

Title (en)

Liquid discharging head and liquid discharging device

Title (de)

Flüssigkeitsausstosskopf und Vorrichtung zum Ausstossen von Flüssigkeit

Title (fr)

Tête d'éjection de liquide et appareil d'éjection de liquide

Publication

**EP 0816092 A3 19981209 (EN)**

Application

**EP 97304888 A 19970704**

Priority

- JP 17666196 A 19960705
- JP 17947597 A 19970704

Abstract (en)

[origin: EP0816092A2] A liquid discharging head comprising a discharge opening for discharging a liquid, a bubble generation region for generating a bubble by applying heat to the liquid by a heat generating member, and a movable member so positioned as to face the bubble generation region and arranged as displaceable between a first position and a second position more distant from the bubble generation region than the first position, the movable member being displaced from the first position to the second position by pressure based on generation of the bubble in the bubble generation region and the bubble being made to expand more downstream than upstream with respect to a direction toward the discharge opening by displacement of the movable member, thereby discharging the liquid, wherein in the heat generating member there exists a bubbling region involved in the generation of bubble, centers of widths of the heat generating member and an effective bubbling region with respect to a flow direction of the liquid are identical, and conditions of the bubble generation region are given as follows: the width of the effective bubbling region  $\leq$  the width of the bubble generation region  $\leq$  the width of the heat generating member. <IMAGE>

IPC 1-7

**B41J 2/14**; **B41J 2/05**

IPC 8 full level

**B41J 2/175** (2006.01); **B41J 2/05** (2006.01); **B41J 2/14** (2006.01)

CPC (source: EP)

**B41J 2/14048** (2013.01)

Citation (search report)

- [X] US 5278585 A 19940111 - KARZ ROBERT S [US], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 017, no. 493 (M - 1475) 7 September 1993 (1993-09-07)

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