

Title (en)

METHOD FOR IMPROVED PULPING USING AN ENVIRONMENTALLY FRIENDLY PULPING AID

Title (de)

VERFAHREN ZUR VERBESSERTEN AUFLÖSUNG UNTER VERWENDUNG EINES UMWELTFREUNDLICHEN AUFLÖSEHILFSMITTELS

Title (fr)

PROCÉDÉ POUR AMÉLIORER LE DÉPULPAGE AU MOYEN D'UN ADJUVANT DE DÉPULPAGE RESPECTUEUX DE L'ENVIRONNEMENT

Publication

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Application

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Priority

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Abstract (en)

A safe and environmentally friendly pulping aid comprising a mixture of natural terpene-based chemicals and a dispersant blend. The pulping aid is used in the pulping of lignocellulosic biomass to simultaneously increase screened pulp yield and reduce the extractives content of pulp. The flash point of the pulping aid is at least 49° C.

IPC 8 full level

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Citation (applicant)

- US 5176796 A 19930105 - IRIE YUKO [JP], et al
- US 201414450298 A 20140804
- US 201515129524 A 20150413
- US 4012280 A 19770315 - HOLTON HARRY HUTCHINSON
- US 4673460 A 19870616 - RAFF DONALD K [US]
- US 2144756 A 19390124 - FRITZ JAMES H
- US 5720825 A 19980224 - KINNAIRD MICHAEL GATES [US]
- US 5863385 A 19990126 - SIEBOTT FRANK [DE], et al
- US 6890405 B1 20050510 - MAH THOMAS C C [CA]
- US 8025762 B2 20110927 - RAVASKA MATTI [FI]
- SMOOK, GARY A.: "Handbook for Pulp & Paper Technologists, 3rd ed.", 2002, ANGUS WILDE PUBLICATIONS, pages: 67 - 84
- SMOOK, GARY A.: "Handbook for Pulp & Paper Technologists, 3rd ed.", 2002, ANGUS WILDE PUBLICATIONS, pages: 164 - 181
- BROGDON, BRIAN N.; JOHN ADIWINATA: "TAPPI 2011 PEERS Conference", October 2011, TAPPI PRESS, article "A Review of Deresinators as Digester Additives for Kraft Pulping", pages: 935 - 961
- SPENCE, GAVIN G.: "TAPPI 1997 Pulping Conference Proceedings", 1997, TAPPI PRESS, article "Defoamers for Brown Stock Washers"
- HART, PETER W.; ALAN W. RUDIE: "Anthraquinone-A Review of the Rise and Fall of a Pulping Catalyst", TAPPI JOURNAL, vol. 13, no. 10, 2014, pages 23 - 31
- BORCHARDT, J.K.; CANO, M.L.; TORTORICI, P.L.; WALLACE, J.C.; KRAVETZ, L.; GUIN, K.F.; DUBEY, S.T.: "1998 Environmental Conference Proceedings", 1998, TAPPI PRESS, article "Environmental Aspects of Alcohol Ethoxylates in Pulp and Paper Mills. Part 1 Surfactant Chemical Structure Effects"

Citation (search report)

- [XD] US 5720825 A 19980224 - KINNAIRD MICHAEL GATES [US]
- [XI] DE 3316988 A1 19841115 - ROHRMOSER JUERGEN
- [X] US 5679628 A 19971021 - SIMPSON ERNEL O [US], et al
- [X] WO 9928428 A1 19990610 - RECKITT & COLMAN INC [US], et al
- [X] US 5139616 A 19920818 - LING TIEN-FENG [US]
- [AD] US 4673460 A 19870616 - RAFF DONALD K [US]

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