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(54) **Bubble jet head and bubble jet apparatus employing the same**

Mit Bläschen angetriebener Druckkopf und Vorrichtung welche denselben verwendet

Tête à projection par bulles at appareil utilisant cette tête

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(56) References cited:
EP-A- 0 549 211 EP-A- 0 568 247
EP-A- 0 641 654 EP-A- 0 691 204
EP-A- 0 694 398 DE-A- 19 505 465
US-A- 4 611 219 US-A- 5 132 707

• **PATENT ABSTRACTS OF JAPAN vol. 013, no.**
296 (M-846), 10 July 1989 & JP 01 087356 A
(CANON INC), 31 March 1989

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EP 0 822 080 B8