

Title (en)  
Inkjet nozzle with Lorentz force actuator

Title (de)  
Tintenstrahldüse mit Lorentz-Kraft-Element

Title (fr)  
Buse de jet d'encre avec actuateur à force Lorentz

Publication  
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Application  
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- AU PO807197 A 19970715
- AU PO804797 A 19970715
- AU PO803597 A 19970715
- AU PO804497 A 19970715
- AU PO806397 A 19970715
- AU PO805697 A 19970715
- AU PO806997 A 19970715
- AU PO804997 A 19970715
- AU PO803697 A 19970715
- AU PO804897 A 19970715
- AU PO807097 A 19970715
- AU PO806797 A 19970715
- AU PO800197 A 19970715
- AU PO804197 A 19970715
- AU PO800497 A 19970715
- AU PO793597 A 19970715
- AU PO793697 A 19970715
- AU PO806197 A 19970715
- AU PO805497 A 19970715
- AU PO806597 A 19970715
- AU PO805597 A 19970715
- AU PO805397 A 19970715
- AU PO793397 A 19970715
- AU PO795097 A 19970715
- AU PO794997 A 19970715
- AU PO806097 A 19970715
- AU PO805997 A 19970715
- AU PO807397 A 19970715
- AU PO807697 A 19970715
- AU PO807597 A 19970715
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- AU PO805897 A 19970715
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Abstract (en)  
An ink jet nozzle arrangement having an ink ejection port for the ejection of ink said nozzle comprising: a nozzle chamber interconnected to said ink ejection port and having one moveable wall including an electromagnetic coil, said nozzle chamber being in a magnetic field such that, upon activation of said electromagnetic coil, said moveable wall experiences a lorenz force and is caused to move so as to result in the ejection of ink from said nozzle chamber via said ink ejection port. <IMAGE>

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IPC 8 full level  
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Citation (search report)

- [A] US 4633267 A 19861230 - MEINHOF ANDRE H [DE]
- [X] PATENT ABSTRACTS OF JAPAN vol. 0172, no. 26 (M - 1405) 10 May 1993 (1993-05-10)
- [X] PATENT ABSTRACTS OF JAPAN vol. 0145, no. 23 (M - 1049) 16 November 1990 (1990-11-16)
- [X] PATENT ABSTRACTS OF JAPAN vol. 0163, no. 91 (M - 1298) 19 August 1992 (1992-08-19)
- [A] PATENT ABSTRACTS OF JAPAN vol. 0150, no. 32 (M - 1073) 25 January 1991 (1991-01-25)
- [A] PATENT ABSTRACTS OF JAPAN vol. 0092, no. 94 (M - 431) 20 November 1985 (1985-11-20)
- [A] PATENT ABSTRACTS OF JAPAN vol. 0141, no. 86 (M - 0962) 16 April 1990 (1990-04-16)

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