

Title (en)

MIXING APPARATUS FOR CONTINUOUSLY PRODUCING A FIBRE-MATRIX MIXTURE

Title (de)

MISCHVORRICHTUNG ZUR KONTINUIERLICHEN HERSTELLUNG EINES FASER-MATRIX-GEMISCHES

Title (fr)

DISPOSITIF DE MÉLANGE POUR LA FABRICATION CONTINUE D'UN MÉLANGE FIBRES/MATRICE

Publication

EP 2585284 A2 20130501 (DE)

Application

EP 11735399 A 20110621

Priority

- DE 102010030351 A 20100622
- EP 2011060277 W 20110621

Abstract (en)

[origin: WO2011161074A2] A mixing apparatus (1) for continuously producing a fibre-matrix mixture (2) has two mixing units (4, 5) arranged so as to lie opposite one another on a base frame (3). Each of the mixing units (4, 5) has at least two rotatable deflecting rollers (17 to 19, 20 to 22) around which belts (23, 24) are guided. The belts (23, 24) delimit a mixing clearance (6) for the fibre-matrix mixture (2). At least one supporting element (49, 50) for supporting the respective belt (23, 24) along the mixing clearance (6) is arranged between the deflecting rollers (17, 18, 20, 21). A sufficiently high pressure for blending and impregnating the constituents of the fibre-matrix mixture (2) is thereby generated in the mixing clearance (6). To strip off the fibre-matrix mixture (2) from the belts (23, 24), provision is made of a discharge unit (11), which has two discharge elements (59, 60) that are associated with the belts (23, 24) and have associated stripping-off edges. The mixing apparatus (1) can produce a mixture strand (13) which can be further processed directly as an SMC semifinished product.

IPC 8 full level

B29C 70/50 (2006.01)

CPC (source: EP)

B01F 33/27 (2022.01); **B29B 7/568** (2013.01); **B29B 7/90** (2013.01); **B29C 70/504** (2013.01); **B30B 5/067** (2013.01)

Citation (search report)

See references of WO 2011161074A2

Citation (examination)

- US 4325686 A 19820420 - LEON GONZALO S, et al
- DE 3639061 A1 19880519 - HELD KURT [DE]

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

DOCDB simple family (publication)

DE 102010030351 A1 20111222; EP 2585284 A2 20130501; WO 2011161074 A2 20111229; WO 2011161074 A3 20120315

DOCDB simple family (application)

DE 102010030351 A 20100622; EP 11735399 A 20110621; EP 2011060277 W 20110621