

Title (en)

METHOD AND DIRECT-PRINTING MACHINE FOR PRINTING CONTAINERS OF DIFFERENT MATERIAL TYPES IN A DIRECT-PRINTING PROCESS

Title (de)

VERFAHREN UND DIREKTD RUCKMASCHINE ZUR BEDRUCKUNG VON BEHÄLTERN AUS UNTERSCHIEDLICHEN MATERIALTYPEN IM DIREKTD RUCK

Title (fr)

PROCÉDÉ ET MACHINE D'IMPRESSION DIRECTE POUR IMPRIMER SUR DES RÉCIPIENTS EN DIFFÉRENTS TYPES DE MATÉRIAU EN IMPRESSION DIRECTEMENT

Publication

**EP 3558685 B1 20230315 (DE)**

Application

**EP 17794281 A 20171024**

Priority

- DE 102016226166 A 20161223
- EP 2017077090 W 20171024

Abstract (en)

[origin: WO2018114097A1] The invention relates to a method (100) and a direct-printing machine for printing containers of different material types in a direct-printing process. Containers of a first material type are transported (101) using a transport device and are printed with multiple layers of a first base ink (102) that is compatible with the first material type and at least one colored ink (103) over the base ink by means of multiple printing assemblies using direct-printing heads. According to the invention, the first base ink is replaced with a second base ink which is compatible with a second material type when switching (200, 300, 400) to containers of the second material type, and the containers of the second material type are then coated with multiple layers of the second base ink (105) and the at least one colored ink (106) over the base ink.

IPC 8 full level

**B41J 3/407** (2006.01); **B41J 2/175** (2006.01)

CPC (source: EP US)

**B41J 2/1707** (2013.01 - US); **B41J 2/175** (2013.01 - EP US); **B41J 2/211** (2013.01 - US); **B41J 3/4073** (2013.01 - EP US)

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)

**WO 2018114097 A1 20180628**; CN 110167759 A 20190823; CN 110167759 B 20210727; DE 102016226166 A1 20180628; EP 3558685 A1 20191030; EP 3558685 B1 20230315; US 11241890 B2 20220208; US 2020189292 A1 20200618

DOCDB simple family (application)

**EP 2017077090 W 20171024**; CN 201780080142 A 20171024; DE 102016226166 A 20161223; EP 17794281 A 20171024; US 201716472858 A 20171024