

Title (en)
LIQUID DISCHARGING APPARATUS

Title (de)
FLÜSSIGKEITSABGABEVORRICHTUNG

Title (fr)
APPAREIL DE DÉCHARGE DE LIQUIDE

Publication
EP 3708380 B1 20230510 (EN)

Application
EP 20161550 A 20200306

Priority
JP 2019047192 A 20190314

Abstract (en)
[origin: EP3708380A2] A liquid discharging apparatus (1) includes a liquid discharging head (220) including nozzles arranged linearly and configured to discharge liquid onto a recording medium (P) conveyed by a conveying unit (210); a scanner (231, 232) installed in such a manner that a main-scanning direction of the scanner (231, 232) is aligned with a direction in which the nozzles of the liquid discharging head (220) are arranged; a chart generating unit (101) configured to generate a defective nozzle detection chart (C) in which lines (L) in a sub-scanning direction corresponding to the respective nozzles of the liquid discharging head (220) are arranged; and a position detecting unit (102) configured to perform an interpolating process on pixel values of a plurality of pixels around a line position detected from pixel values of scanned data of the defective nozzle detection chart (C) scanned by a scanner (231, 232), and detect a position where a differential of an interpolation function derived from the interpolating process is zero, as a line position.

IPC 8 full level
B41J 29/38 (2006.01); **B41J 2/21** (2006.01); **B41J 25/00** (2006.01); **B41J 29/393** (2006.01)

CPC (source: EP)
B41J 2/2142 (2013.01); **B41J 29/38** (2013.01); **B41J 29/393** (2013.01); **B41J 2/2146** (2013.01); **B41J 2025/008** (2013.01); **B41J 2029/3935** (2013.01)

Citation (examination)
EP 2468515 B1 20140416 - FUJIFILM CORP [JP]

Cited by
EP4311679A1; EP4321344A1

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)
EP 3708380 A2 20200916; EP 3708380 A3 20210407; EP 3708380 B1 20230510; JP 2020146947 A 20200917; JP 7211176 B2 20230124

DOCDB simple family (application)
EP 20161550 A 20200306; JP 2019047192 A 20190314