

Title (en)  
New canejuice displacement process

Title (de)  
Neues Verfahren zur Verdrängung des Rohrsaftes

Title (fr)  
Nouveau procédé de déplacement de jus de cane

Publication  
**EP 0707078 B1 20040225 (EN)**

Application  
**EP 94402832 A 19941209**

Priority  
AU 7419594 A 19940926

Abstract (en)  
[origin: EP0707078A1] 1 - Industry concerned : Cane Sugar Manufacture 2 - Part of the process to which the invention pertains : Extraction of the sugar cane juice. 3 - In the prepared raw material (shredded cane) up to 94 % of the juice containing cells are open. It has a low bulk density and high void volume (filled with air> The gist of the invention is to take advantage of this specific structure to improve the efficiency of the extraction process by : Avoiding compaction to maintain high percolation rate Filling the voids with recirculated juice thus turning the solid mass of shredded cane into a free flowing mixture of cane and juice. Replacing,in three stages,the thick juice of cane by thinner juices and finally by water,in a true plug flow displacement process. Improving the efficiency the solid/liquid separation between stages by increasing hydrostatic head between the liquid mass in the extractor and the discharge tank. <IMAGE>

IPC 1-7  
**C13D 1/02; C13D 1/04**

IPC 8 full level  
**C13B 10/02** (2011.01); **C13B 10/04** (2011.01); **C13D 1/02** (2006.01); **C13D 1/04** (2006.01)

CPC (source: EP)  
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**EP 0707078 A1 19960417; EP 0707078 B1 20040225**; AU 679255 B2 19970626; AU 7419594 A 19960418; BR 9404596 A 19950801; DE 69433575 D1 20040401; DE 69433575 T2 20050331; DK 0707078 T3 20040628

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