

Title (en)
Liquid containment and dispensing device

Title (de)
Behälter und Ausgabevorrichtung für Flüssigkeit

Title (fr)
Dispositif de distribution et de rétention de liquide

Publication
EP 0870618 A2 19981014 (EN)

Application
EP 98106744 A 19980414

Priority
US 83704097 A 19970411

Abstract (en)
An ink containment and dispensing device for an ink-jet printer is provided with a main reservoir in the form of a flexible pouch, which is typically maintained at ambient pressure. The main reservoir is coupled to a variable volume chamber via a one-way valve which allows the flow of ink from the reservoir to the chamber and prevents the flow of ink from the chamber to the reservoir. The chamber is coupled to a fluid outlet, which is normally closed to prevent the flow of outward ink. However, when the ink supply is installed in a printer, the fluid outlet establishes a fluid connection between the chamber and the printer. The chamber is part of a pump provided with the ink supply that can be actuated to supply ink from the reservoir to the printer. The pump has a linearly acting pumping member and a flexible diaphragm that overlies the pumping member, the diaphragm being impervious to the transmission of oxygen and moisture therethrough to prevent degradation of the ink within the chamber. <IMAGE>

IPC 1-7
B41J 2/175

IPC 8 full level
B41J 2/175 (2006.01)

CPC (source: EP)
B41J 2/17513 (2013.01); **B41J 2/17553** (2013.01)

Cited by
RU2685037C1; US2019224904A1; JP2014193616A; EP3466696A1; FR3071768A1; US10625511B2; US6386693B1; US7771033B2; US10457055B2; WO2008100750A1; WO2017036490A1

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 0870618 A2 19981014; EP 0870618 A3 20001227; BR 9801017 A 19990928; CA 2234353 A1 19981011; CN 1198986 A 19981118; ID 21295 A 19990520; JP 2000043289 A 20000215; JP H1148496 A 19990223; KR 19980081301 A 19981125; SG 77174 A1 20001219; TW 414763 B 20001211

DOCDB simple family (application)
EP 98106744 A 19980414; BR 9801017 A 19980409; CA 2234353 A 19980408; CN 98108787 A 19980409; ID 980543 A 19980409; JP 13910898 A 19980413; JP 23496299 A 19990823; KR 19980012823 A 19980410; SG 1998000825 A 19980409; TW 87105437 A 19980410