

Title (en)

SPRAYING STATION OF A CLEANING MACHINE

Title (de)

BEHÄLTERREINIGUNGSMASCHINE MIT EINEM TAUCHBAD UND EINER SPRITZSTATION

Title (fr)

STATION DE PULVÉRISATION D'UNE MACHINE DE NETTOYAGE

Publication

EP 3645180 B1 20240731 (DE)

Application

EP 18733239 A 20180620

Priority

- DE 102017114657 A 20170630
- EP 2018066417 W 20180620

Abstract (en)

[origin: WO2019002047A2] The invention relates to a cleaning machine for cleaning containers, in which the containers to be cleaned are moved by means of a transport system between a bottle inlet and a bottle delivery station through various treatment zones, wherein the treatment zones comprise at least one immersion bath and at least one spraying zone with at least one spraying station, wherein the at least one spraying station has at least one spray nozzle with at least one cleaning jet for applying a cleaning fluid to the container which is accommodated with its respective downwardly directed container mouth in a transport system, wherein the orientation of the cleaning jet relative to the container to be cleaned is predetermined in the region of the spraying station during the application of the cleaning fluid to the container. According to the invention, the spraying station has at least one inspection device which is designed to detect and/or evaluate the at least one cleaning jet produced by the injection nozzle, the inspection device comprises at least one sensor unit for detecting the at least one cleaning jet produced by the injection nozzle and an evaluation unit for evaluating the cleaning jet detected by the sensor unit, wherein the sensor unit is designed as a camera unit.

IPC 8 full level

B08B 9/28 (2006.01); **B05B 12/08** (2006.01); **B05B 13/06** (2006.01); **B08B 3/00** (2006.01); **B08B 9/34** (2006.01); **B08B 13/00** (2006.01); **G01P 13/00** (2006.01); **G01V 8/10** (2006.01)

CPC (source: EP)

B05B 12/082 (2013.01); **B08B 9/28** (2013.01); **B08B 9/34** (2013.01); **B05B 13/0627** (2013.01); **B05B 13/069** (2013.01); **B08B 3/00** (2013.01)

Citation (examination)

WO 2008022740 A2 20080228 - KHS AG [DE], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2019002047 A2 20190103; **WO 2019002047 A3 20190314**; CN 111050932 A 20200421; DE 102017114657 A1 20190103; EP 3645180 A2 20200506; EP 3645180 B1 20240731

DOCDB simple family (application)

EP 2018066417 W 20180620; CN 201880043958 A 20180620; DE 102017114657 A 20170630; EP 18733239 A 20180620