Title (en)

METHOD OF PRINTING A PAPER AND DIGITAL PRINTING DEVICE COMPRISING MEANS FOR REDUCING CONDENSATE FORMATION

Title (de)

VERFAHREN ZUM BEDRUCKEN EINES PAPIERS UND DIGITALDRUCKEINRICHTUNG UMFASSEND MITTELS ZUM REDUZIEREN VON KONDENSATBILDUNG

Title (fr)

PROCÉDÉ D'IMPRESSION SUR UN PAPIER ET IMPRIMANTE NUMÉRIQUE COMPRENANT DES MOYENS POUR RÉDUIRE LA FORMATION DE CONDENSATION

Publication

**EP 4272966 A1 20231108 (DE)**

Application

**EP 22171794 A 20220505**

Priority

EP 22171794 A 20220505

Abstract (en)

[origin: WO2023213828A1] The invention relates to a method for printing a paper (10) by means of a digital printing system which has a plurality of ink application units (6) for applying printing ink of different colours to the paper (10), in which method the paper (10) to be printed is guided past the ink application units (6) in a feed direction, wherein the digital printing system has a device (4, 18) which is designed and suitable for preventing or reducing the formation of condensation on the ink application units (6), and this device (4, 18) is used to prevent or reduce the formation of condensation on the ink application units (6), wherein the device (4, 18) has a temperature-control device and an electrical controller, wherein the temperature-control device is designed to influence a temperature of the ink application units (6), and the electrical controller is designed to control the temperature-control device in such a way that the ink application units (6) have different temperatures, wherein the temperatures of the ink application units (6) increase in the feed direction (16) and temperatures of two adjacent ink application units (6) differ by at least 0.5°C and by at most 1.5°C, wherein the temperatures of the first ink application unit (6) in the feed direction (16) and of the last ink application unit (6) in the feed direction (16) differ by at most 10°C.

Abstract (de)

Die Erfindung betrifft ein Verfahren zum Bedrucken eines Papiers (10) mittels einer Digitaldruckanlage, die mehrere Farbauftragswerke (6) zum Aufbringen von Drucktinte unterschiedlicher Farben auf das Papier (10) aufweist, wobei bei dem Verfahren das zu bedruckende Papier (10) in einer Vorschubrichtung an den Farbauftragswerken (6) vorbeigeführt wird, dadurch gekennzeichnet, dass die Digitaldruckanlage eine Einrichtung (4, 18) aufweist, die eingerichtet und geeignet ist, eine Kondensatbildung an den Farbauftragswerken (6) zu verhindern oder zu reduzieren, und mit dieser Einrichtung (4, 18) die Kondensatbildung an den Farbauftragswerken (6) verhindert oder reduziert wird.

IPC 8 full level

**B41J 2/17** (2006.01); **B41J 29/377** (2006.01); B41J 25/00 (2006.01)

CPC (source: EP)

**B41J 2/1714** (2013.01); **B41J 29/377** (2013.01); B41J 2025/008 (2013.01)

Citation (search report)

- [XI] US 2013293618 A1 20131107 - TUNMORE DAVID F [US], et al
- [XI] US 2017341399 A1 20171130 - ARIMIZU HIROSHI [JP], et al
- [X] EP 3763533 A1 20210113 - FRITZ EGGER GMBH & CO OG [AT]
- [X] US 2021031508 A1 20210204 - KACHI YASUHIKO [JP], et al
- [XI] WO 2021008817 A1 20210121 - SCRONA AG [CH]

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4272966 A1 20231108**; WO 2023213828 A1 20231109

DOCDB simple family (application)

**EP 22171794 A 20220505**; EP 2023061579 W 20230502