

Title (en)

System for controlling ink temperature using a heated umbilical

Title (de)

Gerät zur Kontrolle der Tintentemperatur mittels einer erwärmten Verbindung

Title (fr)

Appareil pour contrôler la température d'encre muni d'un cable ombilical chauffé

Publication

EP 1013451 B1 20040915 (EN)

Application

EP 99309508 A 19991129

Priority

US 21106698 A 19981214

Abstract (en)

[origin: EP1013451A2] An improvement in the heating of ink in an ink jet printer having a printhead (34) and a fluid system (35) for supplying ink to the printhead via at least one umbilical (50), is provided. The improved ink heating technique proposes a fluid tube through which the ink flows and a heater (48) in close thermal contact with the fluid tube for supplying heat to a significant length of the fluid tubing. Thermal insulation can enclose the fluid tubing and the heater, and a protective covering can enclose the thermal insulation. An elastomeric layer can be situated between the fluid tubing and the heater, while maintaining close thermal contact between the fluid tubing and the heater. <IMAGE>

IPC 1-7

B41J 2/175

IPC 8 full level

B41J 2/07 (2006.01); **B41J 2/175** (2006.01)

CPC (source: EP)

B41J 2/072 (2013.01); **B41J 2/175** (2013.01)

Cited by

JP2015085513A; KR102558479B1; EP1238809A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1013451 A2 20000628; **EP 1013451 A3 20001129**; **EP 1013451 B1 20040915**; CA 2292231 A1 20000614; DE 69920151 D1 20041021; DE 69920151 T2 20050922; JP 2000218820 A 20000808

DOCDB simple family (application)

EP 99309508 A 19991129; CA 2292231 A 19991210; DE 69920151 T 19991129; JP 35275899 A 19991213