

Title (en)

Device for printing on bottles or similar receptacles

Title (de)

Vorrichtung zum Bedrucken von Flaschen oder dergleichen Behälter

Title (fr)

Dispositif pour imprimer sur bouteilles et récipients similaires

Publication

EP 1806233 A1 20070711 (DE)

Application

EP 06024563 A 20061128

Priority

DE 102006001223 A 20060110

Abstract (en)

The device has a print station (11) including a print head (3) that is an electrostatic print head, which is provided with a number of controllable individual nozzles (6) for controlled discharging of printing ink. The individual nozzles are arranged on top of each other in a row in proximity to a longitudinal axis of the print head. Bottles (1, 1a) are arranged with its axis or axis of the print station during imprinting process. An independent claim is also included for a method of operating a device for imprinting on a container e.g. bottle.

Abstract (de)

Bei einer Vorrichtung zum Bedrucken von Flaschen oder dergleichen Behälter an um eine Behälterachse rotationssymmetrischen, insbesondere zylindrischen oder kegelförmig Behälteroberflächen mit wenigstens einem Druckkopf (3) ist der verwendete Druckkopf ein elektrostatischer Druckkopf mit einer Vielzahl von individuell ansteuerbaren Einzeldüsen zur gesteuerten Abgabe von Druckfarbe.

IPC 8 full level

B41J 3/407 (2006.01); **B41J 2/06** (2006.01)

CPC (source: EP US)

B41J 2/06 (2013.01 - EP US); **B41J 3/4073** (2013.01 - EP US); **B41J 3/40733** (2020.08 - EP US); **B41J 25/316** (2013.01 - EP US); **B65B 61/26** (2013.01 - EP US); **B41J 11/002** (2013.01 - EP US); **B41J 11/00214** (2021.01 - EP US); **B41M 5/0088** (2013.01 - EP US)

Citation (applicant)

- EP 1243425 A2 20020925 - FUJI PHOTO FILM CO LTD [JP]
- EP 1225053 A2 20020724 - DOLPHIN PACKAGING LTD [GB]

Citation (search report)

- [A] EP 0209896 A2 19870128 - SCHMALBACH LUBECA [DE]
- [A] US 6769357 B1 20040803 - FINAN JOSEPH [US]

Citation (third parties)

Third party :

EP 1225053 A2 20020724 - DOLPHIN PACKAGING LTD [GB]

Cited by

DE102009058222B4; EP3434490A1; FR3057490A1; CN102753352A; CN107107626A; EP2595810A4; CN102712392A; ITMI20131318A1; EP2832548A1; JP2016540660A; US10589889B2; US9090090B2; US9517599B2; WO2016139508A1; WO2010105726A1; WO2012028225A3; WO2010009857A1; WO2011072763A1; WO2013170888A1; WO2016079283A1; WO2012012793A2; WO2011089191A1; WO2012022746A1; WO2015051215A1; EP3224214B1; EP2098355B1

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1806233 A1 20070711; **EP 1806233 B1 20140416**; BR PI0605349 A 20071016; CN 100999152 A 20070718; CN 100999152 B 20110316; DE 102006001223 A1 20070712; JP 2007185960 A 20070726; PL 1806233 T3 20140930; RU 2007100427 A 20080720; RU 2429135 C2 20110920; US 2007157559 A1 20070712; US 2009145511 A1 20090611; US 9221275 B2 20151229

DOCDB simple family (application)

EP 06024563 A 20061128; BR PI0605349 A 20061218; CN 200710002241 A 20070110; DE 102006001223 A 20060110; JP 2007001071 A 20070109; PL 06024563 T 20061128; RU 2007100427 A 20070109; US 37076409 A 20090213; US 62183307 A 20070110