

Title (en)

Discharge recovery method for an ink jet recording head, recording head adopting the same method and ink jet recording apparatus adopting the same method.

Title (de)

Ablagenrückgewinnungsverfahren für einen Tintenstrahlaufzeichnungskopf, Aufzeichnungskopf und mit diesem Verfahren betriebene Tintenstrahlaufzeichnungsvorrichtung.

Title (fr)

Méthode pour la récupération des décharges pour tête d'impression par jet d'encre, tête d'impression et dispositif d'impression utilisant ladite méthode.

Publication

EP 0326428 A2 19890802 (EN)

Application

EP 89300848 A 19890127

Priority

- JP 1359289 A 19890123
- JP 1649188 A 19880127
- JP 15832188 A 19880627

Abstract (en)

In a discharge recovery method for an ink jet recording head (1), a recording head having discharge openings for discharging ink therethrough, liquid paths (2) in which recording energy generating members (3) generating energy for discharging the ink through the discharge openings are provided and which communicate with the discharge openings, and a liquid chamber (4) communicating with the liquid paths (2) for supplying the ink to the liquid paths is used to drive heat energy generating (5) means provided in the liquid chamber for generating heat energy for causing a change in the state of the ink in the liquid chamber (4) and creating a bubble, during non-recording, thereby causing the ink to be discharge through the discharge openings.

IPC 1-7

B41J 3/04

IPC 8 full level

B41J 2/05 (2006.01); **B41J 2/165** (2006.01); **B41J 2/175** (2006.01); **B41J 2/18** (2006.01)

CPC (source: EP)

B41J 2/1652 (2013.01); **B41J 2/16526** (2013.01); **B41J 2/18** (2013.01)

Cited by

AU743359B2; CN102105306A; EP1205307A3; EP0764527A3; EP0591989A3; US5777649A; EP0811489A3; EP0921000A3; US6817694B1; WO0103936A1; US6213592B1; US6241350B1; US7029095B2; US7413282B2; US6709090B2; US6851779B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0326428 A2 19890802; **EP 0326428 A3 19900328**; **EP 0326428 B1 19950719**; DE 68923461 D1 19950824; DE 68923461 T2 19960125; JP 2775275 B2 19980716; JP H0278567 A 19900319

DOCDB simple family (application)

EP 89300848 A 19890127; DE 68923461 T 19890127; JP 1359289 A 19890123