

Title (en)

Ink solvent dispenser system for inkjet printheads

Title (de)

Tintenlösemittelspendersystem für Tintenstrahldruckköpfe

Title (fr)

Système distributeur de solvant d'encre pour tête d'imprimante à jet d'encre

Publication

EP 0914952 A2 19990512 (EN)

Application

EP 98112898 A 19980710

Priority

US 96505397 A 19971105

Abstract (en)

An ink solvent dispenser system (100; 120) is provided for cleaning a printhead (70, 72, 74, 76) in an inkjet printing mechanism (20). The dispenser (100; 120) has an enclosure shell (102; 122) defining a reservoir (104; 124) filled with an ink solvent (110), such as polyethylene glycol ("PEG"). A back-pressure device (105; 125), such as a porous body (106) or a spring-bag structure (126, 128), is located inside the reservoir (104; 124) to prevent ink solvent leakage. The dispenser (100; 120) has a sintered, high density polyethylene plastic applicator (108; 135) in fluid communication with the ink solvent (110) stored within the reservoir (104; 124) in a space-efficient manner. The applicator (108; 135) uses capillary forces to extract the ink solvent (110) from the reservoir (104; 124) for application to a printhead wiper (90, 92, 94, 96) contacting the applicator (108; 135). The wiper (90, 92, 94, 96) wipes across the printhead (70, 72, 74, 76), after which ink residue (112) is scraped (114) from the wiper (90, 92, 94, 96) prior to receiving the next dose of solvent (110). A method is also provided of dispensing ink solvent (110), along with an inkjet printing mechanism (20) having provisions for replaceably receiving the ink solvent dispenser system (100; 120). <IMAGE>

IPC 1-7

B41J 2/165

IPC 8 full level

B41J 2/165 (2006.01); **B41J 2/175** (2006.01)

CPC (source: EP)

B41J 2/16552 (2013.01); **B41J 2/16541** (2013.01)

Cited by

CN112440578A; EP1762391A1; GB2389079A; GB2389079B; GB2357735A; GB2357735B; US7556342B2; US7229149B2; US6561619B1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0914952 A2 19990512; **EP 0914952 A3 20000426**; JP H11198410 A 19990727

DOCDB simple family (application)

EP 98112898 A 19980710; JP 31277998 A 19981104