

Title (en)

PRINT HEAD CONTROL CIRCUIT AND LIQUID DISCHARGE APPARATUS

Title (de)

DRUCKKOPFSTEUERSCHALTUNG UND FLÜSSIGKEITSAUSSTOSSVORRICHTUNG

Title (fr)

CIRCUIT DE COMMANDE DE TÊTE D'IMPRESSION ET APPAREIL DE DÉCHARGE DE LIQUIDE

Publication

**EP 3693172 A3 20200909 (EN)**

Application

**EP 19198477 A 20190919**

Priority

- JP 2018174366 A 20180919
- JP 2019036734 A 20190228

Abstract (en)

Provided is a print head control circuit in which a first diagnostic signal wiring group includes first diagnostic signal propagation wiring that propagates a first diagnostic signal, second diagnostic signal propagation wiring that propagates a second diagnostic signal, and third diagnostic signal propagation wiring that propagates a third diagnostic signal, a second diagnostic signal wiring group includes fourth diagnostic signal propagation wiring that propagates a fourth diagnostic signal, and fifth diagnostic signal propagation wiring that propagates a fifth diagnostic signal, the first drive signal wiring group, the second drive signal wiring group, the third drive signal wiring group, and the fourth drive signal wiring group propagate a first drive signal and a second drive signal that cause liquid to be discharged, in a first cable, the first diagnostic signal wiring group is provided between the first drive signal wiring group and the second drive signal wiring group, and in a second cable, the second diagnostic signal wiring group is provided between the third drive signal wiring group and the fourth drive signal wiring group.

IPC 8 full level

**B41J 2/045** (2006.01); **B41J 2/14** (2006.01)

CPC (source: CN EP)

**B41J 2/01** (2013.01 - CN); **B41J 2/04501** (2013.01 - CN); **B41J 2/0451** (2013.01 - EP); **B41J 2/04541** (2013.01 - EP); **B41J 2/04563** (2013.01 - EP); **B41J 2/04581** (2013.01 - EP); **B41J 2/04588** (2013.01 - EP); **B41J 2/04593** (2013.01 - EP); **B41J 2002/14354** (2013.01 - EP)

Citation (search report)

- [Y] US 2017173950 A1 20170622 - HAYASHI HIROKI [JP]
- [Y] US 2014247299 A1 20140904 - KAMEYAMA HIROAKI [JP], et al
- [Y] JP 2000190488 A 20000711 - SEIKO EPSON CORP

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 3693172 A2 20200812**; **EP 3693172 A3 20200909**; **EP 3693172 B1 20221012**; CN 211416643 U 20200904; JP 2020049931 A 20200402; JP 7272013 B2 20230512

DOCDB simple family (application)

**EP 19198477 A 20190919**; CN 201921547873 U 20190918; JP 2019036734 A 20190228