

Title (en)
HEAT-SENSITIVE RECORDING MATERIAL

Title (de)
WÄRMEEMPFLINDLICHES AUFZEICHNUNGSMATERIAL

Title (fr)
MATÉRIAU D'ENREGISTREMENT THERMOSENSIBLE

Publication
EP 2043876 A1 20090408 (DE)

Application
EP 07785875 A 20070629

Priority
• EP 2007005796 W 20070629
• DE 102006032521 A 20060712

Abstract (en)
[origin: WO2008006474A1] A description is given of a heat-sensitive recording material comprising: a sheetlike carrier; a thermoreactive layer on at least one side of the sheetlike carrier; and an interlayer, formed between the sheetlike carrier and the respective thermoreactive layer, which comprises hollow-sphere pigments embedded in a binder; and also, if appropriate, comprising top layers and/or further layers. This recording material is characterized in that the hollow-sphere pigments take the form of a composite pigment, with nanoscale pigment particles attached to the surface of an organic hollow-sphere pigment. This material can be produced inexpensively at high operating speed. The interlayers that are proposed in accordance with the invention exhibit optimum insulation capacity. They also have the effect of reducing or preventing the unwanted phenomenon of the text showing through, particularly when the thermoreactive layers are formed on both sides of the sheetlike carrier. The recording material exhibits a high optical density, runs very well in the thermal printer, in particular without depositing on or sticking to the thermal printing head in application, and the thermal print exhibits a homogeneous appearance.

IPC 8 full level
B41M 5/42 (2006.01)

CPC (source: EP US)
B41M 5/42 (2013.01 - EP US)

Citation (search report)
See references of WO 2008006474A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
WO 2008006474 A1 20080117; AT E488378 T1 20101215; BR PI0713163 A2 20120403; BR PI0713163 B1 20180102; CN 101489797 A 20090722; CN 101489797 B 20110907; DE 102006032521 B3 20080403; DE 502007005690 D1 20101230; EP 2043876 A1 20090408; EP 2043876 B1 20101117; ES 2355307 T3 20110324; US 2010048394 A1 20100225

DOCDB simple family (application)
EP 2007005796 W 20070629; AT 07785875 T 20070629; BR PI0713163 A 20070629; CN 200780026224 A 20070629; DE 102006032521 A 20060712; DE 502007005690 T 20070629; EP 07785875 A 20070629; ES 07785875 T 20070629; US 30780207 A 20070629