

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

- DE 102020002445 A 20200423
- 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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