

Title (en)
INSPECTION METHOD OF LIQUID DISCHARGE HEAD AND LIQUID DISCHARGE DEVICE

Title (de)
VERFAHREN ZUR PRÜFUNG EINES FLÜSSIGKEITSABGABEKOPFS UND FLÜSSIGKEITSABGABEVORRICHTUNG

Title (fr)
PROCÉDÉ D'INSPECTION DE TÊTE D'ÉJECTION DE LIQUIDE ET DISPOSITIF DE DÉCHARGE DE LIQUIDE

Publication
EP 3045314 A3 20160921 (EN)

Application
EP 16151806 A 20160119

Priority
JP 2015007387 A 20150119

Abstract (en)
[origin: EP3045314A2] Inspection processing is performed. The inspection processing includes a first driving step of driving a piezoelectric element (18a) corresponding to an inspection target nozzle (23a), a first detection step of detecting vibration that is generated in ink in a pressure chamber (20) corresponding to the inspection target nozzle by the driving in the first driving step, a second driving step of driving together the piezoelectric element corresponding to the inspection target nozzle and a piezoelectric element (18b) corresponding to at least one nozzle (23b) of nozzles adjacent to the inspection target nozzle, a second detection step of detecting vibration that is generated in the ink in the pressure chamber corresponding to the inspection target nozzle by the driving in the second driving step, and a separation detection step of detecting separation of a member (15, 16) joined to the partition wall (13) of the pressure chamber based on a difference between a detection result of the first detection step and a detection result of the second detection step.

IPC 8 full level
B41J 2/045 (2006.01)

CPC (source: EP)
B41J 2/0451 (2013.01); **B41J 2/04541** (2013.01); **B41J 2/04581** (2013.01); **B41J 2/04588** (2013.01)

Citation (search report)
• [A] US 2013135400 A1 20130530 - YAZAKI SHIRO [JP], et al
• [A] US 2009085985 A1 20090402 - MATSUZAWA AKIRA [JP]
• [A] US 2012206532 A1 20120816 - KIM BYUNG HUN [KR], et al

Cited by
JP2021035742A; US11376844B2

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 3045314 A2 20160720; EP 3045314 A3 20160921; EP 3045314 B1 20171129; JP 2016135585 A 20160728; JP 6613840 B2 20191204

DOCDB simple family (application)
EP 16151806 A 20160119; JP 2015226569 A 20151119