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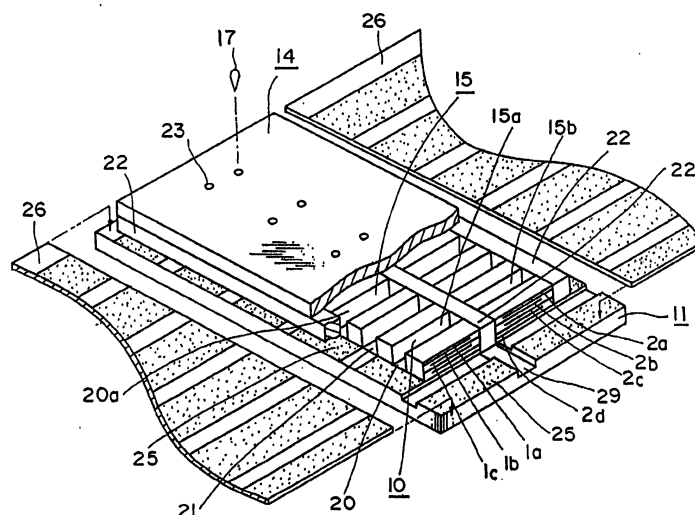
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(54) Ink-jet head and methods of manufacturing and driving the same

(57) An ink-jet head is provided, comprising a base plate (11), a plurality of partitions (10) formed by laminating a plurality of plate-shaped piezoelectric material layers (1a - 1c) polarized in a direction of thickness with conductive material layers (2a - 2d) interposed among them, a cover (14), and a sealing member (22), wherein said plural partitions (10) are arranged with given gaps (20, 21, 29) interposed between them on said base plate

(11) said gaps (20, 21, 29) being closed by said cover (14) at upper portions thereof and by said sealing member (22) at side portions thereof to form pressurizing chambers (15), and a nozzle hole (23) is formed at a portion of each of said pressurizing chambers (15), and said partitions (10) are laminated piezoelectric actuators each of which has a piezoelectric strain coefficient d_{33} and is deformed in the direction of thickness when voltage is applied thereto.

FIG.11



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The present search report has been drawn up for all claims				
Place of search THE HAGUE		Date of completion of the search 19 January 1999	Examiner Meulemans, J-P	
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>				

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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