

Title (en)  
PROCESS FOR PURIFICATION OF LOW GRADE SUGAR SYRUPS USING NANOFILTRATION

Title (de)  
VERFAHREN ZUR REINIGUNG VON MINDERWERTIGEN ZUCKERSIRUPEN MIT NANOFILTRATION

Title (fr)  
PROCEDE DE PURIFICATION DE SIROPS DE SUCRE DU PREMIER JET PAR NANOFILTRATION

Publication  
**EP 1230401 A1 20020814 (EN)**

Application  
**EP 00974685 A 20001113**

Priority  

- GB 0004321 W 20001113
- US 44198899 A 19991117
- US 61823400 A 20000718

Abstract (en)  
[origin: WO0136690A1] A nanofiltration process for obtaining sucrose uses a feed syrup, such as molasses, that comprises sucrose and no less than about 2 % by weight invert sugars (on a dry solids basis). The nanofiltration produces a permeate and retentate. The nanofiltration permeate will comprise invert sugars that have passed from the feed through the nanofiltration membrane, and preferably will also comprise ash from the feed. The nanofiltration retentate has a higher concentration of sucrose and a lower concentration of invert sugars than the feed syrup. Sucrose can then be crystallized from the nanofiltration retentate. The reduction of the invert content in the syrup facilitates crystallization and thus enhances sucrose recovery.

IPC 1-7  
**C13D 3/16**

IPC 8 full level  
**C13B 20/16** (2011.01); **C13B 30/12** (2011.01)

CPC (source: EP)  
**C13B 20/165** (2013.01); **C13B 30/12** (2013.01)

Citation (search report)  
See references of WO 0136690A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 0136690 A1 20010525**; AT E253129 T1 20031115; AU 1290201 A 20010530; BR 0015571 A 20020730; CA 2390860 A1 20010525; CA 2390860 C 20081007; DE 60006277 D1 20031204; DE 60006277 T2 20040715; DK 1230401 T3 20040301; EP 1230401 A1 20020814; EP 1230401 B1 20031029; MX PA02004621 A 20040910; PT 1230401 E 20040331

DOCDB simple family (application)  
**GB 0004321 W 20001113**; AT 00974685 T 20001113; AU 1290201 A 20001113; BR 0015571 A 20001113; CA 2390860 A 20001113; DE 60006277 T 20001113; DK 00974685 T 20001113; EP 00974685 A 20001113; MX PA02004621 A 20001113; PT 00974685 T 20001113