

Title (en)

PROCESS AND APPARATUS FOR PRODUCING BLEACHED CELLULOSE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON GEBLEICHTEM ZELLSTOFF

Title (fr)

PROCÉDÉ ET APPAREIL DE PRODUCTION DE CELLULOSE BLANCHIE

Publication

**EP 4139520 A1 20230301 (DE)**

Application

**EP 21713380 A 20210317**

Priority

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- EP 2021056877 W 20210317

Abstract (en)

[origin: WO2021213740A1] In a process/an apparatus for producing bleached cellulose in which a lignin- and cellulose-containing suspension is subjected to at least one process step for oxygen-assisted bleaching in a reactor, such as alkaline oxygen delignification, oxygen-enhanced extraction or oxygen-enhanced peroxide bleaching, it is proposed according to the invention that the oxygen required for the oxygen-assisted bleaching is supplied to the reactor at least partially in the form of oxygen-containing nanobubbles. The small size and high stability of the nanobubbles allow uniform distribution of the oxygen in the suspension and a comparatively long exposure time. The efficiency of the bleaching is thus substantially increased.

IPC 8 full level

**D21C 9/147** (2006.01); **D21C 9/10** (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2021213740A1

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