

Title (en)

Liquid ejecting apparatus and liquid ejecting system

Title (de)

Flüssigkeitsausstoßvorrichtung und Flüssigkeitsausstoßsystem

Title (fr)

Procédé d'éjection de liquide et système d'éjection de liquide

Publication

EP 2165837 A1 20100324 (EN)

Application

EP 09170461 A 20090916

Priority

JP 2008240588 A 20080919

Abstract (en)

A liquid ejecting apparatus (100) includes a mounting portion (300) configured to move and a liquid cartridge (10) including a liquid chamber (11) and a movable member (90), an optical detector fixed to the mounting portion (300) and having a light emitter (342B) and a light receiver (342C), and a state determiner (400) configured to determine a change in a state of the light receiver (342C). The movable member (90) is configured to move according to a position of a surface of liquid stored in the liquid chamber (11). The light receiver (342C) is configured to assume two predetermined states according to a position of a portion of the movable member (90) in the liquid chamber (11). The state determiner (400) determines that the liquid cartridge (10) is normal or abnormal according to the change in the state of the light receiver (342C).

IPC 8 full level

B41J 2/175 (2006.01)

CPC (source: EP)

B41J 2/17566 (2013.01); **B41J 2002/17573** (2013.01)

Citation (applicant)

JP 2005125738 A 20050519 - BROTHER IND LTD

Citation (search report)

- [IA] JP 2005125738 A 20050519 - BROTHER IND LTD
- [IP] US 2009219310 A1 20090903 - KONDO HIROFUMI [JP]
- [A] EP 1839872 A1 20071003 - BROTHER IND LTD [JP]

Cited by

CN102285232A; CN107073985A; CN104417070A; US11214072B2; US10308015B2; WO2016122543A1; US9676200B2; US10696056B2; US9809032B2; US10752001B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 2165837 A1 20100324; **EP 2165837 B1 20140430**; JP 2010069757 A 20100402; JP 5266999 B2 20130821

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