

Title (en)

HEATING RESISTOR AND THERMAL PRINTING HEAD USING SUCH A HEATING RESISTOR

Publication

**EP 0044756 B1 19840829 (FR)**

Application

**EP 81400923 A 19810611**

Priority

FR 8013967 A 19800624

Abstract (en)

[origin: US4413170A] An electrical heating resistor of the type deposited on a substrate plate constituting the basis element of a thermal printing head. In order to concentrate the heat given off in the free surface of said heating resistor towards the paper to print, the invention provides for the deposition on the substrate of at least one layer having a relatively constant resistivity and then at least one surface layer with a non-linear resistivity and a negative temperature coefficient. Starting from a high value when cold, the resistance of the surface layer drops abruptly as soon as it reaches the triggering temperature, thus switching the heat resistor by command of a control circuit.

IPC 1-7

**H01C 7/04**; **H01C 13/02**; **B41J 3/20**

IPC 8 full level

**B41J 2/335** (2006.01)

CPC (source: EP US)

**B41J 2/33515** (2013.01 - EP US); **B41J 2/33535** (2013.01 - EP US); **B41J 2/3355** (2013.01 - EP US); **B41J 2/3357** (2013.01 - EP US)

Cited by

EP0142964A3; EP0218372A1; US4769527A

Designated contracting state (EPC)

DE GB IT

DOCDB simple family (publication)

**EP 0044756 A2 19820127**; **EP 0044756 A3 19820210**; **EP 0044756 B1 19840829**; DE 3165766 D1 19841004; FR 2485796 A1 19811231; FR 2485796 B1 19830722; US 4413170 A 19831101

DOCDB simple family (application)

**EP 81400923 A 19810611**; DE 3165766 T 19810611; FR 8013967 A 19800624; US 27437681 A 19810617