

Title (en)
Ink cartridge and remaining ink volume detection method

Title (de)
Tintenpatrone und Verfahren zur Detektion der restlichen Tintenmenge

Title (fr)
Cartouche d'encre et procédé de détection du volume d'encre restant

Publication
EP 0947328 B1 20051207 (EN)

Application
EP 99302481 A 19990330

Priority

- JP 8403798 A 19980330
- JP 9477298 A 19980407
- JP 9477398 A 19980407
- JP 9477498 A 19980407
- JP 9477598 A 19980407
- JP 9477698 A 19980407
- JP 9477798 A 19980407
- JP 9477898 A 19980407
- JP 14699398 A 19980528
- JP 16692098 A 19980615
- JP 2832099 A 19990205

Abstract (en)
[origin: EP0947328A2] An ink cartridge has a first partitioning wall (5) and a third partitioning wall (7) for dividing the inside of a case (2) into a first ink chamber (9) and a second ink chamber (10), and a second partitioning wall (6) for demarcating an atmosphere connection chamber (11). In an upper case cover (3) are formed an ink filling hole (13) communicating with the second ink chamber (10) and a pressure reduction hole (14) communicating with the atmosphere connection chamber (11). Therefore, when ink filling is being done, the filling apparatus and the pressure reduction apparatus need only be brought to bear from one side of the upper case cover, resulting in improved work efficiency. Ink filling can be performed efficiently because the ink successively passes to the second ink chamber (10) and the first ink chamber (9). After ink filling, the ink filling hole (13) and the pressure reduction hole (14) can easily be sealed off with sealing material. An ink cartridge is thus provided that can be easily assembled at low cost. <IMAGE>

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Cited by
EP2839963A3; CN103660588A; CN107264049A; CN102285234A; EP1247648A3; US6345889B1; EP1535743A1; US6325496B1; DE10133465B4; EP1275509A3; EP1120258A3; EP1120259A3; CN104085197A; US8534813B2; US7500738B2; US9776418B2; US9827776B2; US7954933B2; US10384454B2; US10647123B2; US9475294B2; US9649847B2; US6733114B2; US6913350B2; US7048363B2; US6582068B2; US6758556B2; US7152965B2; US7784923B2; US8636347B2; US8998394B2

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