

Title (en)

Process and apparatus for extracting sugar from chopped sugar cane

Title (de)

Verfahren und Vorrichtung zum Extrahieren von Zucker aus gehäckseltem Zuckerrohr

Title (fr)

Procédé et appareil pour l'extraction du sucre de la canne à sucre tronçonnée

Publication

EP 1002879 A1 20000524 (DE)

Application

EP 98121716 A 19981114

Priority

EP 98121716 A 19981114

Abstract (en)

Sugar extraction from cane directed in upward direction so that the fluid can pass through it by gravity. The bagasse (crushed cane) is confined between two conveyor systems (7,7a and 9) insulated on the outside, waterproofed on the inside and fitted with rows of spikes on the inside of one band. This forms a path of rectangular cross-section through which the bagasse is transported from the inlet (4) to the outlet at (5) into which fluid is passed from (19). Some of the enriched liquid, under a gravity head 'h', is withdrawn at level (21) to be heated by heat-exchanger (23) to about 90 degrees C to warm the incoming bagasse. The liquid, at about 75 degrees C, is then returned for entry at (5). The final liquor is withdrawn at (25) principally and under the perforated drive roll (13) at (28). The bagasse is finally dewatered at (27) and (17) before disposal.

Abstract (de)

Die Erfindung betrifft ein Verfahren zum Extrahieren von Zucker aus gehäckseltem Zuckerrohr und eine Vorrichtung zur Durchführung des Verfahrens. Für ein verfahrens- und vorrichtungsmäßig verbessertes Extraktionssystem wird erfindungsgemäß vorgeschlagen, den Bagassestrang durch ein in einem ansteigenden Förderkanal stehendes Imbibitionsflüssigkeitsbad hindurchzuziehen, wobei der Pegelstand dieses Flüssigkeitsbades oberhalb von am Anfang des Förderkanals vorgesehenen Entnahmestellen für Anwärmsaft und Abzugssaft liegt. <IMAGE>

IPC 1-7

C13D 1/04

IPC 8 full level

C13B 10/04 (2011.01)

CPC (source: EP)

C13B 10/04 (2013.01)

Citation (search report)

- [A] EP 0769561 A1 19970423 - RIVIERE MICHELE MARCELLE AMELI [FR]
- [A] FR 2504151 A1 19821022 - THIREL JEAN PIERRE [FR]
- [A] EP 0255555 A1 19880210 - BRAUNSCHWEIGISCHE MASCH BAU [DE]
- [A] US 3661082 A 19720509 - FRENCH ALFRED W, et al

Cited by

CN110512031A; EP2201144A4; AU2006233529B2; EA012527B1; KR101252274B1; WO2006108481A1; WO2004045813A1; WO2008106696A3; US8157917B2

Designated contracting state (EPC)

BE DE GB

DOCDB simple family (publication)

EP 1002879 A1 20000524; ZA 994414 B 20000113

DOCDB simple family (application)

EP 98121716 A 19981114; ZA 994414 A 19990707