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EUROPEAN PATENT APPLICATION

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⑯ Procedure for the bleaching of pulp.

⑯ The invention concerns a procedure for the bleaching of pulp using an oxidating bleaching chemical containing chlorine. The essential features of the invention are that the chemical used in the oxidation stage has a chlorine dioxide content of at least 50 %, that the pulp is subjected to enzyme treatment either in conjunction with or before the oxidation, and that, after the oxidation and enzyme treatment, the pulp is treated with an alkali. The use of enzymes reduces the amount of chlorophenols and other forms of organically bound chlorine in the spent bleach liquor, simultaneously lowering its chemical oxygen demand.

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EUROPEAN SEARCH REPORT

Application Number

EP 89 11 7235

| DOCUMENTS CONSIDERED TO BE RELEVANT | | | CLASSIFICATION OF THE APPLICATION (Int. Cl.5) | | | | | | |
|--|--|---|---|-----------------|----------------------------------|----------|-----------|------------|---------------------|
| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | | | | | | | |
| E | WO-A-8 908 738 (SUOMEN SOKERI OY) * The whole document * --- | 1,3-10 | D 21 C 9/10 D 21 C 9/14 | | | | | | |
| X | ABSTRACT BULLETIN OF THE INSTITUTE OF PAPER CHEMISTRY, vol. 57, no. 7, January 1987, page 992, abstract no. 8912; L. VIIKARI et al.: "Bleaching with enzymes". & INT. CONF. BIOTECHNOL. PULP AND PAPER IND. (STOCKHOLM) 3rd: 67-69 (June 16-19, 1986) * The whole document * --- | 10 | | | | | | | |
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| TECHNICAL FIELDS SEARCHED (Int. Cl.5) | | | | | | | | | |
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| <p>The present search report has been drawn up for all claims</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Place of search</td> <td style="width: 33%;">Date of completion of the search</td> <td style="width: 34%;">Examiner</td> </tr> <tr> <td>THE HAGUE</td> <td>07-09-1990</td> <td>BERNARDO NORIEGA F.</td> </tr> </table> | | | | Place of search | Date of completion of the search | Examiner | THE HAGUE | 07-09-1990 | BERNARDO NORIEGA F. |
| Place of search | Date of completion of the search | Examiner | | | | | | | |
| THE HAGUE | 07-09-1990 | 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 | | | | | | | |