

Title (en)

Method for manufacturing an ink jet recording head

Title (de)

Verfahren zur Herstellung eines Farbstrahlaußzeichnungskopfes

Title (fr)

Méthode pour la production d'une tête d'enregistrement à jet d'encre

Publication

EP 0495649 B1 19970820 (EN)

Application

EP 92300353 A 19920116

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- JP 4355591 A 19910308
- JP 4365891 A 19910308
- JP 4365991 A 19910308
- JP 4367291 A 19910308

Abstract (en)

[origin: EP0495649A1] A method for manufacturing an ink jet head, which is provided with discharging ports, ink passes conductively connected to the discharging ports, and energy generating elements for generating energy to be utilized for discharging . ink, comprises the processes of giving hydrophilic property to the side of the discharging port formation plane of a work piece for constructing the discharging ports, forming an intermediate layer having a coupling agent containing Si on the plane to which the hydrophilic property is given, and forming a water repellence layer on the upper layer of the intermediate layer. Then, after machining the discharging ports by irradiating a pulse laser onto the plane of the discharging port formation member having the water repellence layer, the hydrophilic by-product generated in the vicinity of the discharging ports when the discharging ports are machined is removed to recover the water repellency around the discharging ports, thereby to enable the prevention of the adhesion of ink thereto. Hence preventing the degradation of the printing quality. <IMAGE>

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Cited by

US6361145B1; EP1072420A3; EP0864428A3; EP1013441A3; EP1559555A1; EP0931655A1; EP0585854A1; US5649359A; US5703630A; WO9608375A1; WO0030799A1; US6341842B1; US6748657B1; US6313435B1; US6312115B1; US6854834B2; US6929359B2; US7086723B2

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