

Title (en)
Process for the production of elementary vegetable bast fibres

Title (de)
Verfahren zur Herstellung von Bastfasern

Title (fr)
Procédé pour la fabrication de fibres libériennes

Publication
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Application
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Abstract (en)
A process for the production of elementary vegetable bast fibres is provided, which process comprises the steps of a) cutting raw vegetable bast fibres to a fibre length of 8 to 400 mm, b) chemically treating the cut fibres to remove lignin and pectin compounds, c) drying the fibres obtained in step b), d) mechanically opening the dried fibres using a mechanical opening device. The process allows the production of elementary, largely cellulosic vegetable bast fibres having the following chemical properties: a lignin content of 0 to 5%, a uronic acid content of 0 to 2.5%, a rhamnose content of 0 to 0.5%, based on the oven-dry weight of the fibres, and the following physical properties: a single elementary fibre tensile strength of 100 to 600 MPa and an elasticity modulus of 35 to 100 GPa.

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IPC 8 full level
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