

Title (en)

INK DELIVERY SYSTEM FOR SUPPLYING INK TO MULTIPLE PRINTHEADS AT CONSTANT PRESSURE

Title (de)

TINTENZUFÜHRSYSTEM FÜR DIE TINTENVERSORGUNG MEHRERER DRUCKKÖPFE BEI KONSTANTEM DRUCK

Title (fr)

SYSTÈME DE DISTRIBUTION D'ENCRE POUR ACHEMINER DE L'ENCRE VERS DE MULTIPLES TÊTES D'IMPRESSION À UNE PRESSION CONSTANTE

Publication

EP 3452292 B1 20210616 (EN)

Application

EP 17720382 A 20170412

Priority

- US 201662330785 P 20160502
- EP 2017058893 W 20170412

Abstract (en)

[origin: WO2017190934A1] An ink delivery system for an inkjet printer includes: a positive ink line having a controlled positive ink pressure; a negative ink line having a controlled negative ink pressure; one or more print modules interconnected between the positive ink line and the negative ink line via respective inlet and outlet lines. Each print module includes: a printhead; a control valve positioned at an inlet port of the print module for controlling an ink pressure in the printhead; an ink pressure sensor for sensing an ink pressure in the print module; and a controller for receiving feedback from the pressure sensor and controlling the control valve. During printing, the ink pressure sensor, the controller and the control valve cooperate to control a backpressure in the printhead within a predetermined backpressure range.

IPC 8 full level

B41J 2/175 (2006.01)

CPC (source: EP)

B41J 2/175 (2013.01)

Citation (examination)

- EP 2050572 A2 20090422 - FUJIFILM CORP [JP], et al
- US 2016089897 A1 20160331 - NISHIYAMA AKIRA [JP]
- JP 2011068033 A 20110407 - FUJIFILM CORP
- US 2007081052 A1 20070412 - LEBRON HECTOR J [US], et al
- US 2013169710 A1 20130704 - KEEFE BRIAN J [US], et al
- US 5880748 A 19990309 - CHILDERS WINTHROP D [US], 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

DOCDB simple family (publication)

WO 2017190934 A1 20171109; AU 2017259594 A1 20181025; AU 2017259594 B2 20190509; CN 109153265 A 20190104; CN 109153265 B 20200821; EP 3452292 A1 20190313; EP 3452292 B1 20210616; JP 2019514732 A 20190606; SG 11201807298V A 20181129

DOCDB simple family (application)

EP 2017058893 W 20170412; AU 2017259594 A 20170412; CN 201780027028 A 20170412; EP 17720382 A 20170412; JP 2018555754 A 20170412; SG 11201807298V A 20170412