

Title (en)

INKJET PRINT HEAD AND METHOD OF MANUFACTURING SUCH PRINT HEAD

Title (de)

TINTENSTRAHLDRUCKKOPF UND VERFAHREN ZUR HERSTELLUNG SOLCH EINES DRUCKKOPFES

Title (fr)

ENSEMBLE TÊTE D'IMPRESSION À JET D'ENCRE ET PROCÉDÉ DE FABRICATION D'UNE TELLE TÊTE D'IMPRESSION À JET D'ENCRE

Publication

EP 3421242 B1 20220518 (EN)

Application

EP 18179243 A 20180622

Priority

EP 17178433 A 20170628

Abstract (en)

[origin: EP3421242A1] An inkjet print head comprises a silicon part having at least a part of a fluidic path arranged therein. A method of manufacturing such inkjet print head comprises the steps of electrically connecting the silicon part to an electrical source; providing an alkaline fluid in the fluidic path; electrically connecting the alkaline fluid to the electrical source; and applying a voltage over the alkaline fluid and the silicon part, wherein the voltage is higher than a passivation voltage to form an oxide layer on a surface part of the silicon part, which surface part is in contact with the alkaline fluid. The oxide layer prevents against undesired etching of silicon by the alkaline fluid that is being ejected by the inkjet print head.

IPC 8 full level

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CPC (source: EP)

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