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EUROPEAN PATENT APPLICATION

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(54) Paper material made from a fibrous pulp of industrial textile waste and exhausted sugarbeet pulp

(57) A paper material of excellent characteristics is produced from industrial textile waste and exhausted sugarbeet pulp, which, derived from the diffusion extraction of sucrose, is pressed to bring the dry substance to a content of 22-28%, and is stored, in the absence of chemical additives, by inducing anaerobic fermentation. Following treatment in conventional pulping facilities, or in Bi-Vis machines, or in a steam explosion facility, a paper pulp of exhausted beet pulp (2-50%) and industrial waste cellulosic textile fibers is prepared with or without papermaking additives, and the pulp is used in traditional manner to produce paper comparable with that produced using currently used chemical pulp.



EUROPEAN SEARCH REPORT

Application Number EP 96 10 7793

Category	Citation of document with indic of relevant passage			elevant claim	CLASSIFICATION OF THE APPLICATION (Int.CI.6)
Χ	DE 31 37 232 A (BRUMN BRAU) 14 April 1983 example	MER JOHANN GEORG DIPL	18		D21H11/00 A01N3/00
Α	DATABASE WPI Section Ch, Week 8802 Derwent Publications Class D13, AN 88-0126 XP002046008 & SU 1 313 407 A (MOS , 30 May 1987 * abstract *	Ltd., London, GB;	18		
Α	FR 2 668 508 A (ARJON 1992 * claims 1-5 *	MARI EUROP) 30 April	1,9 15-	9,13, -17	
Α	DATABASE WPI Section Ch, Week 9403 Derwent Publications Class A14, AN 94-0234 XP002010497 & JP 05 331 794 A (KA December 1993 * abstract *	Ltd., London, GB; 109		2,9, ,15-17	TECHNICAL FIELDS SEARCHED (Int.Cl.6) D21H A01N
Α	EP 0 644 293 A (FAVIN March 1995 * claims 1,2 *	NI CARTIERA SPA) 22	1-3 15-	3,13, -17	
A	US 4 832 791 A (DETER 23 May 1989 examples * claim 30 *	RT ERNST-ROLF ET AL)	1-3 15-	3,13, -17	
	The present search report has been				
	Place of search MUNICH	Date of completion of the search 11 November 1997		Nae	slund, P
X : parti Y : parti docu	ATEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with another ment of the same oategory nological background	T : theory or principl E : earlier patent do after the filing da D : document cited i L : document cited f	e under cument te in the ap or other	rlying the in , but publis pplication r reasons	ivention hed on, or



Application Number

EP 96 10 7793

CLAIMS INCURRING FEES
The present European patent application comprised at the time of filing more than ten claims.
Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.
LACK OF UNITY OF INVENTION
The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:
SEE SHEET B
All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



LACK OF UNITY OF INVENTION SHEET B

Application Number EP 96 10 7793

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-17

Relates to a method of producing paper material from industrial textile and agricultural waste; i.e. sugarbeet pulp, the corresponding paper and the intermediate product, the pulp.

2. Claim: 18

Relates to a method of preserving, without additives, exhausted sugarbeet pulp, including an anaerobic lactic fermentation step.