

Title (en)

FLUIDIC DISPENSING DEVICE HAVING FEATURES TO REDUCE STAGNATION ZONES

Title (de)

FLUIDABGABEVORRICHTUNG MIT FUNKTIONEN ZUR VERRINGERUNG VON STAUVZENEN

Title (fr)

DISPOSITIF DE DISTRIBUTION DE FLUIDE AYANT DES FONCTIONS POUR RÉDUIRE DES ZONES DE STAGNATION

Publication

**EP 3257676 A1 20171220 (EN)**

Application

**EP 17175934 A 20170614**

Priority

- US 201615183666 A 20160615
- US 201615183693 A 20160615
- US 201615183705 A 20160615
- US 201615183722 A 20160615
- US 201615183736 A 20160615
- US 201615193476 A 20160627

Abstract (en)

A fluidic dispensing device (110) includes a housing (112), an ejection chip (118) and a stir bar (132). The housing has an exterior wall (140-1) and a chamber. The exterior wall has a chip mounting surface (140-2) defining a first plane and has an opening (140-3). The chamber defines an interior space and has a port coupled in fluid communication with the opening (140-3). The ejection chip is mounted to the chip mounting surface of the exterior wall. A planar extent of the ejection chip is oriented along the first plane, the ejection chip is in fluid communication with the opening, and a fluid ejection direction of the ejection chip is substantially orthogonal to the first plane. The stir bar is located in the chamber. The stir bar has a rotational axis (160), and the rotational axis of the stir bar is substantially perpendicular to the fluid ejection direction, or parallel to the planar extent of the ejection chip.

IPC 8 full level

**B41J 2/175** (2006.01)

CPC (source: CN EP)

**B01F 33/453** (2022.01 - EP); **B41J 2/01** (2013.01 - CN); **B41J 2/175** (2013.01 - EP); **B41J 2/17503** (2013.01 - EP);  
**B41J 2/17513** (2013.01 - CN EP); **B41J 2/17546** (2013.01 - EP); **B41J 2/17553** (2013.01 - EP)

Citation (applicant)

US 2006268080 A1 20061130 - NAKAZAWA YUSUKE [JP]

Citation (search report)

- [YA] US 2015343784 A1 20151203 - ANDERSON JR JAMES DANIEL [US], et al
- [YA] EP 2919072 A1 20150916 - RICOH CO LTD [JP]
- [A] JP 2006235470 A 20060907 - CANON KK
- [A] US 2008279595 A1 20081113 - UEZONO TSUTOMU [JP]

Cited by

EP3332972A1; EP3332973A1; CN109789495A

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

DOCDB simple family (publication)

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JP 6922459 B2 20210818

DOCDB simple family (application)

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