

Title (en)

METHOD FOR THE PRODUCTION OF CERAMIC CATALYTIC MEMBRANE REACTORS BY CO-EXTRUSION

Title (de)

VERFAHREN ZUR HERSTELLUNG VON REAKTOREN MIT KERAMISCHER KATALYTISCHER MEMBRAN DURCH CO-EXTRUSION

Title (fr)

PROCEDE D'ELABORATION DE REACTEURS MEMBRANAIRES CATALYTIQUES CERAMIQUES PAR CO-EXTRUSION

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Application

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Abstract (en)

[origin: WO2005113209A1] The invention relates to the preparation of a supported tubular ceramic membrane consisting of two layers which are coaxial according to an axis (x), a first support material layer (S) and a second active material layer (M), characterized in that it comprises the following successive stages: - a stage (a) in which a paste is formed coaxially from the support material (S) with simultaneous co-extrusion, having a speed V_s at which it flows along the axis (x) and wherein a paste (PM) is formed from the active material (M), having a speed V_M at which it flows along the axis (x) wherein $V_s = V_M$; - a stage (b) wherein the co-extrudate formed in stage (a) is dried; - a stage (c) wherein the co-extrudate dried in stage (b) is debound, and a co-sintering stage (d) involving thermal treatment of the two coaxial layers of the product obtained in stage (c). The invention also relates to a device for carrying out stage (a).

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