

Title (en)

MELT-RECEIVING DEVICE AND MELT-RECEIVING METHOD FOR FORMING POLYMER PREFORMS

Title (de)

SCHMELZE-AUFNAHMEVORRICHTUNG UND SCHMELZE-AUFNAHMEVERFAHREN ZUR BILDUNG VON KUNSTSTOFF-VORFORMLINGEN

Title (fr)

DISPOSITIF DE RÉCEPTION DE MATIÈRE EN FUSION ET PROCÉDÉ DE RÉCEPTION DE MATIÈRE EN FUSION POUR FORMER DES PRÉFORMES EN MATIÈRE PLASTIQUE

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Application

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Abstract (en)

[origin: WO2021074336A1] The invention relates to a melt-receiving device for an extrusion device (1). The melt-receiving device (2) has a hollow guide (13), in the cavity (14) of which a melt passage (SP) is formed. Arranged in the cavity (14) is an agitator (15), which tapers in the direction of flow (FR) of the polymer melt. The melt passage (SP) has on the input side of the receiving device, between the guide (13) and the agitator (15), a cross section (Q1) in the form of an annular gap and has on the output side of the receiving device a full-area cross section (Q2). The agitator (15) has a tip (17) arranged eccentrically in relation to the axis of rotation (16). The agitator (15) also has in the direction of flow (FR) a first portion (98, 98'), which has the form of a truncated cone or truncated prism, and a second portion (99, 99'), which has the form of a pointed cone or a pointed pyramid, wherein the tip of the cone or the tip of the pyramid is the tip (17) of the agitator (15, 15'). As an alternative or in addition, the inner contour of the hollow guide (13) has in the direction of flow (FR) firstly a further cylindrical portion (102), in which a first part of the agitator (15) is arranged, and following that a funnel portion, in which at least one further part of the agitator (15) is arranged.

IPC 8 full level

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