

Title (en)  
DEVICE FOR THE EJECTION OF INK DROPLETS

Publication  
**EP 0094032 B1 19850911 (DE)**

Application  
**EP 83104401 A 19830504**

Priority  
DE 3217248 A 19820507

Abstract (en)  
[origin: US4716418A] Apparatus for the ejection of ink droplets having a fluid filled channel having a discharge opening at one end, and a cross-sectional expansion at the other, so that pressure waves within the channel produce by a tubular transducer are reflected from the cross-sectional expansion with reversal of operational sign or polarity. Unipolar pulses having symmetrically and trailing edges excite the transducer, and the droplet is ejected from the discharge opening as a result of the superimposed directed and reflected pressure waves produced by the transducer.

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

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

CPC (source: EP US)  
**B41J 2/04581** (2013.01 - EP US); **B41J 2/04588** (2013.01 - EP US)

Cited by  
EP0621135A1; US5587727A; EP0200457A1; US4743924A

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DOCDB simple family (publication)  
**EP 0094032 A1 19831116; EP 0094032 B1 19850911**; DE 3217248 A1 19831110; DE 3217248 C2 19860102; JP H0252626 B2 19901114; JP S58203064 A 19831126; US 4716418 A 19871229

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**EP 83104401 A 19830504**; DE 3217248 A 19820507; JP 7768883 A 19830504; US 67320784 A 19841119