

Title (en)

WRITING ARTICLE HAVING A CAPILLARY RESERVOIR WITH IMPROVED INK DELIVERY

Title (de)

SCHREIBWERKZEUG MIT EINEM KAPILLARBEHÄLTER FÜR EINE VERBESSERTE TINTENZUFUHR

Title (fr)

ARTICLE D'ECRITURE A RESERVOIR CAPILLAIRE A RESTITUTION AMELIOREE

Publication

EP 1534538 A1 20050601 (FR)

Application

EP 03787835 A 20030606

Priority

- FR 0301713 W 20030606
- FR 0209570 A 20020726

Abstract (en)

[origin: CA2493281A1] The invention relates to a writing article (1) comprising a body (2), a main reservoir (3) containing the ink and fitted into said body (2), a writing head (5) projecting from the front part (2a) of said body (2) and a capillary connector (4) for supplying the ink from the main reservoir (3) to the writing head (5). Said writing article also comprises an auxiliary reservoir (6), containing an ink carrier liquid and actuating means (7) for releasing said liquid from the auxiliary reservoir (6), such that said liquid flows into the main reservoir (3) and returns the ink to the connector (4). Said carrier liquid contains the ink solvent, in particular water for an aqueous ink and preferably all or any of the ink components in the main reservoir (3) which allow the original writing properties of the residual ink, carried by the carrier liquid, to be retained.

IPC 1-7

B43K 11/00; **B43K 8/04**

IPC 8 full level

B43K 5/10 (2006.01); **B43K 8/00** (2006.01); **B43K 8/03** (2006.01); **B43K 8/04** (2006.01); **B43K 11/00** (2006.01)

CPC (source: EP US)

B43K 8/04 (2013.01 - EP US); **B43K 11/005** (2013.01 - EP US)

Citation (search report)

See references of WO 2004016448A1

Designated contracting state (EPC)

DE ES GB

DOCDB simple family (publication)

FR 2842760 A1 20040130; **FR 2842760 B1 20041022**; AU 2003253065 A1 20040303; AU 2003253065 B2 20090813; BR 0312350 A 20050405; CA 2493281 A1 20040226; CA 2493281 C 20110816; CN 100413706 C 20080827; CN 1678464 A 20051005; DE 60304715 D1 20060524; DE 60304715 T2 20070510; EP 1534538 A1 20050601; EP 1534538 B1 20060419; ES 2263052 T3 20061201; JP 2005533697 A 20051110; JP 4542426 B2 20100915; MX PA05001087 A 20050606; US 2006104706 A1 20060518; US 7470079 B2 20081230; WO 2004016448 A1 20040226

DOCDB simple family (application)

FR 0209570 A 20020726; AU 2003253065 A 20030606; BR 0312350 A 20030606; CA 2493281 A 20030606; CN 03820311 A 20030606; DE 60304715 T 20030606; EP 03787835 A 20030606; ES 03787835 T 20030606; FR 0301713 W 20030606; JP 2004528549 A 20030606; MX PA05001087 A 20030606; US 52217905 A 20051024