

Title (en)

Pipe for filling bottles and the like, with an incorporated cleaning device

Title (de)

Füllelement mit integrierter Reinigungsvorrichtung, zum Abfüllen von Flaschen oder anderen Behältern

Title (fr)

Tête de remplissage avec un dispositif de nettoyage incorporé, pour remplir des bouteilles ou des récipients similaires

Publication

**EP 1270498 A1 20030102 (EN)**

Application

**EP 02380132 A 20020621**

Priority

ES 200101460 A 20010622

Abstract (en)

The pipe, in addition to a retractable unit comprised of a tube (9), a ring (5) and a pneumatic membrane (3), which assembly may rise and descend to allow or prevent liquid passage through a diffuser (10), incorporates a pan (13) used for the automated cleaning of the pipe itself, which pan (13) is mounted such that it is coupled and uncoupled from the pipe automatically by means of a pneumatic cylinder (14) that is hinged between the base of the deposit (2) that contains the liquid and the pan (13), with the pipe having an enveloping sleeve (21) and an outer casing (22), the former being capable of moving upwards to push on the retractable unit, thus allowing the liquid to pass towards the chamber defined by the casing (22) and the pan (13) in the closed or coupled position of said pan, proceeding to the external and internal cleaning of the pipe. This upward push is effected by the pan (13) pushing on a bushing (23) mounted on the inner and bottom part of the enveloping sleeve (21). <IMAGE>

IPC 1-7

**B67C 3/00**

IPC 8 full level

**B67C 3/00** (2006.01)

CPC (source: EP ES)

**B67C 3/001** (2013.01 - ES); **B67C 3/002** (2013.01 - ES); **B67C 3/004** (2013.01 - EP ES); **B67C 7/0046** (2013.01 - ES); **B67C 7/0053** (2013.01 - ES)

Citation (search report)

- [A] FR 2678920 A1 19930115 - CAREME PAUL [FR], et al
- [A] DE 3722495 A1 19890119 - HOLSTEIN & KAPPERT MASCHF [DE]
- [DA] FR 2721305 A3 19951222 - GALLARDO GONZALEZ ANTONIO [ES], et al

Cited by

ES2310086A1; DE102010027623A1; FR2879583A1; EP3756775A1; IT201900006967A1; WO2010000359A1

Designated contracting state (EPC)

FR GB IT PT

DOCDB simple family (publication)

**EP 1270498 A1 20030102**; **EP 1270498 B1 20040616**; ES 2192453 A1 20031001; ES 2192453 B1 20050316; ES 2233162 A1 20050601; ES 2233162 B1 20060816; MX PA02006327 A 20040812; PT 1270498 E 20040930

DOCDB simple family (application)

**EP 02380132 A 20020621**; ES 200101460 A 20010622; ES 200300221 A 20030129; MX PA02006327 A 20020621; PT 02380132 T 20020621