

Title (en)
INK JET PRINT HEAD

Title (de)
TINTENSTRAHLDRUCKKOPF

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

Publication
EP 4126551 B1 20230823 (DE)

Application
EP 21712780 A 20210315

Priority
• DE 102020108317 A 20200326
• EP 2021056548 W 20210315

Abstract (en)
[origin: WO2021190978A1] The invention relates to an ink jet print head for printing on a substrate, comprising: at least one nozzle, adapted to dispense at least one electrically conductive liquid droplet; and an outlet duct arranged on the nozzle, through which outlet duct the electrically conductive liquid droplet can be dispensed in the direction of the substrate to be printed on; wherein an accelerating means is provided on the outlet duct and is adapted to generate a current flow through the electrically conductive liquid droplet and to generate a magnetic field in order to accelerate the electrically conductive liquid droplet by means of a force in the outlet duct in the direction of the substrate to be printed on. The invention also relates to a printing apparatus and a method for printing on a substrate.

IPC 8 full level
B41J 2/04 (2006.01); **B41J 2/14** (2006.01)

CPC (source: EP)
B41J 2/04 (2013.01); **B41J 2/14201** (2013.01); **B41J 2002/041** (2013.01); **B41J 2202/04** (2013.01)

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

DOCDB simple family (publication)
DE 102020108317 A1 20210930; EP 4126551 A1 20230208; EP 4126551 B1 20230823; JP 2023518587 A 20230502; JP 7389271 B2 20231129; WO 2021190978 A1 20210930

DOCDB simple family (application)
DE 102020108317 A 20200326; EP 2021056548 W 20210315; EP 21712780 A 20210315; JP 2022557944 A 20210315