

Title (en)
Process for softening a sugar containing juice such as molasses and the application thereof to a process for the recovery of the sugars contained in this juice.

Title (de)
Verfahren zur Enthartung von zuckerenthaltenden Säften wie Melasse und Verwendung desselben zu einem Verfahren zur Gewinnung der in dieser Melasse enthaltenden Zuckern.

Title (fr)
Procédé d'adoucissement d'un jus sucré tel qu'une mélasse de sucrerie et son utilisation dans un procédé de récupération des sucres contenus dans ce jus sucré.

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Abstract (en)
The invention relates to a process for softening an aqueous sugar (sugar cane) juice containing sugars and Ca²⁺ and/or Mg²⁺ ions, such as a sugar refinery molasses, by means of a cation-exchange resin, in the Na⁺ and/or K⁺ form, and for regenerating the said resin, which comprises: (a) a softening stage consisting in bringing the said sugar juice into contact with the said cation-exchange resin, in the Na⁺ and/or K⁺ form, in order to obtain, on the one hand, a softened sugar juice depleted in Ca²⁺ and/or Mg²⁺ ions and loaded with Na⁺ and/or K⁺ ions and, on the other hand, a cation-exchange resin loaded with Ca²⁺ and/or Mg²⁺ ions, and (b) a stage for regeneration of the latter resin, characterised in that the regeneration stage (b) consists in bringing the said resin into contact with a liquid effluent produced during the separation by chromatography of the sugars of a softened aqueous sugar juice containing sugars and Na⁺ and/or K⁺ ions, this liquid effluent containing the greater part of the Na⁺ and/or K⁺ ions initially present in the softened sugar juice.

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