

Title (en)
Thermal printhead

Title (de)
Thermodruckkopf

Title (fr)
Tête d'imprimante thermique

Publication
EP 1104700 B1 20051012 (EN)

Application
EP 99204069 A 19991201

Priority
EP 99204069 A 19991201

Abstract (en)
[origin: EP1104700A1] A thermal head comprising a heatsink (31), heating elements (39) made of a heating material (36), electrodes (48, 49), and optionally additional layers, wherein the heating elements are optically transparent by having, within wavelengths ranging from 350 to 1200 nm, a transparency higher than 70 %. The heating material is selected from a group consisting of In₂O₃ optionally doped; SnO₂ optionally doped; ZnO optionally doped; Cd₂SnO₄, or CdSnO₃; Bi₂O₃; MoO₃; TiO₂; WO₂; RhO₂; ReO₂; Na_xWO₃; Zn₂SnO₄, and V₂O₅. Alternatively, the heating material is a conductive polymer. Also disclosed is the use of a such a thermal head in e.g. thermography and in photothermography. <IMAGE>

IPC 1-7
B41J 2/335

IPC 8 full level
B41J 2/335 (2006.01)

CPC (source: EP)
B41J 2/33515 (2013.01); **B41J 2/3355** (2013.01); **B41J 2/3357** (2013.01)

Cited by
CN100441419C; CN107221835A

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1104700 A1 20010606; **EP 1104700 B1 20051012**; DE 69927693 D1 20051117; DE 69927693 T2 20060713; JP 2001162848 A 20010619

DOCDB simple family (application)
EP 99204069 A 19991201; DE 69927693 T 19991201; JP 2000360936 A 20001128