

Title (en)

DEVICE AND METHOD FOR PRODUCING NON-POROUS PROFILES FROM SEPARATION RESIDUES BY MEANS OF EXTRUSION

Title (de)

VORRICHTUNG UND VERFAHREN ZUR HERSTELLUNG VON PORENFREIEN PROFILEN AUS TRENNRESTEN MITTELS STRANGPRESSEN

Title (fr)

DISPOSITIF ET PROCÉDÉ DE FABRICATION DE PROFILÉS SANS PORES À PARTIR DE RESTES DE MATIÈRE ENLEVÉE AU MOYEN D'EXTRUDEUSES

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Application

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Abstract (en)

[origin: WO2013113299A1] The invention relates to a device and a method for producing non-porous profiles from separation residues by means of extrusion, having an extrusion press (1) with a compression chamber (11) comprising an extrusion stamp (5), an extrusion die (6) and a vacuum chamber, into which aggregate material (2) consisting of separation residues from separating production processes or the like, such as swarf or residual materials, is poured. A covering element (3), which seals the compression chamber (11) on the extrusion die side, is arranged between extrusion die (6) and compression chamber (11), against which covering element (3) the extrusion stamp (5) compresses the aggregate material (2) made of separation residues into a blank (2), and during the process, fluid inclusions remaining in the compression chamber (11) and in the aggregate material (2) are removed and discharged, through for example a conically bulging extrusion stamp, radially to the outside in a targeted manner, whereupon the covering element (3) can be removed again and the compressed blank (2) can be extruded through the extrusion die (6) as a profile cross section. The aggregate material (2) is increasingly compressed by the extrusion stamp (5), applying heat if necessary, and the blank (2) is then held for a predeterminable period of time at consistent hydrostatic pressure, whereby fluid inclusions remaining in the aggregate material (2) and/or blank (2) are expelled almost completely in a targeted manner.

IPC 8 full level

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