

Title (en)

Printing fluid cartridge, printing apparatus, and use of printing fluid cartridge

Title (de)

Druckflüssigkeitspatrone, Druckvorrichtung und Verwendung der Druckflüssigkeitspatrone

Title (fr)

Cartouche de liquide d'impression, appareil d'impression et utilisation de la cartouche de liquide d'impression

Publication

**EP 2607082 B2 20220615 (EN)**

Application

**EP 11195247 A 20111222**

Priority

EP 11195247 A 20111222

Abstract (en)

[origin: EP2607082A1] A printing fluid cartridge is configured to be mounted to a cartridge mounting portion including an optical sensor and at least one contact. The printing fluid cartridge includes at least one electrical interface configured to be electrically connected to the at least one contact, and a light attenuating portion configured to be inserted between a light emitter and a light receiver of the optical sensor and to be detected by the optical sensor.

IPC 8 full level

**B41J 2/175** (2006.01)

CPC (source: EP)

**B41J 2/17513** (2013.01); **B41J 2/1752** (2013.01); **B41J 2/17523** (2013.01); **B41J 2/17526** (2013.01); **B41J 2/1753** (2013.01); **B41J 2/17546** (2013.01); **B41J 2/17553** (2013.01); **B41J 2/17566** (2013.01)

Citation (opposition)

Opponent :

- EP 1348559 A2 20031001 - SEIKO EPSON CORP [JP]
- OHIM Design 001831512-0002 of 07/03/2011

Cited by

US9802419B2; US9738083B2; CN107960066A; CN104015494A; JP2016185652A; US2016279959A1; EP3112167A1; EP3300902A1; CN107878036A; EP3112168A1; EP3613596A1; EP3112165A1; EP3674091A1; US9724928B2; EP3112163A1; EP3623160A1; EP3112166A1; EP3556564A1; US10232631B2; US10022974B2; US10688795B2; US10549540B2; EP3112162A1; EP3560720A1; EP3785920A1; EP4039480A1; EP3112164A1; EP3453534A1; EP3702162A1; EP3978255A1; US9815288B2; US10081192B2; US10399345B2; US10618294B2; US9656472B2; US10226935B2; US10759177B2; US11453221B2; DE202013007283U1; DE102014101162A1; US9550366B2; US9862200B2; US10239322B2; US10596819B2; US10960676B2; US11685162B2; US12017461B2

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

DOCDB simple family (publication)

**EP 2607082 A1 20130626**; **EP 2607082 B1 20141001**; **EP 2607082 B2 20220615**; DK 2607082 T3 20141117; DK 2607082 T4 20220829; DK 2805827 T3 20190812; EP 2805827 A2 20141126; EP 2805827 A3 20160525; EP 2805827 B1 20190515; EP 2910379 A2 20150826; EP 2910379 A3 20160608; EP 2910379 B1 20190904; EP 3597437 A1 20200122; EP 3597437 B1 20210818; EP 3925782 A1 20211222; EP 3925782 B1 20240417; ES 2512816 T3 20141024; ES 2512816 T5 20221004; ES 2728525 T3 20191025; ES 2746268 T3 20200305; HU E044570 T2 20191128; PL 2607082 T3 20150130; PL 2607082 T5 20230109; PL 2805827 T3 20191129

DOCDB simple family (application)

**EP 11195247 A 20111222**; DK 11195247 T 20111222; EP 14181697 A 20111222; EP 15161569 A 20111222; EP 19192545 A 20111222; EP 21184304 A 20111222; ES 11195247 T 20111222; ES 14181697 T 20111222; ES 15161569 T 20111222; HU E14181697 A 20111222; PL 11195247 T 20111222; PL 14181697 T 20111222