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- Procedure and equipment for differentiated juice defecation in two resin packed ion exchange columns.
- The process and the related equipment are based on two resin packed ion exchange columns (4, 10) through which the juice (S) to be defecated is flowing.

In the first column (4) the juice is partially defecated through ion exclusion thus producing molasses (M) with a satisfactory commercial value, while the defecation process is completed in the second column (10) with separation of the non-sugar residue and recovery of various sugars and non-sugars having a high market value.

Treatment on two columns reduces processing time and/or the quantity of resin necessary as compared with one column processes. Polluting waste water is thus completely eliminated.



EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT				
Category		th indication, where appropriate, evant passages	Releva to cla	
Α	FR-A-2 261 338 (G.BRAN * the whole document *	DOLI ET AL.)	1	C 13 D 3/14 C 13 J 1/06 C 13 K 3/00
Α	US-A-4 422 881 (F.DEVO * the whole document *	S ET AL.)	1	
D,A	IT-A-6 010 35 (G.ASSALINI) * the whole document *		1	
D,A	IT-A-5 607 95 (G.ASSALII * the whole document * _	 NI) 	1	
				TECHNICAL FIELDS SEARCHED (Int. CI.5) C 13 D C 13 K C 13 J
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	The present search report has	been drawn up for all claims		
Place of search Date of completio		Date of completion of s	earch	Examiner
	The Hague	14 November 9	00	VAN MOER A.M.J.
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same catagory A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention		h another	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	