

Title (en)
LIQUID EJECTION HEAD

Title (de)
FLÜSSIGKEITSAUSSTOSSKOPF

Title (fr)
TÊTE D'ÉJECTION DE LIQUIDE

Publication
EP 4286165 A1 20231206 (EN)

Application
EP 22211303 A 20221205

Priority
JP 2022090904 A 20220603

Abstract (en)
According to one embodiment, a liquid ejection head includes an actuator unit, a nozzle plate, and a diaphragm portion. The actuator unit has grooves constituting a plurality of pressure chambers and a plurality of sidewalls formed between the grooves constituting the pressure chambers. The nozzle plate is disposed to face one side of the plurality of pressure chambers. The diaphragm portion has an diaphragm wall that blocks a portion of a communication port of the pressure chamber that communicates with a common chamber of the actuator unit and forms a diaphragm aperture that is decreased in width on the one side in a depth direction of the pressure chamber.

IPC 8 full level
B41J 2/14 (2006.01); **B41J 2/16** (2006.01)

CPC (source: EP)
B41J 2/14209 (2013.01); **B41J 2/1609** (2013.01); **B41J 2/1623** (2013.01); **B41J 2/1631** (2013.01); **B41J 2/1632** (2013.01); **B41J 2002/14362** (2013.01); **B41J 2002/14491** (2013.01)

Citation (search report)

- [A] JP 2016159441 A 20160905 - SII PRINTEK INC
- [A] US 2015109373 A1 20150423 - Horiguchi Satoshi [JP]
- [A] US 2020290354 A1 20200917 - Shimosato Masashi [JP]

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4286165 A1 20231206; CN 117162668 A 20231205; JP 2023177931 A 20231214

DOCDB simple family (application)
EP 22211303 A 20221205; CN 202310081435 A 20230117; JP 2022090904 A 20220603