

Title (en)

Actuating device for a multi-nozzle ink jet printhead

Title (de)

Betätigungsvorrichtung für einenTintenstrahlkopf mit mehreren Düsen

Title (fr)

Dispositif d'actionnement d'une tête à jet d'encre à plusieurs buses

Publication

EP 1291181 A1 20030312 (EN)

Application

EP 02078765 A 20020827

Priority

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- EP 01203561 A 20010907

Abstract (en)

Actuating device for a multi-nozzle ink jet printhead, comprising a linear array of electromechanical transducers (22, 24) some of which are configured as actuator fingers (22) associated with the nozzles of the printhead while others are configured as support fingers (24) intervening between the actuator fingers (22), wherein each transducer (22, 24) has a first (30, 34) and a second electrode (32, 36) and is adapted to expand and contract in accordance with a voltage applied between the first and second electrodes, characterized in that the totality of said transducers (22, 24) consists of at least one group which includes a plurality of actuator fingers (22) and a plurality of support fingers (24), and control means (42, 44) are associated with each group for applying a voltage, that depends on the number of active actuator fingers (22) in this group, to the first electrodes (34) of all support fingers (24) of the group. <IMAGE>

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CPC (source: EP)

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Citation (applicant)

- EP 0820869 B1 20000510 - OCE TECH BV [NL]
- US 4381515 A 19830426 - BAIN LEE L

Citation (search report)

- [DA] EP 0820869 A1 19980128 - OCE TECH BV [NL]
- [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 069 (M - 1212) 20 February 1992 (1992-02-20)

Cited by

CN112544599A; WO2012072114A1; US7322663B2

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