (2006.01); **A61L 27/48** (2006.01); **A61L 27/56** (2006.01); **A61L 31/10** (2006.01); **A61L 31/12** (2006.01); **A61L 31/14** (2006.01); **C08J 5/00** (2006.01); **C08J 7/04** (2006.01); **C08J 7/043** (2020.01); **C08J 9/28** (2006.01); **C08J 9/40** (2006.01)

CPC (source: EP US)

A61L 27/34 (2013.01 - EP); **A61L 27/443** (2013.01 - EP); **A61L 27/446** (2013.01 - EP); **A61L 27/48** (2013.01 - EP); **A61L 27/56** (2013.01 - EP); **A61L 31/10** (2013.01 - EP); **A61L 31/126** (2013.01 - EP); **A61L 31/128** (2013.01 - EP); **A61L 31/129** (2013.01 - EP); **A61L 31/146** (2013.01 - EP); **C08J 5/00** (2013.01 - EP); **C08J 7/043** (2020.01 - EP US); **C08J 9/28** (2013.01 - EP US); **C08J 9/405** (2013.01 - EP); **C08J 2201/0544** (2013.01 - EP); **C08J 2333/12** (2013.01 - EP)

Citation (search report)

See references of WO 02068517A1

Cited by

CN113214587A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 02068517 A1 20020906; EP 1478686 A1 20041124; FI 20010403 A0 20010228

DOCDB simple family (application)

FI 0200158 W 20020228; EP 02701318 A 20020228; FI 20010403 A 20010228