

Title (en)
Ink cartridge

Title (de)
Tintenpatrone

Title (fr)
Cartouche d'encre

Publication
EP 1839871 A1 20071003 (EN)

Application
EP 06012967 A 20060623

Priority
JP 2006095663 A 20060330

Abstract (en)
PROBLEM: To reduce the delay due to bubbles formed inside the ink tank until the remaining quantity of ink can be accurately detected. MEANS FOR SOLVING: A diffusion surface (474) on which small irregularities are formed so as to generate a capillary force is provided on a portion of the surface of a sensor arm which is provided inside the ink tank where ink is stored and which moves along a set displacement path as the ink stored inside the ink tank decreases. The diffusion surface (474) consists of a base surface (474a) and a plurality of projecting parts (474b) projecting from the base surface. The base surface and projecting parts are connected at an angle so as to form corner parts (474c). Furthermore, the capillary force generating areas formed between adjacent projecting parts are linked to other capillary force generating areas.

IPC 8 full level
B41J 2/175 (2006.01)

CPC (source: EP)
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B41J 2002/17576 (2013.01)

Citation (search report)
• [A] EP 1520706 A2 20050406 - BROTHER IND LTD [JP]
• [X] EP 1097814 A2 20010509 - SEIKO EPSON CORP [JP]

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FR2961433A1; FR2961431A1; FR2961434A1; FR2961435A1; EP2233298A1; CN101844453A; US8210639B2; US8038275B2; US8449091B2; US8246139B2; EP2103434A1; FR2961430A1; FR2961432A1; EP2179849A1; EP2165838A3; EP2039521A1; EP2147793A1; EP2335928A1; EP2335929A1; US8052261B2; US8197044B2; US8172383B2; US8182077B2; US8172382B2; US8534813B2; EP2095962A1; EP2311641A1; EP2397337A1; CN102285239A; EP2174788A1; EP2147796A3; EP2161135A3; EP2279871A3; EP2039519A1; EP2039520A1; US8025379B2; US7530680B2; US7562972B2; US8025378B2; US8079689B2; US8096646B2; US8182060B2; EP2147797A3; EP2161134A3; EP2279869A3; EP2279870A3; EP2433801A3; EP2433802A3; EP3075545A1; EP3075546A1; EP3205505A1; EP3205506A1; EP2045079A1; EP2335929B1

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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

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EP 1839871 A1 20071003; EP 1839871 B1 20090114; AT E420770 T1 20090115; CN 101258034 A 20080903; CN 101258034 B 20101222; DE 602006004843 D1 20090305; JP 2007268793 A 20071018; JP 4400590 B2 20100120; WO 2007116546 A1 20071018

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