

Title (en)

THERMOELECTRIC PRINTING UNIT FOR TRANSFERRING INK TO A PRINT CARRIER

Title (de)

THERMOELEKTRISCHES DRUCKWERK ZUR ÜBERTRAGUNG EINER TINTE AUF EINEN AUFZEICHNUNGSTRÄGER

Title (fr)

GROUPE IMPRIMANT THERMOELECTRIQUE POUR LE TRANSFERT D'UNE ENCRE SUR UN SUPPORT D'IMPRESSION

Publication

EP 0756544 A1 19970205 (DE)

Application

EP 95901343 A 19941129

Priority

- DE 9401417 W 19941129
- DE 4413680 A 19940420

Abstract (en)

[origin: US5760808A] PCT No. PCT/DE94/01417 Sec. 371 Date Oct. 17, 1996 Sec. 102(e) Date Oct. 17, 1996 PCT Filed Nov. 29, 1994 PCT Pub. No. WO95/29063 PCT Pub. Date Nov. 2, 1995A printing drum (10) contains printing elements (30). These printing elements (30) are each designed as a depression in the surface of the printing drum (10). The printing elements (30) are arranged in the manner of matrix rows. A printing drum (10) has more than one matrix row (33) of printing elements (30). Each printing element (30) contains a selectively activatable heating device (31) which is capable of heating ink (13) contained in the printing element (30), in such a way that, utilizing a gas bubble formed at the same time, the ink is ejected out of the printing element (30) in the direction of a recording medium (14). The printing elements (30) are filled with ink (13) in an inking station (11).

IPC 1-7

B41J 2/005

IPC 8 full level

B41J 2/01 (2006.01); **B41C 1/00** (2006.01); **B41J 2/005** (2006.01); **B41J 2/05** (2006.01); **B41J 2/14** (2006.01)

CPC (source: EP US)

B41C 1/00 (2013.01 - EP US); **B41J 2/005** (2013.01 - EP US); **B41J 2/14161** (2013.01 - EP US)

Citation (search report)

See references of WO 9529063A1

Cited by

US7042476B2; WO0102170A1; DE10244458B4; WO0102171A1

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

US 5760808 A 19980602; DE 59405497 D1 19980423; EP 0756544 A1 19970205; EP 0756544 B1 19980318; JP H09511459 A 19971118; WO 9529063 A1 19951102

DOCDB simple family (application)

US 72741296 A 19961017; DE 59405497 T 19941129; DE 9401417 W 19941129; EP 95901343 A 19941129; JP 52083195 A 19941129