

Title (en)
PRESSURIZABLE LIQUID INK CARTRIDGE FOR COINCIDENT FORCES PRINTERS

Title (de)
TINTENSTRAHLDRUCKKARTUCHE FÜR DRUCKER MIT ZUSAMMENFALLENDEN KRÄFTEN

Title (fr)
CARTOUCHE D'ENCRE LIQUIDE MISE SOUS PRESSION, DESTINEE A DES IMPRIMANTES A FORCES COINCIDENTES

Publication
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Application
EP 96912692 A 19960409

Priority
• AU PN232095 A 19950412
• US 9605017 W 19960409

Abstract (en)
[origin: WO9632287A1] A removable ink cartridge (770) and cartridge connection system suitable for use with printing systems requiring pressurized ink. The ink cartridge (770) consists of a rigid box (771) containing vessels of ink (772, 775) which include at least one flexible surface. For a monochrome ink cartridge, one ink vessel is sufficient. For a full color "process" printer, four ink vessels are used. These vessels contain cyan, magenta, yellow and black ink, respectively. The ink cartridge uses a single pressurizing system to provide pressure to all four of the ink colors. This is achieved by pressurizing the fluid surrounding the ink vessels inside the ink cartridge. As the ink vessels (772, 775) include a flexible membrane, the pressure inside the ink cartridge (770) is transmitted to the ink.

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Citation (examination)
• US 4737803 A 19880412 - FUJIMURA YOSHIHIKO [JP], et al
• US 4752783 A 19880621 - SAITO KOICHI [JP], et al
• WO 9014233 A1 19901129 - PA CONSULTING SERVICES [GB]
• US 4293865 A 19811006 - JINNAI KOICHIRO, et al
• US 3916419 A 19751028 - FAN GEORGE J, et al
• US 4312009 A 19820119 - LANGE FRANCOIS
• US 4748458 A 19880531 - INOUE NANA O [JP], et al
• US 4275290 A 19810623 - CIELO PAOLO, et al
• PATENT ABSTRACTS OF JAPAN vol. 010, no. 066 (M - 461) 15 March 1986 (1986-03-15)
• PATENT ABSTRACTS OF JAPAN vol. 012, no. 437 (M - 765) 17 November 1988 (1988-11-17)

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