

Title (en)

BELL CUP, ROTARY ATOMIZER HAVING THE BELL CUP, PAINTING INSTALLATION AND CORRESPONDING PAINTING METHOD

Title (de)

GLOCKENTELLER, ROTATIONSZERSTÄUBER MIT DEM GLOCKENTELLER, LACKIERANLAGE UND ENTSPRECHENDES LACKIERVERFAHREN

Title (fr)

COUPELLE EN CLOCHE, PULVÉRISATEUR CENTRIFUGE COMPORTANT LA COUPELLE EN CLOCHE, INSTALLATION DE PEINTURE ET PROCÉDÉ DE PEINTURE CORRESPONDANT

Publication

**EP 4377016 A1 20240605 (DE)**

Application

**EP 22783522 A 20221004**

Priority

- DE 102021125820 A 20211005
- EP 2022077498 W 20221004

Abstract (en)

[origin: WO2023057407A1] The invention relates to a bell cup (2) for a rotary atomizer (1) for painting components (26), having the following features: • a hub (4) for rotatably mounting the bell cup (2) on the rotary atomizer (1) such that the bell cup (2) can be rotated about an axis of rotation (3), • a peripheral annular spray edge (8) for spraying the paint in the form of a spray jet, and • a peripheral outer lateral surface (9, 10, 11) which widens towards the spray edge (8) in the distal direction along the axis of rotation (3). The invention provides that the outer lateral surface of the bell cup (2) is subdivided into different portions which are differently angled. Furthermore, the invention comprises a rotary atomizer having such a bell cup, a painting installation and a corresponding painting method.

IPC 8 full level

**B05B 3/10** (2006.01); **B05B 13/04** (2006.01); **B05B 15/55** (2018.01)

CPC (source: EP KR)

**B05B 3/1014** (2013.01 - EP KR); **B05B 3/1064** (2013.01 - EP KR); **B05B 3/1092** (2013.01 - EP KR); **B05B 13/0452** (2013.01 - KR); **B05B 15/55** (2018.02 - KR); **B05B 13/0452** (2013.01 - EP); **B05B 15/55** (2018.02 - EP)

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**DE 102021125820 A1 20230406**; CN 117836063 A 20240405; EP 4377016 A1 20240605; KR 20240072174 A 20240523; WO 2023057407 A1 20230413

DOCDB simple family (application)

**DE 102021125820 A 20211005**; CN 202280056861 A 20221004; EP 2022077498 W 20221004; EP 22783522 A 20221004; KR 20247011364 A 20221004