

Title (en)

Piezoelectric actuator for ink jet printhead

Title (de)

Piezoelektrischer Betätiger für Tintenstrahldruckkopf

Title (fr)

Dispositif d'actionnement piézoélectrique pour tête d'impression à jet d'encre

Publication

EP 0931653 A1 19990728 (EN)

Application

EP 99200090 A 19990112

Priority

- EP 99200090 A 19990112
- EP 98200189 A 19980123

Abstract (en)

Piezoelectric actuator (12) for an ink jet printhead (10), comprising: a body (24) of piezoelectric material having a bottom face (26) through which the mechanical energy of the actuator is transferred to a receiving member (22), said body having an active part (30) adjacent to the bottom face as well as an inactive part (36, 38); a layered structure of alternating signal electrodes (32) and common electrodes (34) arranged in the active part (30) in parallel with the bottom face (26) and separated by layers of the piezoelectric material; a layered structure of alternating auxiliary electrodes (40) and common electrodes (34) arranged in the inactive part (38) in parallel with the bottom face and separated by layers of the piezoelectric material; at least one signal lead electrode (42) formed on a first side face of said body (24) and interconnecting the signal electrodes (32); a ground lead electrode (44) formed on a second side face opposite to the first side face and interconnecting the common electrodes (34); and an auxiliary lead electrode (46) interconnecting the auxiliary electrodes (40), characterized in that the auxiliary lead electrode (46) is formed on a third side face of the block (24). <IMAGE>

IPC 1-7

B41J 2/14

IPC 8 full level

B41J 2/14 (2006.01)

CPC (source: EP)

B41J 2/14274 (2013.01)

Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 095, no. 011 26 December 1995 (1995-12-26)
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