

Title (en)

Electrostatic ink-jet recording head having a plurality of partitions in the direction of ink ejection

Title (de)

Elektrostatistischer Tintenstrahlauzeichnungskopf mit mehreren Trennwänden in Tintenstrahlrichtung

Title (fr)

Tête d'enregistrement à jet d'encre électrostatique à plusieurs cloisons en direction de l'éjection de l'encre

Publication

EP 0761442 A2 19970312 (EN)

Application

EP 96113658 A 19960826

Priority

- JP 21877995 A 19950828
- JP 23627695 A 19950914

Abstract (en)

Recording electrodes 2 are formed on a substrate 1. A cover member 6 having a ink chamber therein is fixed onto the recording electrodes 2. Charged color particulate materials are used in the ink. Partitions 10 are formed between the tips of the recording electrodes 2 and the tip portion of the cover member 6. The tip portions of the partitions 10 are disposed so as to be located on the side of ink ejection with respect to the tip portions of the recording electrodes 2, and the tips of the partitions at a side of the substrate 1 are indented toward the tips of the recording electrodes 2. Therefore, charged toner particles quickly concentrate on ink menisci formed at the indenting portion under the partitions 10, to thereby enable stable ink supply and high-speed printing. <IMAGE>

IPC 1-7

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

IPC 8 full level

B41J 2/06 (2006.01)

CPC (source: EP)

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

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0761442 A2 19970312; **EP 0761442 A3 19970813**; **EP 0761442 B1 19990616**; DE 69602898 D1 19990722; DE 69602898 T2 20000113

DOCDB simple family (application)

EP 96113658 A 19960826; DE 69602898 T 19960826