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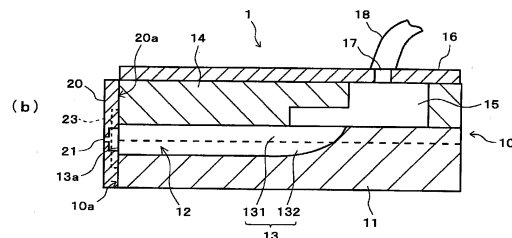
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(54) **Inkjet head**

(57) Provided is an inkjet head which is of a shear mode type that a front end face of each partition wall made of a piezoelectric material is joined to a nozzle plate, the inkjet head being capable of improving a drop speed and performing stable drive at a high speed by suppressing an influence of vibration energy at the time of a deforming operation concentrating on the front end face of the partition wall.

In an inkjet head 1 comprising: a head chip 10 in which a plurality of channels 12 and a plurality of partition walls 13 at least partially containing a piezoelectric material are alternately aligned and which exerts a pressure for discharging an ink in the channels 12 by a deforming operation of the partition walls 13 based on a drive voltage; and a nozzle plate 20 joined to a front end face of the head chip 10 through an adhesive, front end faces of the partition walls 13 facing the nozzle plate 20 through the adhesive, wherein the nozzle plate 20 has air groove portions 23 concaved from a joint surface of the head chip 10 at positions on the joint surface facing front end faces of the partition walls 13.

FIG. 1





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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 23 June 2016	Examiner Öztürk, Serkan
CATEGORY OF CITED DOCUMENTS 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		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	

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