

Title (en)

Sugar juice colour removal using monodispersed anion exchangers

Title (de)

Zuckersaftentfärbung mittels monodisperser Anionenaustauscher

Title (fr)

Décoloration de jus sucré utilisant des échangeurs d'anions monodispersés

Publication

EP 1205560 B1 20050921 (DE)

Application

EP 01125399 A 20011031

Priority

DE 10056193 A 20001113

Abstract (en)

[origin: EP1205560A2] Use of a mono-dispersal ion-exchanger, preferably an anionic-exchanger, to render sugar juice colorless, is new. Use of a mono-dispersal ion-exchanger, preferably an anionic-exchanger, to render sugar juice colorless. A mono-dispersal ion-exchange agent is operated as a micro-porous or gel-like or macro-porous pearl polymer. The mono-dispersal anion-exchanger is functionalized by primary or tertiary amino-groups, or quarter amino-groups or a mixture. The mono-dispersal anion exchanger consists of a networked polymer of simple ethyl unsaturated monomers. An Independent claim is also included for a process to render sugar juice colorless by using a mono-dispersal anion-exchange which is flushed into a heated glass filter tube at between 20 and 100 degrees C. The colored aqueous sugar solution is allowed to flow over the adsorbent resin bed from top to bottom or vice versa and rains from the bed with fully desalinated water, followed by regeneration of the resin.

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