Title (en)

A device for continuously supplying ink under constant pressure

Title (de)

Vorrichtung zur kontinuierlichen Tintenversorgung unter konstantem Druck

Title (fr)

Dispositif d'alimentation en continu en encre sous pression constante

Publication

EP 1561580 A3 20060308 (EN)

Application

EP 04020395 A 20040827

Priority

- CN 200420152913 U 20040206
- CN 200420676393 U 20040614

Abstract (en)

[origin: EP1561580A2] A device for continuously supplying ink under constant pressure comprising an ink storage tank (3) and an ink feeding pipe connecting an ink chamber with a print head. The ink storage tank includes a container having a relatively large ink chamber which has a gas passage connected with the atmosphere. Inside the ink storage tank is a first chamber (33) and a second chamber (35). A gas inlet port (31) connected with the atmosphere is provided inside the first chamber. At the lower part of the partition between the two chambers, there is provided a gas-liquid exchange entryway (37) that allows gas in the first chamber to enter into the second chamber and allows ink in the second chamber to flow into the first chamber. Utilizing an equilibrium principle of gas pressure, constant pressure processes can be designed and manufactured.

IPC 8 full level (invention and additional information)

B41J 2/175 (2006.01)

CPC (invention and additional information)

B41J 2/17513 (2013.01); **B41J 2/17509** (2013.01)

Citation (search report)

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- [A] EP 0846561 A2 19980610 - CANON KK [JP]
- [A] EP 0765756 A2 19970402 - CANON KK [JP]
- [A] US 6332673 B1 20011225 - HIGUMA MASAHIKO [JP], et al
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Designated contracting state (EPC)

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