

Title (en)

Printing device, print head for same and method for extraction of printing ink

Title (de)

Druckvorrichtung, Druckkopf hierfür und Verfahren zum Absaugen von Druckfarbe

Title (fr)

Dispositif d'impression, tête d'impression destinée à celui-ci et procédé d'aspiration de couleur d'impression

Publication

**EP 2698256 B2 20220817 (DE)**

Application

**EP 13176464 A 20130715**

Priority

DE 102012214349 A 20120813

Abstract (en)

[origin: EP2698256A1] The printing apparatus (12) has a printing head (16) that is located on an article or container outer surface (14) during a printing operation in a defined position relative to a printing area (18). A suction device (22) is coupled for exhausting sprayed or spattered ink. The suction device is spatially and functionally associated with the printing head. The suction device is arranged in close proximity to the outlet openings in the printing head for the printing ink. The suction device is combined or integrated in a structural unit with the printing head. An independent claim is also included for a method for exhausting sprayed or spattered ink in the immediate vicinity of the outlet openings for printing ink of a print head.

IPC 8 full level

**B41J 2/17** (2006.01); **B41J 3/407** (2006.01)

CPC (source: EP US)

**B41J 2/1714** (2013.01 - EP US); **B41J 3/4073** (2013.01 - EP US); **B41J 3/40733** (2020.08 - EP US)

Citation (opposition)

Opponent :

- DE 102006053821 A1 20080515 - FRANCOTYP POSTALIA GMBH [DE]
- DE 102009013477 A1 20100930 - KHS AG [DE]
- DE 102009041527 A1 20110210 - TILL VOLKER [DE]
- DE 102010036839 A1 20120209 - OCE PRINTING SYSTEMS GMBH [DE]
- DE 1908948 U 19650121 - SCHILDE MASCHB AG [DE]
- CH 695555 A5 20060630 - FAES AG [CH]
- WO 2013075764 A1 20130530 - KHS GMBH [DE], et al
- EP 2361774 A1 20110831 - MIMAKI ENG KK [JP]
- JP 2010058441 A 20100318 - MIMAKI ENG KK
- JP 2000255083 A 20000919 - CANON KK

Cited by

CN113365920A; EP3978260A3; US12103322B2

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)

**EP 2698256 A1 20140219; EP 2698256 B1 20190123; EP 2698256 B2 20220817;** CN 103587250 A 20140219; CN 103587250 B 20160914;  
DE 102012214349 A1 20140213

DOCDB simple family (application)

**EP 13176464 A 20130715;** CN 201310351696 A 20130813; DE 102012214349 A 20120813