

Title (en)  
INK JET PRINTING HEAD

Publication  
**EP 0150348 A3 19850821 (DE)**

Application  
**EP 84114845 A 19841206**

Priority  
DE 3403615 A 19840202

Abstract (en)  
[origin: US4578686A] A writing head for an ink printing device characterized by piezo-electric drive elements being formed by piezo-electrical laminae having cut edges shaped to produce a discharge opening in communication with an ink chamber which is separated from an ink supply channel by a choke channel. The laminae are arranged with spacer elements in a stacked arrangement to form the writing head with a plurality of discharge openings which can individually discharge droplets of ink.

IPC 1-7  
**B41J 3/04**

IPC 8 full level  
**B41J 2/045** (2006.01); **B41J 2/055** (2006.01); **B41J 2/145** (2006.01)

CPC (source: EP US)  
**B41J 2/145** (2013.01 - EP US); **B41J 2002/14306** (2013.01 - EP US)

Citation (search report)

- [A] US 4392145 A 19830705 - PARKOLA WALTER R
- [A] GB 2088287 A 19820609 - SUWA SEIKOSHA KK, et al

Cited by  
DE3630206A1

Designated contracting state (EPC)  
CH DE FR GB IT LI NL SE

DOCDB simple family (publication)  
**EP 0150348 A2 19850807; EP 0150348 A3 19850821; EP 0150348 B1 19871111**; DE 3403615 A1 19850808; DE 3467329 D1 19871217; JP S60180850 A 19850914; US 4578686 A 19860325

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**EP 84114845 A 19841206**; DE 3403615 A 19840202; DE 3467329 T 19841206; JP 1464185 A 19850130; US 69620685 A 19850129