

Title (en)

METHOD FOR TRANSPORTING PRINTING MEDIA AND FOR CLEANING A NOZZLE FRONT PANEL

Title (de)

VERFAHREN ZUM TRANSPORT VON DRUCKMEDIEN SOWIE ZUR REINIGUNG EINER DÜSENFRONTPLATTE

Title (fr)

PROCÉDÉ DE TRANSPORT DE SUPPORTS D'IMPRESSION ET DE NETTOYAGE D'UN PANNEAU AVANT DE BUSE

Publication

**EP 3953186 A1 20220216 (DE)**

Application

**EP 20751472 A 20200805**

Priority

- IT 201900014205 A 20190807
- EP 2020025357 W 20200805

Abstract (en)

[origin: WO2021023400A1] The invention relates to a method for transporting piecemeal printing media (101) into the effective region of a print head (103) and out of said effective region again, and for cleaning at least one part of at least one nozzle front panel (105) provided on the print head (103), wherein the method comprises the steps of: a) providing a printing system (100) that comprises the print head (103) having the nozzle front panel (105), wherein the print head (103) comprises at least one print module (107) having at least one nozzle panel (109), from which droplets of a printable composition can be discharged; b) transporting the printing media (101) in a transport direction (T) in such a way that printing media (101) can be transported into the effective region of the nozzle front panel (105) and out of said region again; c) cleaning the at least one part of the nozzle front panel (105) by means of one or more fluid flow configurations (111) from a fluid-flow-activating cleaning device (114), wherein the fluid flow configurations (111) comprise at least one fluid flow directed against the at least one part of the nozzle front panel (105), wherein the nozzle front panel (105) comprises the nozzle panel (109), wherein at least some of the printing media (101) are transported in the transport direction (T) so as to be spaced apart from at least one of their closest adjacent printing media (101), as a result of which gaps (L) are produced between these spaced-apart adjacent printing media (101) in the transport direction (T) and the cleaning device (114) activates fluid flow not necessarily always but exclusively in the region of the gaps (L) and so as to be synchronised with said gaps.

IPC 8 full level

**B41J 29/17** (2006.01); **B41J 2/165** (2006.01); **B41J 3/28** (2006.01); **B41J 3/407** (2006.01); **B41J 11/00** (2006.01); **B41M 5/00** (2006.01); **C09D 11/30** (2014.01)

CPC (source: CN EP)

**B28B 11/048** (2013.01 - CN); **B41J 2/16552** (2013.01 - CN EP); **B41J 2/16585** (2013.01 - CN EP); **B41J 3/407** (2013.01 - CN EP); **B41J 11/00** (2013.01 - CN); **B41J 29/17** (2013.01 - CN EP); **B41M 5/0047** (2013.01 - CN); **B41M 5/007** (2013.01 - CN); **B28B 11/048** (2013.01 - EP); **B41J 2002/16555** (2013.01 - CN EP)

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)

**WO 2021023400 A1 20210211**; BR 112021023676 A2 20220524; CN 114126879 A 20220301; CN 114126879 B 20240319; EP 3953186 A1 20220216; EP 3953186 B1 20231011; EP 3953186 C0 20231011; ES 2968355 T3 20240509; PL 3953186 T3 20240318

DOCDB simple family (application)

**EP 2020025357 W 20200805**; BR 112021023676 A 20200805; CN 202080038990 A 20200805; EP 20751472 A 20200805; ES 20751472 T 20200805; PL 20751472 T 20200805