

Title (en)

Lid heater for a continuous ink-jet printer

Title (de)

Lippenheizelement für kontinuierlich arbeitenden Tintenstrahldrucker

Title (fr)

Dispositif de chauffage d'une lèvre pour une imprimante à jet d'encre continu

Publication

**EP 0805030 B1 20000510 (EN)**

Application

**EP 97302692 A 19970421**

Priority

US 64023396 A 19960430

Abstract (en)

[origin: EP0805030A2] Ink concentration changes in continuous ink jet printing systems have been minimized by reducing evaporation rates. This has the effect of also minimizing airflow through the catcher. The reduced catcher flow is not capable of completely removing air around the jets when the eyelid is closed, so this air becomes saturated with water vapor due to localized evaporation from ink drops. This, in turn, causes the air temperature to approach the ink temperature, which is greater than the eyelid seal temperature. The saturated air condenses on the eyelid and, over time, the condensate fills the volume and drips out of the eyelid, or causes shorts to the high voltage electrode. The formation of condensate on the eyelid is eliminated by providing a heater element formed into the eyelid. <IMAGE>

IPC 1-7

**B41J 2/165**

IPC 8 full level

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

CPC (source: EP)

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Cited by

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DOCDB simple family (publication)

**EP 0805030 A2 19971105**; **EP 0805030 A3 19980603**; **EP 0805030 B1 20000510**; AU 1993697 A 19971106; AU 714382 B2 19991223; CA 2203953 A1 19971030; DE 69701920 D1 20000615; DE 69701920 T2 20001207; JP H1034963 A 19980210

DOCDB simple family (application)

**EP 97302692 A 19970421**; AU 1993697 A 19970430; CA 2203953 A 19970429; DE 69701920 T 19970421; JP 11238897 A 19970430