

Title (en)  
LIQUID CARTRIDGE

Title (de)  
FLÜSSIGKEITSKARTUSCHE

Title (fr)  
CARTOUCHE DE LIQUIDE

Publication  
**EP 3453534 A1 20190313 (EN)**

Application  
**EP 18201929 A 20150701**

Priority  
• EP 18201929 A 20150701  
• EP 15174873 A 20150701

Abstract (en)  
A liquid cartridge (30), comprising a front surface (140), an upper surface (39,141) facing an upward direction (54) when the liquid cartridge (30) is installed in a liquid consuming apparatus, a liquid outlet portion (34) facing a first direction (51) at the front surface(140), a circuit board (64) disposed on the upper surface (39,141) and a liquid detection portion (60) for detecting a state of liquid stored in the liquid cartridge (30), wherein the liquid detection portion (60) comprises a light access portion (62) configured to be accessed with light traveling from a first point toward a second point, wherein the light access portion (62) is disposed above the circuit board (64) in the upward direction (54).

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

CPC (source: EP)  
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**B41J 2002/17573** (2013.01); **B41J 2002/17576** (2013.01)

Citation (applicant)  
• JP 2014019130 A 20140203 - SEIKO EPSON CORP  
• JP 2013049165 A 20130314 - BROTHER IND LTD  
• JP 2005313447 A 20051110 - SEIKO EPSON CORP

Citation (search report)  
• [IY] US 2011234658 A1 20110929 - NOZAWA IZUMI [JP]  
• [Y] EP 2607082 A1 20130626 - BROTHER IND LTD [JP]  
• [Y] JP 2010023458 A 20100204 - CANON KK

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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EP 3702162 B1 20211124; EP 3978255 A1 20220406; EP 3978255 B1 20240529; ES 2693527 T3 20181212; ES 2787036 T3 20201014;  
ES 2900591 T3 20220317; PL 3112164 T3 20190731

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