

Title (en)
INK JET WRITING HEAD

Title (de)
TINTENSTRAHL-SCHREIBKOPF

Title (fr)
TETE D'ECRITURE A JET D'ENCRE

Publication
EP 1819517 A2 20070822 (DE)

Application
EP 05811216 A 20051024

Priority

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- DE 102005003541 A 20050126
- DE 102005015694 A 20050405
- DE 102005020248 A 20050428
- DE 102005031034 A 20050702

Abstract (en)
[origin: US7824015B2] An ink jet writing head includes a pressurized ink chamber provide with at least one ink nozzle that is closed by a mobile valve body. A piezoelectric valve actuating device that is electrically connected to a control device drives the valve body with reciprocating motions. The valve body is held by a closing spring in the closing position thereof and is connected to a connecting rod in a driving manner. At least one curved spring strip engages with the end of the connecting rod, located at a distance from the valve, the spring strip being supported on the valve-side end thereof, opposite the ink chamber. The connecting rod is subjected to the tractional prestress of a tension spring. At least one piezoelectric element is applied to the spring strip, the piezoelectric element being controlled by the control device in such a way as to perform tractile movements.

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