

Title (en)
CASTING DEVICE FOR APPLYING A FOAMING REACTION MIXTURE

Title (de)
GIESSVORRICHTUNG ZUM AUFTRAGEN EINES AUFSCHÄUMENDEN REAKTIONSGEMISCHES

Title (fr)
DISPOSITIF DE COULAGE POUR APPLIQUER UN MÉLANGE RÉACTIONNEL MOUSSANT

Publication
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Application
EP 16750733 A 20160803

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• EP 2016068574 W 20160803

Abstract (en)
[origin: WO2017021463A1] The invention relates to a casting device (100) for applying a foaming reaction mixture (10), at least comprising polyol and isocyanate, to at least a partial width of a cover layer (11), in particular for producing a compound element (1), wherein the casting device (100) comprises: a supply connection (12) for feeding in the reaction mixture (10); at least one exit slit (13) extending in a transverse direction (Q) for the exiting of the reaction mixture (10); two slit plates (14) arranged opposite one another, wherein a slit space (15) extends between the slit plates (14) in a vertical direction (H) above the exit slit (13). According to the invention, a supply channel (16) connected to the supply connection (12) is formed between the slit plates (14), which closes off the slit space (15) above the exit slit (13) in the vertical direction (H), wherein the supply channel (16) has a channel cross-section (17), the main dimension of which is larger than the width (B) of the slit space (15), such that the reaction mixture can be introduced into the slit space (15) in such a way that it is distributed over the length of the supply channel (16).

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Citation (examination)
• WANLI HAN ET AL: "Optimal geometry design of the coat-hanger die with uniform outlet velocity and minimal residence time", JOURNAL OF APPLIED POLYMER SCIENCE, vol. 123, no. 4, 15 February 2012 (2012-02-15), US, pages 2511 - 2516, XP055703334, ISSN: 0021-8995, DOI: 10.1002/app.34827
• KAI MENG ET AL: "Optimal design of the coat-hanger die used for producing melt-blown fabrics by finite element method and evolution strategies", POLYMER ENGINEERING AND SCIENCE., vol. 49, no. 2, 1 February 2009 (2009-02-01), US, pages 354 - 358, XP055703336, ISSN: 0032-3888, DOI: 10.1002/pen.21281
• See also references of WO 2017021463A1

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