

Title (en)

INK SUPPLYING DEVICE AND INK JET RECORDING APPARATUS USING THE SAME

Publication

EP 0442485 A3 19911023 (EN)

Application

EP 91102045 A 19910213

Priority

- JP 1993991 A 19910213
- JP 3170490 A 19900213
- JP 3171590 A 19900213
- JP 3173190 A 19900213
- JP 3173590 A 19900213

Abstract (en)

[origin: EP0442485A2] An ink cartridge adapted to be loaded detachably to an ink jet recording apparatus for preforming a recording on a recording medium by discharging ink comprises an ink tank for accommodating ink therein, leading-out means for leading out ink within said ink tank to the outside, said leading-out means being provided on said ink tank, and a frame for supporting displaceably said ink tank on which said leading-out means is provided. Also, an ink jet recording apparatus for preforming a recording on a recording medium (1) comprises a recording head (38) for discharging ink from a discharge port to carry out the recording on the recording medium (1), a loading part for loading therein an ink cartridge, said loading part having an ink tank for accommodating ink therein, leading-out means for leading out ink within said ink tank to the outside, said leading-out means being provided on said ink tank and a frame for supporting displaceably said ink tank on which said leading-out means is provided, and ink supplying means (G) for supplying ink to said recording head (38) by coupling to the lead-out means of said ink cartridge which is loaded in said loading part. <IMAGE> <IMAGE>

IPC 1-7

B41J 2/175

IPC 8 full level

B41J 2/165 (2006.01); **B41J 2/175** (2006.01)

CPC (source: EP)

B41J 2/16523 (2013.01); **B41J 2/16585** (2013.01); **B41J 2/17513** (2013.01); **B41J 2/1752** (2013.01)

Citation (search report)

- [A] EP 0320165 A1 19890614 - HEWLETT PACKARD CO [US]
- [A] DE 3220939 A1 19830105 - CANON KK [JP]
- [A] DE 3316969 A1 19831110 - CANON KK [JP]
- [A] DE 3420050 A1 19841206 - CANON KK [JP]
- PATENT ABSTRACTS OF JAPAN, Vol. 3, No. 159 (E-162), 27 December 1979; & JP,A,54 139 533 (RICOH K.K.) 30.10.1979, the whole document.
- PATENT ABSTRACTS OF JAPAN, Vol. 3, No. 159 (E-162), 27 December 1979; & JP,A,54 139 530 (RICOH K.K.) 30.10.1979, the whole document.

Cited by

DE19849567A1; DE19849567B4; US5523780A; US5877793A; US6164766A; DE4425694A1; DE4425694C2

Designated contracting state (EPC)

BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)

EP 0442485 A2 19910821; **EP 0442485 A3 19911023**; **EP 0442485 B1 19961009**; DE 69122523 D1 19961114; DE 69122523 T2 19970227; DE 69130429 D1 19981203; DE 69130429 T2 19990527; EP 0684139 A1 19951129; EP 0684139 B1 19981028

DOCDB simple family (application)

EP 91102045 A 19910213; DE 69122523 T 19910213; DE 69130429 T 19910213; EP 95110640 A 19910213