

Title (en)  
Ink-jet head and ink-jet printer

Title (de)  
Tintenstrahlkopf und Tintenstrahldrucker

Title (fr)  
Tête à jet d'encre et imprimante à jet d'encre

Publication  
**EP 1510343 A3 20050831 (EN)**

Application  
**EP 04023837 A 20030220**

Priority  
• EP 03003847 A 20030220  
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• JP 2002043010 A 20020220  
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Abstract (en)  
[origin: EP1338419A1] An ink-jet head comprises a passage unit (204) including pressure chambers (210) connected with a nozzle (208) and an ink supply source. The ink-jet head further comprises actuator units (221) for changing the volume of each pressure chamber. Each actuator unit includes pressure generation portions (A1) respectively corresponding to pressure chambers, and is formed to extend over the pressure chambers. The actuator units are arranged along the longitudinal direction of the passage unit so that each neighboring actuator units partially overlap each other in the lateral direction of the passage unit. Each actuator unit has a basic region (P1) where many pressure generation portions (A1) are formed in a matrix, and an additional region (P2) neighboring the basic region in the lateral direction of the passage unit. In the additional region (P2), additional pressure generation portions (A2) are formed to compensate for a gap portion (G) between the pressure generation portions of adjacent basic regions. <IMAGE>

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Citation (search report)  
• [X] EP 1138493 A1 20011004 - NEC CORP [JP]  
• [X] US 5757400 A 19980526 - HOISINGTON PAUL A [US]  
• [X] US 5455615 A 19951003 - BURR RONALD F [US], et al  
• [X] US 5592203 A 19970107 - THIEL WOLFGANG [DE], et al

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