

Title (en)

DIRECT PRINTER AND METHOD FOR PRINTING CONTAINERS WITH A MULTIPLE-COLOUR DIRECT PRINT

Title (de)

DIREKTD RUCKMASCHINE UND -VERFAHREN ZUR BEDRUCKUNG VON BEHÄLTERN MIT EINEM MEHRFARBIGEN DIREKTD RUCK

Title (fr)

MACHINE ET PROCÉDÉ D'IMPRESSION DIRECTE POUR EFFECTUER UNE IMPRESSION DIRECTE MULTICOLORE SUR DES CONTENANTS

Publication

**EP 3684620 B1 20230621 (DE)**

Application

**EP 18737611 A 20180705**

Priority

- DE 102017215431 A 20170904
- EP 2018068174 W 20180705

Abstract (en)

[origin: WO2019042633A1] Direct printer (1) for printing containers with a multiple-colour direct print, with a transporter (3) for the transport of the containers (2), a plurality of stationary direct printing stations (5W, 5C, 5M, 5Y, 5S, 5K) which are joined to it, with direct printing heads (52) for printing the containers (2) with the multiple-colour direct print, and with an ink supply system for supplying the direct printing stations (5W, 5C, 5M, 5Y, 5S, 5K) with a plurality of printing inks, wherein the ink supply system comprises one supply tank (51) per printing ink, characterized in that the direct printer (1) comprises a refilling station (6) with a plurality of receiving spaces (630) for exchangeable refilling tanks (631), wherein the receiving spaces (630) are configured in each case for automatically transferring printing ink from one of the refilling tanks (631) into one of the supply tanks (51).

IPC 8 full level

**B41J 3/407** (2006.01); **B41J 2/165** (2006.01); **B41J 2/17** (2006.01); **B41J 2/175** (2006.01); **B41J 2/18** (2006.01); **B41J 29/17** (2006.01)

CPC (source: EP US)

**B41J 2/175** (2013.01 - EP); **B41J 2/17506** (2013.01 - EP); **B41J 2/17553** (2013.01 - EP); **B41J 2/18** (2013.01 - EP); **B41J 3/4073** (2013.01 - EP US); **B41J 3/40733** (2020.08 - EP US); **B41J 29/17** (2013.01 - EP); **B41J 2/16552** (2013.01 - EP)

Citation (examination)

- DE 102015215224 A1 20170216 - KRONES AG [DE]
- DE 102015220287 A1 20170420 - KRONES AG [DE]
- DE 102013208065 A1 20130704 - KRONES AG [DE]
- DE 102015215227 A1 20170216 - KRONES AG [DE]

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)

**DE 102017215431 A1 20190307**; CN 212604065 U 20210226; EP 3684620 A1 20200729; EP 3684620 B1 20230621; WO 2019042633 A1 20190307

DOCDB simple family (application)

**DE 102017215431 A 20170904**; CN 201890001150 U 20180705; EP 18737611 A 20180705; EP 2018068174 W 20180705