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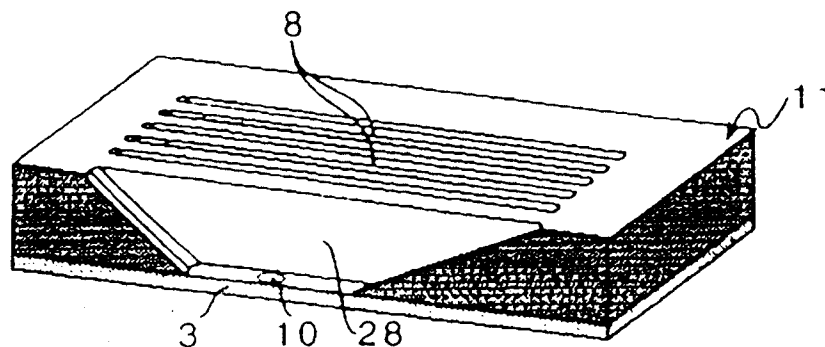
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al
KODAK AKTIENGESELLSCHAFT
Patentabteilung
D-70323 Stuttgart (DE)(54) **Ink-jet print head.**

(57) The invention relates to an ink-jet print head which functions according to the drop-on-demand principle. Said print head operates without the ink being subjected to heat and is suited for high resolution. Proceeding from an ink-jet print head having a plurality of ink channels which are separated from each other by walls (8) forming integral units of an insulating housing (11), it is proposed that the surfaces of the separating walls (8), limiting the channels, be provided with conductive coatings (28). In order that a drop be ejected, the coatings (28) asso-

ciated with the ink channel (16) concerned are pulsewise provided with charges of opposite polarities. Due to the electrostatic attraction forces of the coatings (28), the separating walls (8) limiting the ink channel (16) concerned move toward each other at least partially and cause excess pressure to be produced in the ink channel (16), which leads to the ejection of an ink drop. During printing breaks, readiness for use can be determined by measuring the capacity of the coatings (28) associated with an ink channel (16).

**FIG 3****EP 0 611 654 A3**



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EUROPEAN SEARCH REPORT

Application Number
EP 94 10 1961

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.5)
Y	US-A-4 520 375 (KROLL) * column 1, line 5 - line 55; figure 1 * ---	1,2	B41J2/16
Y,D A,D	WO-A-91 17891 (MANNESMANN AG) * page 5, line 17 - page 9, line 2; figures 3-5 * ---	1,2 3-5	
A	EP-A-0 513 971 (TOKYO ELECTRIC CO.,LTD.) * page 3, line 33 - page 4, line 25 * * page 6, line 17 - line 24; figures 1,5C *	1,5,6	
A	EP-A-0 516 284 (BROTHER KOGYO K.K.) * column 4, line 11 - column 6, line 20; figures 1-4 * -----	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.5)
			B41J
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 30 November 1994	Examiner Rivero, C
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			