

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

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Application
EP 07718922 A 20070521

Priority

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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.

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