Title (en)
Process for improving the extraction rate of sugar from a third massecuite by lowering the temperature at the end of the crystallisation.

Title (de)
Verfahren zur Verbesserung der Extraktionsrate von Zucker aus einem Sirup der Kochmasse C durch Verminderung der Temperatur des Endes der Kristallisation.

Title (fr)
Procédé d'amélioration du taux d'extraction de sucre d'un sirop de troisième jet, en réduisant la température de fin de cristallisation.

Publication
EP 0402190 A1 19901212 (FR)

Application
EP 90401386 A 19900523

Priority
FR 8907242 A 19890601

Abstract (en)
The process is an improvement to the so-called preturbining process where a massecuite (1) supersaturated with sugar is seeded with crystallisation nuclei, a part of the massecuite is removed at the end of desupersaturation, the sugar is extracted therefrom by centrifuging (20) and the mother liquors are sent back to a mixer (4) to be combined with the second part (41) of massecuite, before it is left to cool in a mixer (5). Hitherto, the mother liquors separated from the first part of massecuite were diluted with the sugar rinsings and thus most of the saving obtained by prolonging the mixing to a temperature of less than 50 DEG C was lost. According to the invention the mother liquors are sent to a buffer storage vessel (30), from which they are taken out again to be sent to a heat exchanger (31), and are then sprayed in a chamber (32) under partial vacuum, to be concentrated and to regain the temperature and concentration at the exit of the crystalliser (1). <IMAGE>

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C13F 1/12; C13J 1/00

IPC 8 full level
C13B 30/12 (2011.01)

CPC (source: EP)
C13B 30/12 (2013.01)

Citation (search report)
- [A] GB 2206293 A 19890105 - ERIDANIA
- [A] FR 2534595 A1 19840420 - BEGHIN SAY SA [FR]
- [A] FR 2597115 A1 19871016 - FIVES CAIL BABCOCK [FR]

Designated contracting state (EPC)
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