Title (en)
INK CARTRIDGE CHIP AND INK CARTRIDGE USING CHIP

Title (de)
TINTENPATRONENCHIP UND TINTENPATRONE MIT DEM CHIP

Title (fr)
PUCE DE CARTOUCHE D'ENCRE ET CARTOUCHE D'ENCRE UTILISANT LA PUCE

Publication
EP 3090876 A4 20171220 (EN)

Application
EP 14878412 A 20141217

Priority
• CN 201410019068 A 20140115
• CN 2014094139 W 20141217

Abstract (en)
[origin: EP3090876A1] Disclosed is an ink cartridge chip 10, comprising: a communication interface unit 11, used for communicating with an imaging device mounted with an ink cartridge, so as to receive or transmit ink level information in a first format; a data conversion unit 13, used for converting the ink level information in the first format received into ink level information in a second format, wherein the second format comprises more bits therein than the first format; and a storage unit 12, used for saving the ink level information in the second format, wherein when it is necessary for the imaging device to read ink level information of the ink cartridge chip 10, the data conversion unit 13 is further used for restoring the ink level information in the second format as stored in the storage unit to the first format. Because ink level information stored in the storage unit 12 has more bits than the information received from the imaging device, an illegal device will not be able to obtain actual ink level information while reading the storage unit 12, thereby effectively ensuring data security of the ink cartridge chip 10.

IPC 8 full level
B41J 2/175 (2006.01); **H04L 9/28** (2006.01)

CPC (source: EP)
B41J 2/17546 (2013.01)

Citation (search report)
• [X] US 2011176175 A1 20110721 - PANSHIN STEPHEN D [US], et al
• See references of WO 2015106616A1

Designated contracting state (EPC)
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EP 3090876 A1 20161109; **EP 3090876 A4 20171220**; **EP 3090876 B1 20181205**; CN 103862879 A 20140618; CN 103862879 B 20160817; JP 2016535868 A 20161117; JP 6248354 B2 20171220; WO 2015106616 A1 20150723

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