

Title (en)

Liquid-Discharge-Failure Detecting Apparatus, Inkjet Recording Apparatus, and Method of Detecting Liquid Discharge Failure

Title (de)

Vorrichtung zur Erkennung von Fehlern bei der Flüssigkeitsentladung, Tintenaufzeichnungsvorrichtung und Verfahren zur Erkennung von Fehlern bei der Flüssigkeitsentladung

Title (fr)

Appareil de détection d'erreur de décharge de liquide, appareil d'enregistrement à jet d'encre, et procédé de détection d'erreur de décharge de liquide

Publication

EP 2159058 B1 20100505 (EN)

Application

EP 08162275 A 20080813

Priority

EP 08162275 A 20080813

Abstract (en)

[origin: EP2159058A1] A light-emitting element (30) emits a beam onto a droplet discharged from a nozzle (16). A light-receiving element (33) receives a scattered light generated by scattering of the beam by the droplet. A discharge-speed controller controls a speed of discharge of the droplet from the nozzle (16) to be set at the speed outside a normal discharge-speed range that is determined depending on a viscosity of a liquid. Finally, a failure detecting unit detects a liquid discharge failure from data of the scattered light received by the light-receiving element (33).

IPC 8 full level

B41J 2/125 (2006.01); **B41J 2/165** (2006.01)

CPC (source: EP)

B41J 2/125 (2013.01); **B41J 2/16579** (2013.01)

Cited by

JP2015202601A; EP3580042A4; US11338517B2

Designated contracting state (EPC)

DE ES FR GB IT NL

DOCDB simple family (publication)

EP 2159058 A1 20100303; **EP 2159058 B1 20100505**; DE 602008001161 D1 20100617; ES 2342034 T3 20100630

DOCDB simple family (application)

EP 08162275 A 20080813; DE 602008001161 T 20080813; ES 08162275 T 20080813