

Title (en)

ROTORY BELL ATOMIZER SHAPING AIR CONFIGURATION, AIR CAP APPARATUS AND CORRESPONDING METHOD

Title (de)

ROTATIONSGLOCKENZERSTÄUBER ZUR FORMUNG DER LUFTKONFIGURATION, LUFTKAPPENVORRICHTUNG UND ENTSPRECHENDE METHODE

Title (fr)

CONFIGURATION D'AIR DE MISE EN FORME D'ATOMISEUR À CLOCHE ROTATIVE, APPAREIL DE CAPUCHON D'AIR ET MÉTHODE CORRESPONDANTE

Publication

**EP 4094842 A1 20221130 (EN)**

Application

**EP 22175916 A 20220527**

Priority

- US 202163194479 P 20210528
- US 202117460932 A 20210830

Abstract (en)

A shaping air ring for a rotary bell atomizer spray device includes a plurality of circumferentially spaced nozzles disposed in the shaping air ring, wherein each nozzle has a mix chamber, at least one inlet on an upstream end of the mix chamber, and an outlet at a downstream end of the mix chamber. First and second air flows are provided to the mix chamber through the at least one inlet and a combined air flow is discharged through the outlet. The combined air flow shapes the spray pattern of the liquid sprayed by the rotary bell atomizer spray device.

IPC 8 full level

**B05B 3/10** (2006.01); **B05B 5/04** (2006.01)

CPC (source: EP)

**B05B 3/1092** (2013.01); **B05B 3/1014** (2013.01); **B05B 5/0407** (2013.01); **B05B 5/0426** (2013.01)

Citation (applicant)

- US 8973850 B2 20150310 - PERINET SYLVAIN [FR], et al
- US 8827181 B2 20140909 - NOLTE HANS-JURGEN [DE], et al
- US 8881672 B2 20141111 - FISCHER ANDREAS [DE], et al
- US 8490572 B2 20130723 - MITSUI MICHIO [JP], et al
- US 9943864 B2 20180417 - MITSUI MICHIO [JP], et al

Citation (search report)

- [X] JP H07148447 A 19950613 - MAZDA MOTOR
- [X] JP 2003236424 A 20030826 - NISSAN MOTOR
- [A] US 10919065 B2 20210216 - MEDARD CYRILLE [FR], et al
- [A] EP 1849527 B1 20190612 - DUERR SYSTEMS AG [DE]

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

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

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DOCDB simple family (publication)

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