Title (en)

Process for batchwise preparation of big sugar crystals

Title (de)

Verfahren zur chargenweisen Herstellung von grossen Zuckerkristallen

Title (fr)

Procédé pour la production en discontinu de gros cristaux de sucre

Publication

EP 1279745 B1 20100623 (DE)

Application

EP 02015121 A 20020706

Priority

- DE 10135079 A 20010719
- DE 10142027 A 20010828

Abstract (en)

[origin: EP1279745A1] To produce large sugar crystals of ≥ 5 mm and preferably ≥ 8 mm, in batches, the crystals are developed by vapor crystallizing in a crystallizing vessel. A relative movement is generated between the developing crystals and the over-saturated sugar solution, to give the crystals a floating movement. To produce large sugar crystals of at least 5 mm and preferably at least 8 mm, in batches, they are developed by vapor crystallizing in a crystallizing vessel. A relative movement is generated between the developing crystals and the over-saturated sugar solution, to give the crystals a floating movement. The relative movement is developed by a rising flow of the sugar solution, without any mechanical action, controlled by the water content recovered from evaporation. The heating is controlled to maintain the over-saturation of the sugar solution at a constant level. The assembly also has a heated sieve base, and a separation system for newly-formed fine grains in a collection vessel which calms the flow.

IPC 8 full level

B01D 9/00 (2006.01); **C13B 25/00** (2011.01); **C13B 30/02** (2011.01); **C13B 30/12** (2011.01); **C13B 30/14** (2011.01)

CPC (source: EP)

C13B 25/00 (2013.01); **C13B 30/02** (2013.01); **C13B 30/026** (2013.01); **C13B 30/12** (2013.01); **C13B 30/14** (2013.01)

Cited by

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

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EP 02015121 A 20020706; AT 02015121 T 20020706; DE 50214497 T 20020706; DK 02015121 T 20020706; ES 02015121 T 20020706; HU P0202375 A 20020718; PL 35500702 A 20020711