

Title (en)
INKJET HEAD AND INKJET RECORDING DEVICE

Title (de)
TINTENSTRAHLKOPF UND TINTENSTRAHLAUFZEICHNUNGSVORRICHTUNG

Title (fr)
TÊTE À JET D'ENCRE ET DISPOSITIF D'IMPRESSION À JET D'ENCRE

Publication
EP 3636438 A1 20200415 (EN)

Application
EP 18812806 A 20180528

Priority
• JP 2017113966 A 20170609
• JP 2018020289 W 20180528

Abstract (en)
In order to alleviate imbalances in temperature in the pressure chambers inside of a head tip, this inkjet head is provided with multiple nozzles 111 which inject ink, pressure chambers 131 which communicate with each of the nozzles and in which ink is stored, a pressure generating means (the partition wall 136) which pressurizes the ink in the pressure chamber, individual ink discharge paths 121 which are provided branching from each of the pressure chambers and which can discharge the ink in said pressure chambers, and a common ink discharge path 133 which to which the individual ink discharge paths are linked. The nozzles and pressure chambers form rows R1 to R4 in a direction along two opposite outer surfaces DS of the head chip 1, and said rows are arranged side by side in a direction perpendicular to the outer surface. The common ink discharge path 133 is provided extending in a direction along the two outer surfaces. The common ink discharge path is arranged only in two outermost regions (D1+D2), which are near one outer surface and do not have the aforementioned rows R1-R4 interposed therebetween, and/or a center region D4 between the two outer surfaces.

IPC 8 full level
B41J 2/14 (2006.01); **B41J 2/18** (2006.01)

CPC (source: EP)
B41J 2/14209 (2013.01); **B41J 2/18** (2013.01); **B41J 2002/14403** (2013.01); **B41J 2002/14419** (2013.01); **B41J 2202/12** (2013.01); **B41J 2202/20** (2013.01); **B41J 2202/21** (2013.01)

Cited by
EP4289625A4

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 3636438 A1 20200415; **EP 3636438 A4 20200513**; **EP 3636438 B1 20210811**; CN 110709251 A 20200117; CN 110709251 B 20211109; JP 7078044 B2 20220531; JP WO2018225553 A1 20200416; WO 2018225553 A1 20181213

DOCDB simple family (application)
EP 18812806 A 20180528; CN 201880037320 A 20180528; JP 2018020289 W 20180528; JP 2019523458 A 20180528