

Title (en)
PRINT HEAD AND PRINTING METHOD

Title (de)
DRUCKKOPF UND DRUCKVERFAHREN

Title (fr)
TÊTE D'IMPRESSION ET PROCÉDÉ D'IMPRESSION

Publication
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Application
EP 19706369 A 20190208

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Abstract (en)
[origin: WO2019154558A1] Print head, comprising a capillary (4) which adjoins at least one elastic element (7) around an axis of symmetry (3) for a liquid to be printed with a nozzle opening (5) which opens into a pre-chamber (8), wherein the pre-chamber has an outlet opening (2), which is aligned with respect to the nozzle opening of the capillary in its axial orientation of the axis of symmetry (3), and at least one inlet opening (11) for a guiding gas (13), the at least one elastic element forms a guide for the capillary only in its axial orientation, and feeding means (12) for the liquid to be printed into the capillary are provided. The problem consists in proposing a print head which is particularly suitable for printing even three-dimensional structures. The problem is solved by way of a print head, wherein a mechanical vibration system is provided comprising the at least one elastic element (7) and the capillary (4) with the liquid which is contained therein, and an actuator (10) with a mechanical or magnetic interaction of force with the vibration system is provided.

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