

Title (en)

PRINTING GROUP OF A PRINTING UNIT, CONSISTING OF TWO PRINTING GROUPS WHICH ARE PLACED VERTICALLY ABOVE EACH OTHER, IN A PRINTING MACHINE AND PRINTING UNIT

Title (de)

DRUCKWERK EINER VERTIKAL ÜBEREINANDER MINDESTENS ZWEI DRUCKWERKE AUFWEISENDEN DRUCKEINHEIT EINER DRUCKMASCHINE UND DRUCKEINHEIT

Title (fr)

GROUPE D'IMPRESSION D'UNE UNITE D'IMPRESSION POSSEDANT AU MOINS DEUX GROUPES D'IMPRESSION SITUES VERTICALEMENT L'UN AU-DESSUS DE L'AUTRE DANS UNE PRESSE, ET UNITE D'IMPRESSION

Publication

**EP 1603750 B1 20060726 (DE)**

Application

**EP 04737301 A 20040305**

Priority

- EP 2004050258 W 20040305
- DE 10311285 A 20030314

Abstract (en)

[origin: WO2004080716A1] The invention relates to a printing group of a printing unit, consisting of at least two printing groups which are placed vertically above each other, in a printing machine, comprising a printing cylinder (06) respectively comprising at least one inking roller (33) of an inker unit (27) and a damping roller (34) of a damping system (29) consisting of several rollers (34,37,38) arranged in a successive line and a transfer roller (26) which cooperates with the printing cylinder. The inking cylinder and the damping roller, at least in the operational state thereof when they adjacent to a peripheral surface (07) of the printing cylinder (06), form an obtuse opening angle in a cross-section thereof with the respective centre lines thereof (Z1,Z2) with the printing cylinder. The rollers of the damping system are arranged in such a way that at least the centre points (M34,M38) of at least the first and last roller (34,38) in the roller train of the damping system are arranged inside an acute opening angle departing from the centre point (M26) of the transfer cylinder. A horizontal line (H26) extending through the centre point of the transfer cylinder downwardly defines the opening angle which captures the centre points (M34,38) of the rollers of the damping system, said opening angle being less than 45 DEG . A printing form (06), which is to be mounted on the generated surface (07) of the printing cylinder (06), is fed to the printing cylinder (06) within an obtuse opening angle extending between the damping roller (34) and the inking roller (33).

IPC 8 full level

**B41F 7/12** (2006.01); **B41F 27/12** (2006.01)

CPC (source: EP US)

**B41F 27/1206** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2004080716 A1 20040923**; AT E333991 T1 20060815; CN 100488772 C 20090520; CN 1798653 A 20060705; DE 10311285 A1 20040930; DE 502004001046 D1 20060907; EP 1603750 A1 20051214; EP 1603750 B1 20060726; ES 2267070 T3 20070301; JP 2006520708 A 20060914; JP 4372783 B2 20091125; US 2006174786 A1 20060810; US 7357079 B2 20080415

DOCDB simple family (application)

**EP 2004050258 W 20040305**; AT 04737301 T 20040305; CN 200480006374 A 20040305; DE 10311285 A 20030314; DE 502004001046 T 20040305; EP 04737301 A 20040305; ES 04737301 T 20040305; JP 2006505446 A 20040305; US 54912105 A 20050914