

Title (en)
MELT CONDUCTOR FOR AN EXTRUSION TOOL OF AN EXTRUSION SYSTEM, EXTRUSION TOOL, EXTRUSION SYSTEM AND METHOD FOR OPERATING AN EXTRUSION SYSTEM OF THIS TYPE

Title (de)
SCHMELZELEITER FÜR EIN EXTRUSIONSWERKZEUG EINER EXTRUSIONSANLAGE, EXTRUSIONSWERKZEUG, EXTRUSIONSANLAGE UND VERFAHREN ZUM BETREIBEN EINER SOLCHEN EXTRUSIONSANLAGE

Title (fr)
CONDUCTEUR DE FUSION POUR UN OUTIL D'EXTRUSION D'UN SYSTÈME D'EXTRUSION, OUTIL D'EXTRUSION, SYSTÈME D'EXTRUSION ET PROCÉDÉ DE FONCTIONNEMENT D'UN TEL SYSTÈME D'EXTRUSION

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Abstract (en)
[origin: WO2021073695A1] The invention relates to a melt conveyor (1), in particular a melt distributor or melt mixer, for an extrusion tool (2) of an extrusion system (3), comprising a melt conveyor block (4) having a multi-channel system (5), wherein the multi-channel system (5) is arranged such that it extends three-dimensionally within the melt conveyor block (4) and has at least one inlet (6) and at least one outlet (7) for polymer melt, wherein multiple branches (8) arranged after one another and multiple generations (9a) of additional branches (10) are formed over multiple generations (12a, 12b) of distributed melt channels (11a, 11b) between an inlet (6) and an outlet (7) fluidically connected to the inlet (6), wherein m melt channels (11a) of the a-th generation (12a) having x-th local cross-sections are provided and n melt channels (11b) of the b-th generation (12b) having y-th local cross-sections are provided, wherein $n > m$, if $b > a$, wherein the y-th local cross-sections of the melt channels (11b) of the b-th generation (12b) are smaller than the x-th local cross-sections of the melt channels (11a) of the a-th generation (12a). The invention also relates to an extrusion tool, an extrusion system and a method for operating the extrusion system.

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