

Title (en)
PROCESS OF REDUCING FOULING DURING HEAT PROCESSING OF FOODS AND BEVERAGES

Title (de)
VERFAHREN ZUR VERMINDERUNG VON VERSCHMUTZUNG BEI DER WÄRMEBEHANDLUNG VON NAHRUNGSMITTELN UND GETRÄNKEN

Title (fr)
PROCEDE PERMETTANT DE REDUIRE LES SALISSURES PENDANT LE TRAITEMENT THERMIQUE DE DENREES ALIMENTAIRES ET DE BOISSONS

Publication
EP 1863357 A1 20071212 (EN)

Application
EP 06738700 A 20060316

Priority

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- US 66270405 P 20050317

Abstract (en)
[origin: WO2006102051A1] A pasteurization or sterilization process reduces fouling of a food or beverage composition containing protein during the heat treatment. An antifouling agent is added to the food or beverage composition that is selected from hydroxypropylcellulose (HPC) with a hydroxypropyl molar substitution of greater than 3.0 and a weight average molecular weight (Mw) as measured by SEC of greater than 350,000 Dalton, methylhydroxypropylcellulose (MHPC) with a methoxyl content of greater than 17 % and a hydroxypropyl content of greater than 3 %, methylcellulose (MC) with a methoxyl content greater than 17 % and a viscosity in water at ambient temperatures and a concentration of 2 % of greater than 1,000 cps, or mixtures thereof, This food or beverage composition is then heated in a first heat exchanger at a temperature between 50 and 100° C for a time of from about 2 seconds to 30 minutes for pasteurization or it is further heated to sterilization temperatures before being packaged out or further processed. The improvements of this process is that the heat exchangers are fouled at least 10 % by weight less or run-time increased at least 10 % as compared to when heat-treating a similar food or beverage composition without the antifouling agent.

IPC 8 full level
A23L 1/0534 (2006.01); **A23L 5/10** (2016.01); **A23L 29/262** (2016.01)

CPC (source: EP US)
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Citation (search report)
See references of WO 2006102051A1

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