

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)  
**B41J 2/17513** (2013.01); **B41J 2/1752** (2013.01); **B41J 2/17553** (2013.01); **B41J 2/17566** (2013.01); **B41J 2/19** (2013.01);  
**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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FR2961431A1; FR2961433A1; FR2961434A1; FR2961435A1; EP2147793A1; EP2335928A1; EP2335929A1; EP2103434A1; FR2961430A1; FR2961432A1; EP2233298A1; CN101844453A; EP2179849A1; EP2165838A3; EP2039521A1; EP2095962A1; EP2311641A1; EP2397337A1; CN102285239A; US8210639B2; US8246139B2; US8038275B2; US8449091B2; EP2174788A1; EP2147796A3; EP2161135A3; EP2279871A3; EP2039519A1; EP2039520A1; US8172383B2; US8182077B2; US8172382B2; US8534813B2; US8052261B2; US8197044B2; US8025379B2; US7530680B2; US7562972B2; EP2147797A3; EP2161134A3; EP2279869A3; EP2279870A3; EP2433801A3; EP2433802A3; EP3075545A1; EP3075546A1; EP3205505A1; EP3205506A1; EP2045079A1; US8025378B2; US8079689B2; US8096646B2; US8182060B2; 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

DOCDB simple family (publication)  
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