

Title (en)  
INK JET RECORDING HEAD AND MANUFACTURING METHOD THEREOF

Title (de)  
TINTENSTRAHLDRUCKKOPF UND VERFAHREN ZUR DESSEN HERSTELLUNG

Title (fr)  
TETE D'ECRITURE A JET D'ENCRE ET PROCEDE DE FABRICATION ASSOCIE

Publication  
**EP 1083048 A4 20010919 (EN)**

Application  
**EP 99923867 A 19990602**

Priority  
• JP 9902945 W 19990602  
• JP 15338098 A 19980602

Abstract (en)  
[origin: WO9962712A1] A recording head comprising a plurality of pressure chambers (2a, 2b, 2c) communicating with a nozzle and an ink supply port and having vibrating walls (3a, 3b, 3c) and a plurality of piezoelectric elements (7a, 7b, 7c) having external electrodes (8a, 9a) and connected to relative vibrating walls, wherein each piezoelectric element has an active region (12a) where an internal distortion is generated by a voltage application between the external electrodes and inactive regions (10a, 11a) where no internal distortion is generated on application of a voltage and is joined to a pressure chamber via the active region and a vibrating wall and to the pressure chamber via the inactive regions.

IPC 1-7  
**B41J 2/045**; **B41J 2/055**; **B41J 2/16**; **B41J 2/14**

IPC 8 full level  
**B41J 2/045** (2006.01); **B41J 2/055** (2006.01); **B41J 2/14** (2006.01); **B41J 2/16** (2006.01)

CPC (source: EP)  
**B41J 2/14274** (2013.01); **B41J 2/1612** (2013.01); **B41J 2/1623** (2013.01); **B41J 2/1631** (2013.01); **B41J 2/1632** (2013.01); **B41J 2/1643** (2013.01); **B41J 2/1646** (2013.01); **B41J 2002/14387** (2013.01)

Citation (search report)  
• [XA] EP 0783965 A2 19970716 - NEC CORP [JP]  
• [A] EP 0723866 A1 19960731 - CITIZEN WATCH CO LTD [JP]  
• [XDA] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 11 28 November 1997 (1997-11-28)  
• See references of WO 9962712A1

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EP1270227A1; EP1275507A1; US6729716B2; EP1815991A3; US7731340B2; US6550897B2; US7699442B2; US8042919B2

Designated contracting state (EPC)  
DE GB

DOCDB simple family (publication)  
**WO 9962712 A1 19991209**; AU 4058699 A 19991220; EP 1083048 A1 20010314; EP 1083048 A4 20010919; JP 3248486 B2 20020121; JP H11348276 A 19991221

DOCDB simple family (application)  
**JP 9902945 W 19990602**; AU 4058699 A 19990602; EP 99923867 A 19990602; JP 15338098 A 19980602