

Title (en)

Process for the addition of a reducing bleaching agent to a high consistency paper fibrous material

Title (de)

Verfahren zur Zugabe von reduzierendem Bleichmittel zu einem hochkonsistenten Papierfaserstoff

Title (fr)

Procédé pour l'addition d'un agent de blanchiment réducteur à une pâte à papier

Publication

EP 0778370 A1 19970611 (DE)

Application

EP 96116115 A 19961009

Priority

DE 19545852 A 19951208

Abstract (en)

A process to add reducing bleach substance (B) to highly consolidated paper pulp (S1, S2, S3) uses a dispersion machine with a processing region (3) for both pulp compression and mixing the bleaching substance with the pulp where the material is added at several points in the processing region. Preferably the temperature of the highly consolidated pulp is at or above 80 degrees C, the specific work applied to the pulp in the machine is at least 30 KWh per tonne and the pulp is compressed in the processing region to such a degree that free air content is less than 1% by weight of the moist pulp. Pulp compression is not continuous, the processing region being divided into an initial adjustable high compression zone and a following zone where the compression is less or zero and into which the bleaching substance is introduced. At the end of the high compression zone are variable open cross-sections through which the highly consolidated pulp passes and in the connecting zone the temperature is at or over 100 degrees C, the pressure at or over 1 bar. Flow at the end of the processing region is altered by an adjustable constriction.

Abstract (de)

Das erfindungsgemäße Verfahren dient der Zumischung von reduzierenden Bleichchemikalien (B) bei Verwendung einer Dispergiermaschine. Erfindungsgemäß werden die Chemikalien nicht vor der Dispergiermaschine oder beim Eintritt des Papierfaserstoffs (S1, S2, S3) in die Dispergiermaschine zugeführt, sondern über Bleichmittelzugabevorrichtungen (4, 4'), die innerhalb der Dispergiermaschine münden, und zwar dort, wo eine wesentliche Kompression des Faserstoffs bereits erfolgt ist. Dadurch wird der chemische Angriff des Luft-Sauerstoffs auf die Bleichchemikalien weitestgehend verhindert. <IMAGE>

IPC 1-7

D21C 9/10; B01F 7/00

IPC 8 full level

D21C 9/10 (2006.01); B01F 23/57 (2022.01)

CPC (source: EP US)

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Citation (search report)

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