

Title (en)

METHOD FOR REFINING PLANT FIBRES BY STEAM EXPLOSION

Title (de)

VERFAHREN ZUM RAFFINIEREN VON PFLANZENFASERN DURCH DAMPFEXPLOSION

Title (fr)

PROCEDE D'AFFINAGE DE FIBRES VEGETALES PAR EXPLOSION DE VAPEUR

Publication

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Application

EP 18836284 A 20181218

Priority

- FR 1762418 A 20171219
- FR 2018053381 W 20181218

Abstract (en)

[origin: CA3086378A1] The invention relates to an industrial system for refining plant fibres by steam explosion, comprising: - a pre-chamber (42), - a loader for loading the pre-chamber (42) with sheaves (24) of a fibrous plant, - a spark gap (44) arranged under the pre-chamber (42), - a valve (41) upstream of the pre-chamber (42), - a valve (43) separating the pre-chamber (42) from the spark gap (44) when in the closed state and opening a passage with a diameter of at least the smallest of the diameters of the pre-chamber (42) and the spark gap (44) when in the open state; - a washing system (46) arranged inside the spark gap (44) for washing the spark gap and dragging the fibres downwards; - a mobile basket (48) for receiving fibres with a position under the spark gap (44) for receiving fibres; - a liquid-recovery device (49), arranged under the basket (48) and under the spark gap (44), - a receiving chamber receiving the basket (48) loaded with fibres; and - a drying chamber.

IPC 8 full level

D01B 1/14 (2006.01); **D21B 1/36** (2006.01)

CPC (source: EP US)

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Citation (search report)

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Cited by

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FR 3075226 A1 20190621; **FR 3075226 B1 20191122**; CA 3086378 A1 20190627; CN 111801447 A 20201020; CN 111801447 B 20221028; EP 3724379 A1 20201021; EP 3724379 B1 20230607; EP 3724379 C0 20230607; ES 2955332 T3 20231130; US 11111604 B2 20210907; US 2020347548 A1 20201105; WO 2019122694 A1 20190627

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