

Title (en)

Method and device for nozzle cleaning in inkjet printers, and printhead and printer using this device

Title (de)

Verfahren und Vorrichtung zur Reinigung von Tintenstrahldruckerdüsen und Druckkopf und Drucker welche diese Vorrichtung verwenden

Title (fr)

Procédé et dispositif de nettoyage de buses pour imprimantes à jet d'encre, et tête d'impression et imprimante intégrant un tel dispositif

Publication

**EP 1190858 B1 20060614 (FR)**

Application

**EP 01402453 A 20010925**

Priority

FR 0012204 A 20000926

Abstract (en)

[origin: EP1190858A1] Cleaner for ink ejection bus (18) of an ink jet printer. The cleaner has a fixed spray head (22), situated in front of the ink ejection bus (18), which sprays a cleaning solvent. The head then blows dry air towards the bus (18) along an oblique direction with respect to the ink jet, when the printer is started. The spray head has an orifice with diameter 5 to 15 times that of the bus (18). The distance between the spray head and the ink jet bus is from 5 to 15 times the heads diameter. The spray head is placed at the end of a feed pipe (24) designed to be connected to a solvent reservoir (26) by a first electro-valve (28) and to a compressed air circuit by a second electro-valve (32), or by a three way electro-valve. The electro-valves are connected to a programmable central control unit (34), designed to regulate the spray head solvent and air volumes and pressures as a function of the ink used in the printer. A porous recuperation surface is provided to collect the cleaning residue.

IPC 8 full level

**B41J 2/165** (2006.01)

CPC (source: EP US)

**B41J 2/16552** (2013.01 - EP US); **B41J 2/185** (2013.01 - EP US)

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

**EP 1190858 A1 20020327; EP 1190858 B1 20060614;** CN 1283465 C 20061108; CN 1343565 A 20020410; DE 60120580 D1 20060727; FR 2814395 A1 20020329; FR 2814395 B1 20030328; JP 2002103636 A 20020409; US 2002036670 A1 20020328; US 6550889 B2 20030422

DOCDB simple family (application)

**EP 01402453 A 20010925;** CN 01138467 A 20010926; DE 60120580 T 20010925; FR 0012204 A 20000926; JP 2001284887 A 20010919; US 96159801 A 20010924