

Title (en)  
Liquid cartridge and image recording device

Title (de)  
Flüssigkeitskartusche und Bildaufzeichnungsvorrichtung

Title (fr)  
Cartouche liquide et dispositif d'enregistrement d'images

Publication  
**EP 2551115 A1 20130130 (EN)**

Application  
**EP 11175661 A 20110727**

Priority  
EP 11175661 A 20110727

Abstract (en)  
A liquid cartridge for a line head printer is provided comprising a casing comprising an outer surface and a liquid reservoir disposed in the casing and configured to store more than 100 Milliliter liquid therein and a liquid flow path is configured to place the liquid reservoir in fluid communication with an exterior of the liquid cartridge on the outer surface of the casing and a sensor configured to detect a first and a second position of a movable member and configured to output a signal in relation to the first and second position of the movable member and a storage configured to store data and a substrate disposed on the outer surface of the casing and on which a plurality of terminals are disposed. The plurality of terminals comprises a sensor terminal connected to the sensor and a data terminal connected to the storage and a power terminal connected to at least one of the sensor and the storage. The distance between the power terminal and the data terminal is greater than a distance between the power terminal and the sensor terminal. The liquid cartridge therefore provides an improved electrical overall robustness in respect of electrical short circuits.

IPC 8 full level  
**B41J 2/175** (2006.01)

CPC (source: EP)  
**B41J 2/17513** (2013.01); **B41J 2/1753** (2013.01); **B41J 2/17546** (2013.01); **B41J 2/17553** (2013.01)

Citation (applicant)  
JP 2007196664 A 20070809 - SEIKO EPSON CORP [JP]

Citation (search report)  
• [I] EP 1619030 A2 20060125 - SEIKO EPSON CORP [JP]  
• [I] EP 2080622 A1 20090722 - SEIKO EPSON CORP [JP]  
• [I] EP 2105306 A2 20090930 - SEIKO EPSON CORP [JP]  
• [I] GB 2312283 A 19971022 - HEWLETT PACKARD CO [US]  
• [I] EP 1495872 A2 20050112 - BROTHER IND LTD [JP]  
• [I] EP 1153752 A2 20011114 - CANON KK [JP]  
• [A] EP 0571093 A2 19931124 - HEWLETT PACKARD CO [US]  
• [A] EP 0412459 A2 19910213 - CANON KK [JP]  
• [A] EP 0440261 A2 19910807 - CANON KK [JP]  
• [A] EP 0997297 A1 20000503 - SEIKO EPSON CORP [JP]  
• [A] US 5411343 A 19950502 - CHILDERS WINTHROP D [US]  
• [A] US 5646660 A 19970708 - MURRAY RICHARD A [US]  
• [E] WO 2011093527 A1 20110804 - BROTHER IND LTD [JP], et al

Cited by  
JP2020104440A

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2551115 A1 20130130; EP 2551115 B1 20140910**

DOCDB simple family (application)  
**EP 11175661 A 20110727**