

Title (en)

Process for treating a paper pulp with an enzymatic solution.

Title (de)

Verfahren zur Behandlung einer Papierpulpe mit einer enzymatischen Lösung.

Title (fr)

Procédé de traitement d'une pâte papetière par une solution enzymatique.

Publication

EP 0262040 A1 19880330 (FR)

Application

EP 87402097 A 19870921

Priority

FR 8613208 A 19860922

Abstract (en)

According to the process, an enzyme preparation containing cellulases and/or hemicellulases is reacted with a homogeneous aqueous suspension of the papermaking pulp exhibiting a Schopper-Riegler (SR) value determined in accordance with NFQ standard 50 003 of at least 25. <??>Application of the process for the treatment of a papermaking pulp based on recycled fibres.

Abstract (fr)

L'invention concerne un procédé pour le traitement d'une pâte papetière par une préparation enzymatique. Selon le procédé, on fait agir sur une suspension aqueuse homogène de la pâte papetière présentant un degré Schopper-Riegler (SR) déterminé conformément à la norme NFQ 50 003, au moins égal à 25, une préparation enzymatique contenant des cellulases et/ou des hémicellulases. Application du procédé pour le traitement d'une pâte papetière à base de fibres recyclées.

IPC 1-7

D21C 9/00

IPC 8 full level

C12S 3/08 (2006.01); **D21C 5/00** (2006.01); **D21C 5/02** (2006.01); **D21C 9/00** (2006.01); **D21H 21/10** (2006.01); **D21H 23/18** (2006.01)

CPC (source: EP US)

D21C 5/005 (2013.01 - EP US)

Citation (search report)

- [X] US 3406089 A 19681015 - YERKES JR WILLIAM D
- [A] GB 1495029 A 19771214 - MUMFORD C
- [A] US 3041246 A 19620626 - WALTER BOLASKI, et al
- [AD] FR 2557894 A1 19850712 - CENTRE TECH IND PAPIER [FR]
- [A] US 3972775 A 19760803 - WILKE CHARLES R, et al
- [A] FR 767627 A 19340720
- [A] TAPPI, vol. 65, no. 6, juin 1982, pages 93-96; Atlanta, Georgia, US; L. PILON et al.: "Increasing water retention of mechanical pulp by biological treatments"
- [A] ABSTRACT BULLETIN, vol.57, no. 1, juillet 1986, page 177, abrégé no. 1503, Appleton, Wisconsin, US; & JP-A-60 126 395 (HONSHU PAPER Mfg. CO. LTD) 05-07-1985

Cited by

US5871730A; US5935836A; FR2641803A1; US5487812A; EP0334739A1; FR2629108A1; US5709796A; US5326477A; EP0421843A1; FR2652595A1; US5434071A; EP0435061A3; US5103883A; US5837515A; GB2296513A; GB2296513B; EP0671507A3; GB2231595A; GB2231595B; US5785809A; EP0696663A1; EP0451031A1; FR2660674A1; US5298405A; WO2012042146A1; US7816129B2; WO9110724A1; WO9114822A1; US6300114B1; US6506593B2; EP0583310B1; EP0576470B1

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0262040 A1 19880330; EP 0262040 B1 19921111; AT E82339 T1 19921115; CA 1340724 C 19990907; DE 3782602 D1 19921217; DE 3782602 T2 19930603; ES 2043679 T3 19940101; FI 87242 B 19920831; FI 87242 C 19921210; FI 874113 A0 19870921; FI 874113 A 19880323; FR 2604198 A1 19880325; FR 2604198 B1 19890707; GR 3007008 T3 19930730; JP H07107234 B2 19951115; JP S63145495 A 19880617; NO 172858 B 19930607; NO 172858 C 19930915; NO 873565 D0 19870824; NO 873565 L 19880323; SU 1701117 A3 19911223; US 4923565 A 19900508; US 5308449 A 19940503

DOCDB simple family (application)

EP 87402097 A 19870921; AT 87402097 T 19870921; CA 547439 A 19870921; DE 3782602 T 19870921; ES 87402097 T 19870921; FI 874113 A 19870921; FR 8613208 A 19860922; GR 930400248 T 19930210; JP 23503787 A 19870921; NO 873565 A 19870824; SU 4203419 A 19870921; US 91587992 A 19920720; US 9978687 A 19870922