

Title (en)

Ink jet printer including a printhead and a method of removing bubbles from ink jet printheads

Title (de)

Tintenstrahldrucker mit einem Druckkopf und einem Verfahren zur Entfernung von Blasen aus Tintenstrahldruckköpfen

Title (fr)

Imprimante à jet d'encre comprenant une tête d'impression et une méthode d'évacuation de bulles des têtes d'impression

Publication

EP 1110733 A1 20010627 (EN)

Application

EP 00310865 A 20001207

Priority

US 46747999 A 19991220

Abstract (en)

A simultaneous push-pull method of removing bubbles from the nozzles of a powerable ink jet printhead. The method includes the steps of providing a printhead capping member (52) including side walls (64, 66), a bottom wall (62), a vacuuming path (58) through said bottom wall (62), and a capping recess (56) defined by the side walls (64, 66) and the bottom wall (62); applying power to the powerable ink jet printhead for forcibly pushing and ejecting drops of liquid ink in an ink ejecting direction through nozzles in the nozzle face and into the capping recess (56); and simultaneously applying a vacuum force through the capping recess (56) to the nozzle face for additively pulling and moving ink in the ink channels through the nozzles and in the ink ejecting direction, thereby effectively priming the nozzles in the nozzle face by removing ink and undesirable bubbles from the ink channels. <IMAGE>

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

B41J 2/1652 (2013.01); **B41J 2/19** (2013.01)

Citation (applicant)

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- US 4637171 A 19870120 - MENIGAT ROLAND [DE], et al
- US 4679059 A 19870707 - DAGNA GIANDOMENICO [IT]

Citation (search report)

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- [A] US 6000792 A 19991214 - KOIZUMI YUTAKA [JP], et al
- [XA] PATENT ABSTRACTS OF JAPAN vol. 016, no. 278 (M - 1268) 22 June 1992 (1992-06-22)
- [X] PATENT ABSTRACTS OF JAPAN vol. 016, no. 503 (M - 1326) 16 October 1992 (1992-10-16)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10 31 August 1998 (1998-08-31)

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