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(54) Chlorine-free organosolv pulps

(57) This invention provides for a batch and continuous process with countercurrent recycle of bleaching filtrates for the delignification and bleaching of organosolv pulp. Oxygen delignification of organosolv pulp is achieved in excess of from about 50% to about 76% as measured by kappa numbers, while the pulp viscosity is minimally decreased in the range of from about 2 to about 5 cps. Bleaching of delignified pulp is achieved with peroxy compounds and ozone and pulp brightness of from about 82 to 88 ISO can be achieved with pulp containing zero level TOX from chlorine based bleaching chemicals and zero level of AOX in the bleach effluents. Higher brightness of from about 90 to about 92 ISO can also be achieved by addition of very low levels of chlorine based bleaching chemicals. Corresponding bleach effluents contain less than 200 ppm AOX. Bleaching filtrates can be recycled for pulp washing and for use with an organosolv pulping process which results in significant energy savings and mitigation if not elimination of pollution typically associated with chlorine based bleaching. This invention also relates to bleach pulp product derived from the process.

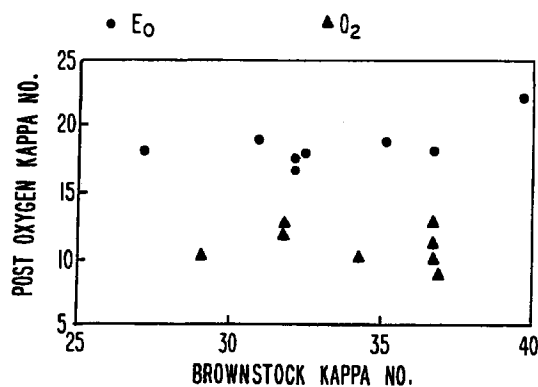


Fig. 1

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EUROPEAN SEARCH REPORT

Application Number
EP 95 11 8395

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	EP-A-0 480 469 (REPAP TECHNOLOGIES INC) 15 April 1992 * the whole document *	1-28,40	D21C9/10 D21C9/147 D21C9/153 D21C9/16
Y	---	29-39	
Y	DATABASE PAPERCHEM THE INSTITUTE OF PAPER SCIENCE AND TECHNOLOGY, ATLANTA, GA, US AN 64-07610, YOUNG, J.: "Louisiana-Pacific's Samoa Mill Establishes TCF Pulp Production" XP002014022 * abstract *	29-39	
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	& PAPEL 54, NO. 4: 26-36 (APRIL 1993). [PORT.;ENGL. SUM.], -----		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 23 September 1996	Examiner Bernardo Noriega, F
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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