

Title (en)  
INK CARTRIDGE FILLING APPARATUS

Title (de)  
FÜLLVORRICHTUNG FÜR EINE TINTENPATRONE

Title (fr)  
APPAREIL DE REMPLISSAGE DE CARTOUCHE D'ENCRE

Publication  
**EP 2570265 A1 20130320 (EN)**

Application  
**EP 11780084 A 20110330**

Priority  
• CN 201020194178 U 20100512  
• CN 2011072309 W 20110330

Abstract (en)  
The present invention provides an ink cartridge refilling device, which comprises an ink container, an air inlet channel and a suction channel, wherein the ink container is used for storing ink to be refilled into an ink cartridge; an ink injection channel communicated with an ink injection opening of the ink cartridge is formed on the ink container; the air inlet channel is communicated with the ink container and used for introducing outside air into the ink container; and the suction channel is communicated with the ink cartridge and connected with an aspirator to suck air in the ink cartridge. The ink cartridge refilling device also comprises a re-suction channel which is communicated with an ink outlet of the ink cartridge and connected with the aspirator to suck ink at the ink outlet after the ink cartridge is fully refilled. The ink cartridge refilling device has the advantage that: air bubbles can be prevented from being attached to the upper part of a piezoelectric transducer near the ink outlet, and then the phenomenon that a user cannot print as the ink cartridge after refilling cannot be identified when installed on a printer can be avoided.

IPC 8 full level  
**B41J 2/175** (2006.01); **B41J 2/19** (2006.01); **B65B 3/22** (2006.01)

CPC (source: EP US)  
**B41J 2/17506** (2013.01 - EP US); **B41J 2/17546** (2013.01 - EP US); **B41J 2/17566** (2013.01 - EP US); **B41J 2/19** (2013.01 - EP US); **B65B 3/22** (2013.01 - US); **B41J 2002/17583** (2013.01 - EP US)

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 2570265 A1 20130320**; **EP 2570265 A4 20131023**; **EP 2570265 B1 20140903**; CN 201685529 U 20101229; JP 2013526428 A 20130624; JP 5503802 B2 20140528; US 2013061982 A1 20130314; WO 2011140862 A1 20111117

DOCDB simple family (application)  
**EP 11780084 A 20110330**; CN 201020194178 U 20100512; CN 2011072309 W 20110330; JP 2013509433 A 20110330; US 201213674877 A 20121112