

Title (en)

METHOD AND APPARATUS FOR STERILIZATION OF SEEDS, HERBS AND SPICES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR STERILISIERUNG VON SAMEN, KRAEUTER UND GEWUERZE

Title (fr)

PROCEDE ET APPAREIL DE STERILISATION DE GRAINES, HERBES ET EPICES

Publication

EP 0755190 A1 19970129 (EN)

Application

EP 95944568 A 19951229

Priority

- US 9517060 W 19951229
- US 36567394 A 19941229

Abstract (en)

[origin: WO9620606A1] The present invention provides a method for sterilizing seeds, herbs and spices while minimizing the loss of volatile oils from the product. The seeds, herbs, and spices are fed from a hopper (116) to a sterilizer (112). Sterilization is carried out by quickly heating the surface of the seeds, herbs and spices with steam or other heating agent under greater than atmospheric pressure to reduce the microbial load substantially without volatilization of oils in the product. The product is then quickly cooled under greater than atmospheric pressure in a pressure vessel and cooling chamber (124). Carrying out the cooling under pressure reduces the volatile oil loss due to flashing and hence substantially retains the original aroma and flavor of the sterilized product. The cooled product may then be discharged from the cooling chamber (124) to a dryer (130).

IPC 1-7

A23B 9/02; A23L 3/16

IPC 8 full level

A23B 7/005 (2006.01); **A23B 7/02** (2006.01); **A23B 9/02** (2006.01); **A23B 9/08** (2006.01)

CPC (source: EP)

A23B 7/0053 (2013.01); **A23B 7/02** (2013.01); **A23B 9/025** (2013.01); **A23B 9/08** (2013.01)

Citation (search report)

See references of WO 9620606A1

Cited by

WO2020152694A1

Designated contracting state (EPC)

DE GB NL

DOCDB simple family (publication)

WO 9620606 A1 19960711; AR 005165 A1 19990414; AU 4691296 A 19960724; BR 9507120 A 19970812; CA 2184384 A1 19960711; CN 1146137 A 19970326; EP 0755190 A1 19970129; MX 9603755 A 19971231

DOCDB simple family (application)

US 9517060 W 19951229; AR P960105803 A 19961220; AU 4691296 A 19951229; BR 9507120 A 19951229; CA 2184384 A 19951229; CN 95192647 A 19951229; EP 95944568 A 19951229; MX 9603755 A 19951229