



(11) **EP 2 657 035 A8**

(12) **CORRECTED EUROPEAN PATENT APPLICATION**

(15) Correction information:
Corrected version no 1 (W1 A1)
Corrections, see
Bibliography INID code(s) 30

(51) Int Cl.:
B41J 3/60 (2006.01) B41J 13/22 (2006.01)

(48) Corrigendum issued on:
11.12.2013 Bulletin 2013/50

(43) Date of publication:
30.10.2013 Bulletin 2013/44

(21) Application number: **13001701.5**

(22) Date of filing: **03.04.2013**

(84) Designated Contracting States:
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 States:
BA ME

(30) Priority: **24.04.2012 JP 2012098707**
24.04.2012 JP 2012098722
25.04.2012 JP 2012099561
25.04.2012 JP 2012099565
02.05.2012 JP 2012105257
02.05.2012 JP 2012105382

(71) Applicant: **Komori Corporation**
Sumida-ku
Tokyo (JP)

(72) Inventors:
• **Suda, Hiroyuki**
Yamagata (JP)

- **Murakami, Satoshi**
Tsukuba-shi Ibaraki (JP)
- **Takahagi, Kazuya**
Tokyo (JP)
- **Ito, Masaharu**
Tsukuba-shi Ibaraki (JP)
- **Suzuki, Yasuhiro**
Yamagata (JP)
- **Saita, Atsushi**
Tsukuba-shi Ibaraki (JP)
- **Kondo, Hayato**
Tsukuba-shi Ibaraki (JP)
- **Ishizuka, Yuji**
Ushiku-shi Ibaraki (JP)

(74) Representative: **Samson & Partner**
Widenmayerstrasse 5
80538 München (DE)

(54) **Digital printing apparatus**

(57) This invention discloses a digital printing apparatus including a sheet supply device (2), printing cylinder (33), inkjet nozzle portion (34), sheet delivery device (4), and conveyance devices (36,37,39,31b). The sheet supply device supplies sheets one by one at a predetermined period. The printing cylinder includes at least one gripper device (33a-33c) that grips and holds the sheet, and conveys the sheet while one edge of the sheet supplied from the sheet supply device is held by the plurality of gripper devices. The inkjet nozzle portion discharges ink droplets onto the sheet conveyed by the printing cylinder, and prints on the sheet. The sheet delivery device discharges the sheet after the end of printing by the inkjet nozzle

portion. The conveyance devices (36,37,39,31b) include a plurality of gripper devices including one reversing gripper (31bt) device that grips and holds the other edge of the sheet, convey the sheet printed on one surface, which is received from the printing cylinder in a double-sided printing mode, while sequentially transferring the sheet by gripping changes by the plurality of gripper devices, and supply to the printing cylinder (33) the sheet turned by reversing the obverse/reverse surface of the sheet by the reversing gripper device in the process of conveyance.

EP 2 657 035 A8

FIG.1

