

Title (en)  
ACTUATOR FOR DOT MATRIX PRINTHEAD

Publication  
**EP 0152117 A3 19870527 (EN)**

Application  
**EP 85101689 A 19850215**

Priority  
US 58065684 A 19840216

Abstract (en)  
[origin: EP0152117A2] An improved dot matrix actuator is provided which includes a magnetic circuit formed of a yoke assembly and a pivotal armature. The armature is pivotally supported with respect to the yoke by means of a flexure assembly which eliminates the need for a true pivot between the two elements. The elements are shaped so as to maintain a constant small air gap therebetween so as to maximize the magnetic efficiency of the device while eliminating wear. The device is operated just below saturation of the magnetic circuit in order to maximize efficiency. In addition, the actuator includes several features for maximizing its speed and operational efficiency.

IPC 1-7  
**B41J 7/84**

IPC 8 full level  
**H01F 7/14** (2006.01); **B41J 2/275** (2006.01)

CPC (source: EP)  
**B41J 2/275** (2013.01)

Citation (search report)

- DE 2935994 A1 19810402 - IBM DEUTSCHLAND
- US 3991869 A 19761116 - BERREY HARRY R
- US 4136978 A 19790130 - BELLINGER JR JAMES E, et al
- IBM TECHNICAL DISCLOSURE BULLETIN, vol. 17, no. 1, June 1974, pages 340,341; Armonk, New York, US R.W. LUOMA: "Electromagnetic actuator unit." \* The whole article \*

Cited by  
EP0338175A1; GB2221194A; GB2221194B

Designated contracting state (EPC)  
DE FR IT NL

DOCDB simple family (publication)  
**EP 0152117 A2 19850821; EP 0152117 A3 19870527**; JP H0455115 B2 19920902; JP S60247570 A 19851207

DOCDB simple family (application)  
**EP 85101689 A 19850215**; JP 2811985 A 19850215