

Title (en)

Record head for an electrostatic ink jet recorder

Title (de)

Verfahren zur Herstellung eines Aufzeichnungskopfes für eine elektrostatische Tintenstrahlaufzeichnungsvorrichtung

Title (fr)

Méthode de fabrication d'une tête d'enregistrement pour un dispositif d'enregistrement à jet d'encre

Publication

**EP 0813966 A2 19971229 (EN)**

Application

**EP 97250184 A 19970614**

Priority

JP 15589596 A 19960617

Abstract (en)

A record head for an electrostatic ink jet recorder of the present invention is formed with undulation having a high aspect ratio thereon. Channels formed between nearby ridges due to the undulation are used as ink passageways. This allows the ridges to form convex ink menisci stably at all times at their front ends or ejection points, and thereby insures stable ejection of ink drops. Moreover, ink fed to the front ends of the ridges is constantly circulated by way of an ink collecting member. The circulation of the ink maintains the toner content of the ink uniform throughout the ejection points, and prevents the toner particles from excessively concentrating on the ejection points where ink ejection does not occur. <IMAGE>

IPC 1-7

**B41J 2/14**; **B41J 2/06**

IPC 8 full level

**B41J 2/06** (2006.01); **B41J 2/385** (2006.01)

CPC (source: EP)

**B41J 2/06** (2013.01); **B41J 2002/061** (2013.01)

Cited by

EP0822075A3

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0813966 A2 19971229**; **EP 0813966 A3 19980819**; **EP 0813966 B1 19991027**; DE 69700679 D1 19991202; DE 69700679 T2 20000706; JP 2845812 B2 19990113; JP H10806 A 19980106

DOCDB simple family (application)

**EP 97250184 A 19970614**; DE 69700679 T 19970614; JP 15589596 A 19960617