

Title (en)

METHOD FOR MULTICOLOUR THERMAL DIRECT PRINTING AND PRINTER FOR MULTICOLOR THERMAL DIRECT PRINTING

Title (de)

VERFAHREN ZUM MEHRFARBIGEN THERMODIREKTDUCK UND DRUCKER FÜR MEHRFARBIGEN THERMODIREKTDUCK

Title (fr)

PROCÉDÉ DE THERMIQUE DIRECTE MULTICOLORE ET IMPRIMANTE POUR IMPRESSION THERMIQUE DIRECTE MULTICOLORE

Publication

EP 4023449 A1 20220706 (DE)

Application

EP 20218028 A 20201231

Priority

EP 20218028 A 20201231

Abstract (en)

[origin: US2022203742A1] A method operates a thermal printer to print on thermal paper. A thermo-reactive layer of the paper forms a first color at a first temperature and a second color at a second, higher temperature. The printer has a printhead with heat sources arranged next to one another transversely to a paper path. The heat sources are selectively controllable. The method includes: a transport roller line by line moving the paper past the printhead; and in each line of the paper, heating selected heat sources. At points at which the second color is formed on the paper, a plurality of adjacent heat sources is heated to a printing temperature. At points at which the first color is to be formed on the paper, a portion of a plurality of the adjacent heat sources is heated to the printing temperature, and the other portion of the adjacent heat sources is not heated.

Abstract (de)

Die vorliegende Erfindung betrifft ein Verfahren zum Betrieb eines Thermodirekt-Druckers (30) zum Bedrucken von Thermodirekt-druck-Papier (34), wobei beim Druck in dem Thermodirekt-druck-Papier (34) mehrere Farben ausgebildet werden sowie ein Drucker zum mehrfarbigen Thermodirekt-druck.

IPC 8 full level

B41J 2/335 (2006.01); **B41J 2/325** (2006.01)

CPC (source: EP US)

B41J 2/325 (2013.01 - EP); **B41J 2/335** (2013.01 - US); **B41M 5/34** (2013.01 - US); **B41M 2205/04** (2013.01 - US); **B41M 2205/42** (2013.01 - US)

Citation (applicant)

- EP 1866161 B1 20141022 - ZINK IMAGING INC [US]
- EP 3175993 A1 20170607 - SEIKO EPSON CORP [JP]
- DE 60207488 T2 20060727 - SEIKO EPSON CORP [JP]
- DE 60036515 T2 20080626 - SEIKO EPSON CORP [JP]

Citation (search report)

- [X] WO 2020013820 A1 20200116 - HEWLETT PACKARD DEVELOPMENT CO [US]
- [I] EP 1006000 A1 20000607 - AGFA GEVAERT NV [BE], et al
- [A] ES 2323736 T3 20090723 - SKIDATA AG
- [A] US 5765954 A 19980616 - NUNOKAWA MASAHIKO [JP], et al

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)

EP 4023449 A1 20220706; US 11731446 B2 20230822; US 2022203742 A1 20220630

DOCDB simple family (application)

EP 20218028 A 20201231; US 202117548619 A 20211213