

Title (en)

Substrate for ink jet recording head, ink jet recording head having the same and methods for preparing them.

Title (de)

Substrat für Tintenstrahlaufzeichnungskopf, Tintenstrahlaufzeichnungskopf mit solchem Substrat sowie Verfahren, diese vorzubehandeln.

Title (fr)

Substrat pour tête d'enregistrement à jet d'encre, tête d'enregistrement à jet d'encre ayant ce substrat et procédés pour préparer ceux-ci.

Publication

**EP 0346935 A2 19891220 (EN)**

Application

**EP 89111010 A 19890616**

Priority

JP 14817388 A 19880617

Abstract (en)

An ink jet recording head comprises a discharging opening (101) for liquid discharge and an electricity-heat convertor (104A). The electricity-heat convertor has a region formed by oxidation of at least part of an electro-conductive material, and the region is adapted to generate heat.

IPC 1-7

**B41J 3/04**

IPC 8 full level

**B41J 2/05** (2006.01); **B41J 2/16** (2006.01); **C25D 11/02** (2006.01)

CPC (source: EP US)

**B41J 2/1604** (2013.01 - EP); **B41J 2/1623** (2013.01 - EP); **B41J 2/1626** (2013.01 - EP); **B41J 2/1631** (2013.01 - EP); **B41J 2/1642** (2013.01 - EP);  
**B41J 2/1646** (2013.01 - EP); **C25D 11/022** (2013.01 - EP US)

Cited by

US5448273A; EP0609860A3; CN1080645C

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

**EP 0346935 A2 19891220**; **EP 0346935 A3 19910403**; **EP 0346935 B1 19950906**; DE 68924101 D1 19951012; DE 68924101 T2 19960229;  
ES 2076174 T3 19951101; JP 2744472 B2 19980428; JP H0278556 A 19900319

DOCDB simple family (application)

**EP 89111010 A 19890616**; DE 68924101 T 19890616; ES 89111010 T 19890616; JP 15057689 A 19890615