

Title (en)  
FLUIDICALLY DAMPED PRINTHEAD

Title (de)  
DRUCKKOPF MIT FLUIDDÄMPFUNG

Title (fr)  
TÊTE D'IMPRESSION À AMORTISSEMENT FLUIDIQUE

Publication  
**EP 2129527 A4 20130320 (EN)**

Application  
**EP 07718588 A 20070321**

Priority  
AU 2007000341 W 20070321

Abstract (en)  
[origin: WO2008113094A1] A printhead for an inkjet printer that has a printhead integrated circuit (68) with nozzles for ejecting ink, and a support structure (64, 176, 108) for supporting the printhead IC. The support structure has ink conduits (182) for supplying the nozzles with ink and a fluidic damper (200) containing gas for compression by pressure pulses in the ink within the ink conduits to dissipate the pressure pulse. Damping pressure pulses using gas compression can be achieved with small volumes of gas. This preserves a compact design while avoiding any nozzle flooding from transient spikes in the ink pressure.

IPC 8 full level  
**B41J 2/175** (2006.01); **B41J 2/045** (2006.01); **B41J 2/155** (2006.01)

CPC (source: EP KR)  
**B41J 2/045** (2013.01 - KR); **B41J 2/055** (2013.01 - EP); **B41J 2/14** (2013.01 - EP); **B41J 2/155** (2013.01 - EP); **B41J 2/1707** (2013.01 - EP); **B41J 2/175** (2013.01 - KR); **B41J 2002/14362** (2013.01 - EP); **B41J 2002/14419** (2013.01 - EP); **B41J 2002/14491** (2013.01 - EP)

Citation (search report)

- [X] EP 1078760 A2 20010228 - CANON KK [JP]
- [X] US 5969736 A 19991019 - FIELD LESLIE A [US], et al
- [X] EP 1362703 A2 20031119 - CANON KK [JP]
- [X] EP 1184183 A2 20020306 - CANON KK [JP]
- See references of WO 2008113094A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2008113094 A1 20080925**; EP 2129527 A1 20091209; EP 2129527 A4 20130320; EP 2129527 B1 20140507; JP 2010521343 A 20100624; JP 5214635 B2 20130619; KR 101108841 B1 20120208; KR 20100005087 A 20100113; TW 200838707 A 20081001; TW 200838708 A 20081001; TW 200838709 A 20081001; TW 200838710 A 20081001; TW I391255 B 20130401; TW I402178 B 20130721; TW I406771 B 20130901; TW I424930 B 20140201

DOCDB simple family (application)  
**AU 2007000341 W 20070321**; EP 07718588 A 20070321; JP 2009553864 A 20070321; KR 20097021784 A 20070321; TW 96127766 A 20070730; TW 96127767 A 20070730; TW 96127768 A 20070730; TW 96127769 A 20070730