Title (en)

METHOD FOR PRODUCING A MULTI-CAPILLARY LINING

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER MULTIKAPILLARAUSKLEIDUNG

Title (fr)

PROCÉDÉ DE FABRICATION D'UN GARNISSAGE MULTICAPILLAIRE

Publication

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Application

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Abstract (en)

[origin: WO2023281209A1] The invention relates to a method for producing a multi-capillary lining comprising a plurality of channels suitable for convection of a fluid between an inlet face and an outlet face of said lining, said method comprising the steps of: - providing at least one preform (1) suitable for forming, after ablation, a capillary channel (3) of the lining; - assembling said preforms into a bundle; - coating each preform (1) with a plurality of porous layers (2) by depositing alternating layers of a polyelectrolyte and nanoparticles or colloidal nanoparticles or by depositing alternating layers of said nanoparticles and a polymer glue; - bonding the coated preforms to form a porous monolith; and - ablating the preforms to form the channels in said porous monolith.

IPC 8 full level

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