

Title (en)

INKJET HEAD, INKJET RECORDING DEVICE AND METHOD FOR PRODUCING INKJET HEAD

Title (de)

TINTENSTRAHLKOPF, TINTENSTRAHLAUFZEICHNUNGSVORRICHTUNG UND VERFAHREN ZUR HERSTELLUNG EINES TINTENSTRAHLKOPFS

Title (fr)

TÊTE À JET D'ENCRE, DISPOSITIF D'ENREGISTREMENT À JET D'ENCRE ET PROCÉDÉ DE PRODUCTION DE TÊTE À JET D'ENCRE

Publication

EP 3653386 A4 20200708 (EN)

Application

EP 18831247 A 20180530

Priority

- JP 2017134723 A 20170710
- JP 2018020648 W 20180530

Abstract (en)

[origin: EP3653386A1] The present invention addresses the problem of improving reactivity with liquid repellent agents and resistance to inks of the ejection surface side of a nozzle substrate, thereby preventing decrease in the liquid repellency of the ejection surface side of the nozzle substrate. An inkjet head of an inkjet recording device according to the present invention is provided with a nozzle substrate 40A. The nozzle substrate 40A comprises: a base material part 41 that is provided with a nozzle 2411 from which an ink is ejected; a liquid-repellent-layer base film 42A that is formed on the ejection surface side of the base material part 41 and has a silicon carboxide film; and a liquid repellent layer 43 that is formed on the ejection surface side of the liquid-repellent-layer base film 42A.

IPC 8 full level

B41J 2/14 (2006.01); **B41J 2/16** (2006.01); **B41J 2/165** (2006.01)

CPC (source: EP)

B41J 2/14233 (2013.01); **B41J 2/1606** (2013.01); **B41J 2/162** (2013.01); **B41J 2/1625** (2013.01); **B41J 2/1628** (2013.01); **B41J 2/1629** (2013.01); **B41J 2/1631** (2013.01); **B41J 2/1632** (2013.01); **B41J 2/1634** (2013.01); **B41J 2/1642** (2013.01); **B41J 2/1646** (2013.01); **B41J 2/165** (2013.01)

Citation (search report)

- [A] JP 2011183646 A 20110922 - FUJIFILM CORP
- [A] JP 2011194668 A 20111006 - FUJIFILM CORP
- See references of WO 2019012829A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3653386 A1 20200520; **EP 3653386 A4 20200708**; **EP 3653386 B1 20220629**; CN 110869213 A 20200306; CN 110869213 B 20220419; JP WO2019012829 A1 20200521; WO 2019012829 A1 20190117

DOCDB simple family (application)

EP 18831247 A 20180530; CN 201880045420 A 20180530; JP 2018020648 W 20180530; JP 2019528972 A 20180530