

Title (en)
INK CARTRIDGE FOR INKJET PRINTER

Title (de)
TINTENKARTUSCHE FÜR EINEN TINTENSTRAHLDRUCKER

Title (fr)
CARTOUCHE D'ENCRE POUR IMPRIMANTE À JET D'ENCRE

Publication
EP 2524810 A1 20121121 (EN)

Application
EP 10826122 A 20101221

Priority
• CN 200910110371 A 20091030
• CN 2010080052 W 20101221

Abstract (en)
The invention relates to an ink cartridge for an ink jet printer. The ink cartridge comprises a cartridge body and a detection mechanism for detecting the ink cartridge and residual quantity of ink, wherein the cartridge body comprises an ink tank for storing ink, an ink outlet for supplying ink to a printing head of the printer and an air inlet, the ink tank comprises a first ink chamber and a second ink chamber, a first negative pressure mechanism and a second negative pressure mechanism are arranged between the first ink chamber and the second cavity, the first negative pressure mechanism and the second negative pressure mechanism cooperatively control the ink inside the first ink chamber to be consumed preferentially than the ink inside the second ink chamber, and the second negative pressure mechanism generates negative pressure when a certain quantity of ink inside the ink tank is used for printing. Since negative pressure inside the ink tank is not generated until the used ink inside the ink tank reaches a certain quantity, i.e., negative pressure is generated only in case that the residual quantity of ink is small in the end, the technical problem that constant negative pressure in the process of using the ink cartridge leads to the damage and deformation of the parts inside the ink cartridge which impact on the quality of printing can be avoided.

IPC 8 full level
B41J 2/175 (2006.01)

CPC (source: EP)
B41J 2/17513 (2013.01); **B41J 2/17523** (2013.01); **B41J 2/17553** (2013.01)

Citation (search report)
See references of WO 2011050759A1

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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)
DE 202010001340 U1 20100408; CN 101693424 A 20100414; CN 101693424 B 20120718; EP 2524810 A1 20121121;
WO 2011050759 A1 20110505

DOCDB simple family (application)
DE 202010001340 U 20100118; CN 200910110371 A 20091030; CN 2010080052 W 20101221; EP 10826122 A 20101221