

Title (en)

MANUFACTURE OF FIBER REINFORCED COMPOSITE MATERIALS WITH ISOCYANATE RESIN

Title (de)

HERSTELLUNG VON FASERVERSTÄRKTEN VERBUNDWERKSTOFFEN MIT ISOCYANATHARZ

Title (fr)

FABRICATION DE MATÉRIAUX COMPOSITES RENFORCÉS DE FIBRES AVEC UNE RÉSINE D'ISOCYANATE

Publication

EP 4048498 A1 20220831 (EN)

Application

EP 20880233 A 20201022

Priority

- US 201962924534 P 20191022
- US 2020056766 W 20201022

Abstract (en)

[origin: WO2021081154A1] A method of producing a reinforced polymer composite includes placing reinforcement solids a die defining a die cavity. A liquid reaction mixture including an aromatic polyisocyanate and initiating reaction of said aromatic polyisocyanate is infused with a catalyst composition forming an aromatic isocaynurate based polymer reaction mixture impregnates the reiforcing solids with using the cavity for forming the aromatic isocaynurate based polymer reaction mixture. The cavity defined by the die is heated to at least 80° C for a period required to form a polymer reaction product producing the reinforced polymer composite.

IPC 8 full level

B29C 45/00 (2006.01); **B29C 48/00** (2019.01); **B29C 48/18** (2019.01)

CPC (source: EP)

C08F 8/00 (2013.01); **C08G 18/003** (2013.01); **C08G 18/022** (2013.01); **C08G 18/161** (2013.01); **C08G 18/1816** (2013.01); **C08G 18/185** (2013.01); **C08G 18/2027** (2013.01); **C08G 18/725** (2013.01); **C08G 18/798** (2013.01); **C08J 5/043** (2013.01); **C08J 2375/04** (2013.01); **C08J 2463/00** (2013.01); **C08L 2205/16** (2013.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2021081154 A1 20210429; EP 4048498 A1 20220831; EP 4048498 A4 20231206; MX 2022004946 A 20220713

DOCDB simple family (application)

US 2020056766 W 20201022; EP 20880233 A 20201022; MX 2022004946 A 20201022