

Title (en)  
Ink storage container

Title (de)  
Tintenaufbewahrungsbehälter

Title (fr)  
Récipient de stockage d'encre

Publication  
**EP 2060397 A1 20090520 (EN)**

Application  
**EP 08163315 A 20080829**

Priority  
JP 2007294998 A 20071114

Abstract (en)  
An ink storage container having a simply configured ink exchange function is provided, whereby the amount of stored ink is increased. An air flow control unit for controlling the flow of air between the inside and outside is disposed in an ink storage unit for storing ink. The air flow control unit includes: a valve element that is formed of an interconnected porous material and allows air to be exchanged between the inside and outside of the ink storage unit according to positive and negative changes in the internal pressure of the ink storage unit; and a liquid repellent membrane that has air permeability and liquid repellency and is disposed on an ink side of the valve element.

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

CPC (source: EP)  
**B41J 2/17513** (2013.01); **B41J 2/17556** (2013.01)

Citation (applicant)  
• JP 2001277777 A 20011010 - PENTEL KK  
• JP H08187874 A 19960723 - CANON KK

Citation (search report)  
• [X] EP 0631875 A2 19950104 - HEWLETT PACKARD CO [US]  
• [X] EP 1839878 A2 20071003 - SEIKO EPSON CORP [JP]  
• [X] US 2003128261 A1 20030710 - USUI MINORU [JP], et al  
• [X] US 2004135854 A1 20040715 - KUWABARA NOBUYUKI [JP], et al  
• [X] US 2004012648 A1 20040122 - MIZOGUCHI YOSHITO [JP], et al  
• [PX] WO 2008006139 A1 20080117 - SILVERBROOK RES PTY LTD [AU], et al  
• [A] US 5113199 A 19920512 - CHAN C S [US], et al

Cited by  
EP2987640A1; GB2542007A; GB2542007B; US10136674B2; US10285449B2; US10091839B2; US11085550B2; US10070662B2; US10130119B2; US10201181B2; US10219538B2; US10285430B2; US10588176B2; US2017042236A1; US10081531B2; US10099916B2; US10131532B2; US10138113B2; US10202274B2; US10202273B2; US10202272B2; US10207914B2; US10266388B2; US10287154B2; US10287155B2; US10472226B2; US11571019B2; US9393796B2; US9393801B2; US10045566B2; US10045565B2; US10149497B2; US10624394B2; US10631577B2; US10638796B2; US10681938B2; US10687559B2; US10687560B2; US10694786B2; US10701984B2; US10716334B2; US10721972B2; US10750789B2; US10806189B2; US11083228B2; US11253006B2; US11690408B2; US11751609B2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**EP 2060397 A1 20090520; EP 2060397 B1 20101020**; AT E485167 T1 20101115; CN 101434148 A 20090520; CN 101434148 B 20120613; DE 602008003081 D1 20101202; JP 2009137275 A 20090625; JP 2009137287 A 20090625; JP 4246787 B1 20090402

DOCDB simple family (application)  
**EP 08163315 A 20080829**; AT 08163315 T 20080829; CN 200810130904 A 20080829; DE 602008003081 T 20080829; JP 2008184073 A 20080715; JP 2008287358 A 20081110