

Title (en)

SPREADING DEVICE FOR SPREADING OUT FIBRE FILAMENT BUNDLES, AND CORRESPONDING DEVICE TO MANUFACTURE PREFORMS

Title (de)

SPREIZVORRICHTUNG ZUM AUFSPREIZEN VON FASERFILAMENTBÜNDELN SOWIE DAMIT VERSEHENE PREFORM-HERSTELLVORRICHTUNG

Title (fr)

DISPOSITIF D'ECARTEMENT SERVANT A ECARTER DES FAISCEAUX DE FILAMENTS DE FIBRES, ET DISPOSITIF CORRESPONDANT DE FABRICATION DE PRÉFORMES

Publication

EP 2140052 B1 20131211 (DE)

Application

EP 08717708 A 20080312

Priority

- EP 2008052963 W 20080312
- DE 102007012607 A 20070313

Abstract (en)

[origin: CA2680457A1] The invention relates to a spreading device (20) and a spreading method for spreading out fibre filament bundles (32) to form a flat fibre band (14). Problems relating to the material quality of fibre filament bundles (32) to be spread out are solved by repeatedly exposing the fibre filament bundle (32) to at least one convex spreading edge (80).

IPC 8 full level

D04H 3/002 (2012.01); **D02J 1/18** (2006.01); **D04H 3/04** (2012.01); **D04H 3/12** (2006.01)

CPC (source: EP US)

D02J 1/18 (2013.01 - EP US); **D04H 3/002** (2013.01 - EP US); **D04H 3/04** (2013.01 - EP US); **D04H 3/12** (2013.01 - EP US)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

DE 102007012607 A1 20080918; **DE 102007012607 B4 20090226**; CA 2680457 A1 20080918; CA 2680457 C 20130813; CN 101680136 A 20100324; CN 101680136 B 20110914; DK 2140052 T3 20140127; EP 2140052 A1 20100106; EP 2140052 B1 20131211; ES 2451016 T3 20140326; US 2010107384 A1 20100506; US 8191215 B2 20120605; WO 2008110582 A1 20080918

DOCDB simple family (application)

DE 102007012607 A 20070313; CA 2680457 A 20080312; CN 200880015833 A 20080312; DK 08717708 T 20080312; EP 08717708 A 20080312; EP 2008052963 W 20080312; ES 08717708 T 20080312; US 53084708 A 20080312