

Title (en)

Wash press modification for oxygen delignification process.

Title (de)

Modifikation von einer Waschpresse zur Delignifizierung mittels Sauerstoff.

Title (fr)

Modification de presse de lavage pour procédé de delignification à l'oxygène.

Publication

EP 0540091 A1 19930505 (EN)

Application

EP 92203241 A 19921022

Priority

US 78418491 A 19911029

Abstract (en)

Unbleached pulp is washed with an aqueous alkaline solution in a wash press to substantially uniformly distribute a first amount of alkaline material throughout the pulp. The consistency of the pulp exiting the wash press is above about 18%, preferably between 25 to 35 percent by weight, and the high consistency alkali containing pulp is then treated with oxygen to effect delignification. The use of a wash press reduces the overall amounts of alkaline material utilized in the process compared to processes which add alkaline material to the pulp at low consistency. Additional alkali may be applied, if desired, onto the high consistency pulp prior to oxygen delignification to provide a total amount of between 0.8 and 7 percent by weight of oven dry pulp. High strength, low lignin pulps are formed after oxygen delignification which may be further bleached to high brightness with reduced amounts of bleaching chemicals.

IPC 1-7

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IPC 8 full level

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CPC (source: EP KR)

D21C 9/02 (2013.01 - EP KR); **D21C 9/10** (2013.01 - KR); **D21C 9/1005** (2013.01 - EP); **D21C 9/147** (2013.01 - EP KR)

Citation (search report)

- [AD] WO 8604938 A1 19860828 - ELTON EDWARD FRANCIS
- [AP] WO 9212288 A1 19920723 - UNION CAMP PATENT HOLDING [US]

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EP0863113A1; US6425974B1; US8632655B2; WO9839258A1; WO2011156708A1; US8961740B2; US9399835B2

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