

Title (en)
Improved method of recovering sucrose.

Title (de)
Verfahren zur Rückgewinnung von Sukrose.

Title (fr)
Procédé de récupération du sucrose.

Publication
EP 0113592 A2 19840718 (EN)

Application
EP 83308016 A 19831229

Priority
US 45418882 A 19821229

Abstract (en)
An improved method of recovering sucrose from plant-derived aqueous solutions is provided. The method comprises contacting an aqueous sucrose-containing solution derived from plant juice, such as sugar cane or sugar beet juice, with aliphatic carboxylic acid having an average carbon chain length of about 2-6, in a concentration sufficient to selectively precipitate a substantial amount of sucrose from the solution. The precipitate is then separated and recovered and the depleted solution can be recycled. Preferably the sucrose-containing solution is concentrated to about 55-96 Brix before the contacting and the contacting is carried out by rapidly adding the sucrose-containing solution to the acid in order to assure rapid growth of large sucrose crystals for maximum sucrose recovery. The sucrose-containing solution before concentrating can be any solution obtained prior to molasses formation; e.g. untreated diffusion juice, prelimed and/or predefecated diffusion juice, purified diffusion juice or even a solution formed by reconstituting from raw recovered sugar; alternatively, it can be a solution after molasses formation, in which event the selected acid, if it includes acetic acid, only includes it in a mixture with other aliphatic carboxylic acids. It may also be waste fluid from a canning operation or the like.

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IPC 8 full level
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Cited by
DE10006462B4; US8725204B2; US6698412B2; WO0159136A1; WO02055851A1; WO03056932A3

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