

Title (en)
LIQUID CARTRIDGE

Title (de)
FLÜSSIGKEITSKARTUSCHE

Title (fr)
CARTOUCHE DE LIQUIDE

Publication
EP 3702162 A1 20200902 (EN)

Application
EP 20169427 A 20150701

Priority

- EP 20169427 A 20150701
- 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). The liquid detection portion (60) may further comprise a light attenuating portion configured to totally reflect the light to attenuate the light, and to change a state of the light passing through the light access portion (62) depending on whether or not an amount of the liquid stored in the liquid cartridge (30) is less than a particular amount.

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B41J 2/175 (2006.01)

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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)

- [A] US 2011234658 A1 20110929 - NOZAWA IZUMI [JP]
- [A] EP 2607082 A1 20130626 - BROTHER IND LTD [JP]
- [A] JP 2010023458 A 20100204 - CANON KK

Designated contracting state (EPC)
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DOCDB simple family (publication)
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