

Title (en)
METHOD FOR PRODUCING CARBON FIBRES FROM BIOSOURCED PRECURSORS AND CARBON FIBRES PRODUCED

Title (de)
VERFAHREN ZUR HERSTELLUNG VON KOHLENSTOFFFASERN AUS VORLÄUFERN BIOLOGISCHEN URSPRUNGS UND HERGESTELLTE KOHLENSTOFFFASERN

Title (fr)
PROCEDE DE FABRICATION DE FIBRES DE CARBONE A PARTIR DE PRECURSEURS BIOSOURCES ET FIBRES DE CARBONE OBTENUES

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Application
EP 17794394 A 20171026

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Abstract (en)
[origin: WO2018078288A1] The invention relates to a method (1) for producing a high-carbon fibre or group of fibres (2), characterised in that it comprises the combination (100) of a structured precursor (10) comprising a fibre or a group of fibres of hydrocellulose, and a non-structured precursor (15), comprising lignin or a lignin derivative, in the form of a solution having a viscosity of less than 15 000 MPa.s-1 at the temperature at which the combination step (100) is carried out, in such a way as to produce a fibre or a group of fibres of hydrocellulose covered with said lignin or lignin derivative (20), said method also comprising the following steps: a step of thermal and dimensional stabilisation (200) of the fibre or the group of fibres of hydrocellulose covered with said lignin (20) in such a way as to produce a fibre or a group of fibres of hydrocellulose covered with a lignin or lignin derivative deposit (30), and a step of carbonisation (300) of the fibre or the group of fibres of hydrocellulose covered with a lignin deposit (30) in such a way as to produce a high-carbon fibre or group of fibres (2).

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