

Title (en)

Discharge recovery method for an ink jet recording head and device for carrying out the same.

Title (de)

Durch Entladung wirkende Regeneriermethode für einen Tintenstrahlkopf und Vorrichtung zur Durchführung der Methode.

Title (fr)

Méthode de régénération à décharge pour une tête à jet d'encre et dispositif pour l'application de cette méthode.

Publication

EP 0452119 A2 19911016 (EN)

Application

EP 91303184 A 19910410

Priority

JP 9540690 A 19900411

Abstract (en)

This invention provides a novel and effective recovery method and device for an ink jet recording head, which method or device has the step of or means for carrying out substantially at a time a condition for driving discharge energy generating elements to discharge ink from the discharge ports of the head and a condition for effecting the forced discharge of the ink by a suction or pressing pump. According to the present invention, the pump itself can be made compact and moreover, the recovery process of all the discharge ports can be carried out reliably within a short time.

IPC 1-7

B41J 2/165

IPC 8 full level

B41J 2/165 (2006.01)

CPC (source: EP KR)

B41J 2/01 (2013.01 - KR); **B41J 2/16523** (2013.01 - EP)

Cited by

EP0765751A1; US5975676A; EP0845360A3; US5805180A; US6068364A; EP0584960A3; US5448270A; US6106097A; EP1495870A3; US5896144A; EP0585888A3; US6010204A; DE4447801B4; US5699092A; EP0765753A1; EP0615846A1; US5606353A; US6019450A; CN110507173A; US6340217B1; US6273546B1; US6286930B1; EP1000747A1; EP0765752A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0452119 A2 19911016; EP 0452119 A3 19911227; EP 0452119 B1 19960306; AT E134932 T1 19960315; AT E194552 T1 20000715; AU 676924 B2 19970327; AU 7037094 A 19941013; AU 7434291 A 19911017; CA 2040120 A1 19911012; CA 2040120 C 19960326; CN 1057428 A 19920101; CN 1062515 C 20010228; DE 69117559 D1 19960411; DE 69117559 T2 19960905; DE 69132320 D1 20000817; DE 69132320 T2 20001214; EP 0670223 A2 19950906; EP 0670223 A3 19960508; EP 0670223 B1 20000712; KR 910018183 A 19911130; KR 960005182 B1 19960422

DOCDB simple family (application)

EP 91303184 A 19910410; AT 91303184 T 19910410; AT 95200807 T 19910410; AU 7037094 A 19940819; AU 7434291 A 19910411; CA 2040120 A 19910410; CN 91103063 A 19910411; DE 69117559 T 19910410; DE 69132320 T 19910410; EP 95200807 A 19910410; KR 910005792 A 19910411