

Title (en)

Ink cartridge with light-receiving and light-blocking portion

Title (de)

Tintenpatrone mit lichtempfangendem und lichtblockierendem Teil

Title (fr)

Cartouche d'encre avec partie recevant et bloquant la lumière

Publication

EP 1772276 B1 20080917 (EN)

Application

EP 06013004 A 20060623

Priority

- JP 2005284646 A 20050929
- JP 2005342697 A 20051128
- JP 2005377987 A 20051228
- JP 2006064866 A 20060309
- JP 2006081806 A 20060323

Abstract (en)

[origin: EP1772276A2] An ink cartridge (14) for being mounted in the ink-jet recording apparatus (1) comprising: an ink chamber (111) accommodating ink; a front wall (210b, 220b) that serves as a front-end wall; a bottom wall (210a); an ink supply part (120) provided at the front wall (210b, 220b), an ink supply opening (600) being formed in the ink supply part (120); an ink supply path located in rear of the ink supply opening (600), the ink supply path communicating the ink supply opening (600) and the ink chamber (111); a valve mechanism (500) provided in the ink supply path and capable of opening and closing the ink supply path; a light-receiving part (141) provided at the front wall (210b, 220b) and above the ink supply part (120), an inner space being formed in the light receiving part (141) to communicate with the ink chamber (111), and a pivot member (470) including: a light-blocking portion (473c) provided at one end of the pivot member (470) and located in the inner space of the light receiving part (141); a float (471) provided at the other end of the pivot member (470) and movable in response to a change in an amount of ink in the ink chamber (111); and a pivot center provided between the light-blocking portion (473c) and the float (471), the pivot center being located in rear of the ink supply path, the pivot member (470) being pivotable around the pivot center in response to the change in an amount of ink in the ink chamber (111).

IPC 8 full level

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