

Title (en)

INK RESERVOIR MEMBER AND INK JET RECORDING APPARATUS AND WRITING INSTRUMENT USING THE SAME

Title (de)

TINTENBEHÄLTERELEMENT, TINTENSTRAHLDRUCKAPPARAT UND DIESELBEN ENTHALTENDES SCHREIBINSTRUMENT

Title (fr)

ELEMENT DE RESERVOIR D'ENCRE, APPAREIL D'IMPRESSION PAR JET D'ENCRE ET INSTRUMENT D'ECRITURE LES UTILISANT

Publication

EP 0927637 A4 20010411 (EN)

Application

EP 97934740 A 19970808

Priority

- JP 9702777 W 19970808
- JP 21385796 A 19960813
- JP 18830097 A 19970714

Abstract (en)

[origin: EP0927637A1] An ink reservoir member is equipped with all the constituents necessary for the ink reservoir and moreover, mitigates the limit of the thickness of a blade portion, increases an ink reserving quantity and improves functionality. Further, this member is not particular in selecting the materials of sheet-like members and can use all the water base inks and the oil base inks by using an axially stretched material of polyester films, for example. Therefore, the ink reservoir member can be produced easily and economically. An ink jet recording apparatus and a writing instrument use this ink reservoir member. The ink reservoir member (13) is constituted by laminating a plurality of flat-spread sheet members (15) and a plurality of protuberance portions (16) are formed on the surface of each sheet-like member (15) with suitable gaps between them by embossing or printing. Laminated sheet-like members are positioned substantially parallel to one another with preset intervals by the protuberance portions (16) in such a fashion as to define slits (18), and all the sheet-like members (15) are in contact with a ink conduit (19). <IMAGE>

IPC 1-7

B41J 2/175; **B43K 8/02**

IPC 8 full level

B41J 2/175 (2006.01); **B43K 8/04** (2006.01)

CPC (source: EP)

B41J 2/17513 (2013.01); **B43K 8/04** (2013.01)

Citation (search report)

- [A] EP 0486309 A2 19920520 - CANON KK [JP]
- [A] US 4671692 A 19870609 - INABA TAKAO [JP]
- See references of WO 9806585A1

Cited by

EP1325812A1; CN107718893A; EP3281796A3; US6805436B2; US10220626B2

Designated contracting state (EPC)

FR

DOCDB simple family (publication)

EP 0927637 A1 19990707; **EP 0927637 A4 20010411**; WO 9806585 A1 19980219

DOCDB simple family (application)

EP 97934740 A 19970808; JP 9702777 W 19970808