

Title (en)

Method and device for the sterilization of an installation for packaging foodstuffs or pharmaceutical products.

Title (de)

Verfahren und Vorrichtung zum Sterilisieren einer Abfüllanlage für Nahrungsmittel oder pharmazeutische Produkte.

Title (fr)

Procédé et dispositif de stérilisation d'une installation de conditionnement de produits alimentaires ou pharmaceutiques.

Publication

**EP 0369888 A1 19900523 (FR)**

Application

**EP 89403165 A 19891117**

Priority

FR 8815042 A 19881118

Abstract (en)

[origin: JPH02269619A] PURPOSE: To enable sufficiently accelerated heat-sterilization and forcible air-cooling of a metering and dispensing device by a method wherein a heat-resistant sheet between a pair of discharge tubes and outlet tubular portions is perforated, and a heat-sterilizing fluid is circulated via a metering and dispensing device. CONSTITUTION: The lower end of each discharge tube 15 is extended to the inside of a horizontal duct connected to a tank in a closed circuit for a sterilizing fluid and the closed circuit has a means to heat-distribute the sterilizing fluid and a means to cool the fluid. Also, a sterilizing device 14 has perforating members 23 which perforate a heat-resistant sheet 12 to make a small hole 24 on the discharge tube 15 when the heat-resistant sheet 12 is hermetically held between an outlet tubular portion 10 of a metering and dispensing device 9 and discharge tube 15 at its high position. It is thus possible to efficiently circulate the sterilizing fluid to the lower portion of each metering and dispensing device 9. This enables sufficiently accelerated heat-sterilization and forcible air-cooling for the metering and dispensing device without causing condensation of the sterilizing fluid in the metering and dispensing device 9.

Abstract (fr)

L'invention décrit un procédé et dispositif de stérilisation d'une installation de conditionnement de produits alimentaires ou pharmaceutiques. Le dispositif de stérilisation comprend, d'une part, au moins une rangée de tubes d'évacuation (15) susceptibles d'appliquer une feuille résistante à la chaleur (12) et obturant la base d'un tunnel (1) à stériliser, contre l'extrémité inférieure des tubulures de sortie (10) d'un doseur-distributeur (9), et, d'autre part, au moins une rangée d'organes de perçage (23) susceptibles de percer ladite feuille (12) et d'établir pour un fluide stérilisant un passage à travers celle-ci lorsque les tubes d'évacuation (15) et tubulures de sortie (10) enserrant ladite feuille (12).

IPC 1-7

**B65B 55/02**

IPC 8 full level

**B65B 1/02** (2006.01); **A23L 3/02** (2006.01); **A61L 2/04** (2006.01); **A61L 2/06** (2006.01); **B65B 55/02** (2006.01); **B65B 55/04** (2006.01)

CPC (source: EP US)

**B65B 55/025** (2013.01 - EP US); **B65B 2210/06** (2013.01 - EP US)

Citation (search report)

- [AD] FR 2391112 A1 19781215 - GATRUN ANSTALT [LI]
- [A] US 4446674 A 19840508 - INADA JUNJI [JP]

Cited by

CN107021248A; DE19846277A1; DE19846277C2; DE19904131A1; DE19904131C2; DE102016201313A1; WO9606780A1

Designated contracting state (EPC)

DE ES GB IT

DOCDB simple family (publication)

**EP 0369888 A1 19900523**; **EP 0369888 B1 19921223**; DE 68904051 D1 19930204; DE 68904051 T2 19930519; ES 2037453 T3 19930616; FR 2639321 A1 19900525; FR 2639321 B1 19910222; JP H02269619 A 19901105; US 4996824 A 19910305

DOCDB simple family (application)

**EP 89403165 A 19891117**; DE 68904051 T 19891117; ES 89403165 T 19891117; FR 8815042 A 19881118; JP 29775889 A 19891117; US 43783789 A 19891117