

Title (en)
Ink cartridge with a pressure adjusting device

Title (de)
Tintenpatrone mit Druckeinstellungsvorrichtung

Title (fr)
Cartouche d'encre munie d'un dispositif pour régler la pression

Publication
EP 1291184 A1 20030312 (EN)

Application
EP 01121393 A 20010906

Priority
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Abstract (en)
An ink cartridge (11) has a housing (10) with an ink reservoir (20). The housing has a first vent (30), a second vent (50) and an opening (16). The ink reservoir has an air bag (32) to adjust pressure within the ink reservoir. The ink cartridge further has an elastic restricting device (34) that prevents ink in the ink reservoir from seeping through the opening. An elastic plug plugs the second vent of the housing, and an active shaft is movably installed in the well for pushing the elastic plug. When consumption of ink causes the air bag to expand to a predetermined degree, the air bag moves the active shaft (40), the active shaft pushes the elastic plug, and air enters into the ink reservoir through the second vent to reduce the volume of the air bag. When the air bag stops moving the active shaft, the elastic plug plugs the second vent. <IMAGE>

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B41J 2/175

IPC 8 full level
B41J 2/175 (2006.01)

CPC (source: EP)
B41J 2/17556 (2013.01)

Citation (applicant)
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