

Title (en)

INK PRESSURE REGULATOR WITH BUBBLE POINT PRESSURE REGULATION

Title (de)

TINTENDRUCKREGLER MIT BLASENPUNKTDRUCKREGELUNG

Title (fr)

RÉGULATEUR DE PRESSION D'ENCRE POUVANT RÉGULER LA PRESSION AU POINT DE BULLE

Publication

EP 2043868 A4 20100526 (EN)

Application

EP 07718922 A 20070521

Priority

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- US 48297806 A 20060710
- US 64035906 A 20061218

Abstract (en)

[origin: WO2008006139A1] An ink pressure regulator for regulating a hydrostatic pressure of ink supplied to an inkjet printhead, said regulator comprising: an ink chamber having an ink outlet for fluid communication with the printhead via an ink line; an air inlet open to atmosphere; a bubble outlet for bubbling air bubbles into the chamber, each air bubble comprising an air cavity trapped inside a film or a body of ink; and an air channel connecting the air inlet and the bubble outlet, wherein said bubble outlet is dimensioned to control a Laplace pressure of air bubbles drawn into said chamber as result of supplying ink to the printhead, thereby regulating a hydrostatic pressure of the ink.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [XII] US 5760806 A 19980602 - ODA KAZUYUKI [JP], et al
- [XII] US 5526030 A 19960611 - BALDWIN MARC A [US], et al
- [X] US 2004080590 A1 20040429 - JUNG MYUNG-SONG [KR], et al
- [A] US 5113199 A 19920512 - CHAN C S [US], et al
- [A] US 6000790 A 19991214 - TAKAGI JUN [JP], et al
- [A] US 2003025773 A1 20030206 - KOIZUMI YUTAKA [JP], et al
- [XP] WO 2007050172 A1 20070503 - HEWLETT PACKARD DEVELOPMENT CO [US], et al
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