

Title (en)
Ink Cartridge and inkjet recording apparatus

Title (de)
Tintenpatrone und Tintenstrahlaufzeichnungsgerät

Title (fr)
Cartouche d'encre et appareil d'enregistrement à jet d'encre

Publication
EP 1772271 A2 20070411 (EN)

Application
EP 06012970 A 20060623

Priority

- JP 2005284646 A 20050929
- JP 2005342697 A 20051128
- JP 2005377987 A 20051228
- JP 2006064974 A 20060309
- JP 2006081806 A 20060323

Abstract (en)
An ink cartridge having an ink storage chamber for storing ink provided therein, the ink cartridge being mountable to an inkjet recording apparatus, comprising a door disposed on of an accommodating chamber defining a space for accommodating the ink cartridge and allowing the ink cartridge to be mounted thereto in the horizontal direction through a first opening and configured to be rotated about the lower side of the storage section as an axis of rotation for opening and closing the first opening and closing the first opening when it takes an upright posture; and a pressing member provided on the door for pressing a back surface of the ink cartridge inserted into the accommodating chamber by a resilient force, the ink cartridge comprising: an ink supply part provided on a front side surface being defined in a mounting direction when the ink cartridge is in a mounted posture, which is a posture when the ink cartridge is mounted to the accommodating chamber, and having a second opening for allowing entering of an extracting member of the inkjet recording apparatus when being mounted to the inkjet recording apparatus; a valve mechanism for opening and closing the second opening of the ink supply part; and a pressed portion provided on a back surface at the rear side in the mounting direction when the ink cartridge is in the mounting posture and configured to be pressed by the pressing member; the valve mechanism comprising: a supply valve member for opening and closing the second opening of the ink supply part and a supply urging member for urging the supply valve member to a direction of closing the second opening of the ink supply section, wherein the urging force of the supply urging member is adapted to be smaller than the resilient force of the pressing member for pressing the pressed portion.

IPC 8 full level
B41J 2/175 (2006.01)

CPC (source: EP)
B41J 2/17509 (2013.01); **B41J 2/17513** (2013.01); **B41J 2/1752** (2013.01); **B41J 2/17553** (2013.01); **B41J 2/17596** (2013.01)

Citation (applicant)

- JP 2003025608 A 20030129 - HEWLETT PACKARD CO
- JP 2004291246 A 20041021 - SEIKO EPSON CORP

Cited by
EP2447079A3; CN102815093A; EP2479034A4; EP2447078A1; CN102658723A; EP2105305A3; EP2197682A4; US8567932B2; US8752941B2; US8177343B2; US8317307B2; US7416291B1; US7419254B1; US7416290B2; US8025379B2; TWI630122B; US8926073B2; US9358795B2; US9505223B2; US9878551B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1772271 A2 20070411; **EP 1772271 A3 20070516**; **EP 1772271 B1 20080813**; AT E404373 T1 20080815; DE 602006002212 D1 20080925; WO 2007037548 A1 20070405; WO 2007037548 A9 20070531

DOCDB simple family (application)
EP 06012970 A 20060623; AT 06012970 T 20060623; DE 602006002212 T 20060623; JP 2006320033 W 20060929