

Title (en)
Method for controlling bacterial infection in the sugar production process

Title (de)
Methode zur Kontrolle von bakteriellen Infektionen in der Zuckerverarbeitung

Title (fr)
Méthode de contrôle des infections bactériennes dans la production de sucre.

Publication
EP 1837409 A1 20070926 (EN)

Application
EP 07425165 A 20070321

Priority
IT RM20060157 A 20060322

Abstract (en)
The invention concerns a method for controlling bacterial infection of raw sugar solutions obtained from sacchariferous material of vegetable origin, and in particular from sacchariferous plants such as sugar beet or sugar cane, based on the combined use of two different types of agents having antimicrobial and/or bacteriostatic activity, both suitable for use in the processing of products destined for human or animal consumption. The first of the two agents consists of one or more solutions based on peracetic acid and hydrogen peroxide, at least one of which is continuously fed into the process, while the second agent, used as a secondary disinfectant fed into the process in a non-continuous manner, consists of a product based on natural vegetable extracts compatible with foodstuffs and having antibacterial activity, such as hop extract, vegetable resin extracts compatible with foodstuffs or palm kernel extracts.

IPC 8 full level
C13B 10/00 (2011.01)

CPC (source: EP)
C13B 10/006 (2013.01)

Citation (search report)

- [AD] US 2003101990 A1 20030605 - POLLACH GUNTER [AT], et al
- [A] WO 2004081236 A1 20040923 - TULLN ZUCKERFORSCHUNG GMBH [AT], et al
- [DA] EP 0681029 A2 19951108 - TULLN ZUCKERFORSCHUNG GMBH [AT]
- [A] WO 9416110 A1 19940721 - SOLVAY INTEROX LTD [GB], et al
- [A] EP 0456627 A2 19911113 - EKA NOBEL AB [SE]
- [A] US 4427454 A 19840124 - OYAMA YOSHIYUKI [JP], et al
- [A] US 3108907 A 19631029 - CAPDEVILA CUCULLU JOSE
- [A] HEIN W ET AL: "NEUE ERKENNTNISSE BEIM EINSATZ VON HOPFENPRODUKTEN IN DER ZUCKERINDUSTRIE NEW FINDINGS WITH THE USE OF HOP PRODUCTS IN THE SUGAR INDUSTRY", ZUCKERINDUSTRIE - SUGAR INDUSTRY - INDUSTRIE SUCRIERE, BARTENS, BERLIN, DE, vol. 122, no. 12, 1997, pages 940 - 949, XP001024033, ISSN: 0344-8657
- [DA] POLLACH G ET AL: "The concept of different natural antibacterials for the sugar industry.", ZUCKERINDUSTRIE 129 (8) 555-564 2004, 2004, XP009087899
- [PA] HEIN W ET AL: "10 years' experience with natural antibacterials within Agrana.", SUGAR INDUSTRY/ZUCKERINDUSTRIE 131 (7) 477-491 2006 ZUCKERFORSCHUNG TULLN GMBH., JOSEF-REITHER-STR. 21-23, A-3430 TULLN, AUSTRIA. E-MAIL WALTER-HEIN(A)ZUCKERFORSCHUNG.AT, 2006, XP009087900

Cited by
US8557309B2; WO2022081236A3

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1837409 A1 20070926; EP 1837409 B1 20090909; AT E442460 T1 20090915; DE 602007002315 D1 20091022; IT RM20060157 A1 20070923

DOCDB simple family (application)
EP 07425165 A 20070321; AT 07425165 T 20070321; DE 602007002315 T 20070321; IT RM20060157 A 20060322