

Title (en)
LIQUID DISCHARGE DEVICE

Title (de)
FLÜSSIGKEITSAUSSTOSSVORRICHTUNG

Title (fr)
DISPOSITIF DE DÉCHARGE DE LIQUIDE

Publication
EP 3892472 A1 20211013 (EN)

Application
EP 21167107 A 20210407

Priority
JP 2020070802 A 20200410

Abstract (en)
There is provided a liquid discharge device that detachably holds a liquid tank 10 including a valve 14 in a bottom portion 12, the device including: a body case 21 that accommodates a power device. The body case 21 includes an upper wall 23 that faces the bottom portion 12 of the liquid tank 10 to support the liquid tank 10, and a nozzle 40 that protrudes from the upper wall 23 to be connected to the valve 14. The upper wall 23 includes a recessed portion 31 that surrounds the nozzle 40, a groove 36 that is formed to be deeper than a depth of the recessed portion 31, and a flow path 37a that connects the recessed portion 31 and the groove 36.

IPC 8 full level
B41J 2/175 (2006.01)

CPC (source: EP)
B41J 2/17509 (2013.01); **B41J 2/17523** (2013.01); **B41J 2/17553** (2013.01)

Citation (applicant)
JP 2016002537 A 20160112 - HITACHI KOKI KK

Citation (search report)
• [X] US 2016263902 A1 20160915 - KIMURA NAOMI [JP], et al
• [X] US 2018345675 A1 20181206 - KAWAGOE MASAKO [JP], et al
• [I] US 9290001 B2 20160322 - KUDO SHOMA [JP], et al
• [A] US 2016347075 A1 20161201 - MATSUDA TAKANORI [JP], et al
• [A] US 2016271962 A1 20160922 - OMURO MAKOTO [JP], et al

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 3892472 A1 20211013; JP 2021167075 A 20211021; JP 7406442 B2 20231227

DOCDB simple family (application)
EP 21167107 A 20210407; JP 2020070802 A 20200410