Title (en)

Liquid level sensor

Title (de)

FLÜSSIGKEITSSTANDSENSOR

Title (fr)

Détecteur de niveau de liquide

Publication

EP 1074390 A1 20010207 (EN)

Application

EP 99306161 A 19990803

Priority

EP 99306161 A 19990803

Abstract (en)

A sensor (1) for detecting the level of ink (10) in a chamber (9) in an ink jet printer, the sensor comprising: a polyimide sheet (2); a flexi-circuit formed on a first side of the polyimide sheet; a thermistor (3) mounted on the first side of the polyimide sheet in contact with the flexi-circuit, the other side of the sheet being arranged to form, in use, part of a wall of the chamber; wherein the amount of heat dissipated through the polyimide sheet and detected by the thermistor indicates the presence of absence of liquid adjacent to the sensor and hence provides level detection. <IMAGE>

IPC 1-7

B41J 2/175

IPC 8 full level

B41J 2/175 (2006.01); **G01F 23/22** (2006.01)

CPC (source: EP)

B41J 2/17566 (2013.01); B41J 2002/17579 (2013.01)

Citation (search report)

- [A] US 3868620 A 19750225 - MCBRIDE JR LYLE E, et al
- [A] US 4720997 A 19880126 - DOAK RONI K [US], et al
- [A] US 4609913 A 19860902 - ARBOGAST THOMAS P [US], et al
- [A] US 3955416 A 19760511 - WAIWOOD WILLIAM PAUL
- [A] US 5136305 A 19920804 - IMS DALE R [US]
- [A] US 4779460 A 19881025 - CRUICKSHANK WILLIAM T [US]
- [A] US 5146785 A 19920915 - RILEY RICHARD E [US]
- [A] US 5406315 A 19950411 - ALLEN ROSS R [US], et al

Cited by

US10933648B2; FR2827215A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 1074390 A1 20010207; AU 4871200 A 20010208; AU 736573 B2 20010802; CN 1288150 A 20010321; JP 2001047642 A 20010220

DOCDB simple family (application)

EP 99306161 A 19990803; AU 4871200 A 20000719; CN 00122567 A 20000803; JP 2000229331 A 20000728