

Title (en)  
HEAT SENSITIVE RECORDING MATERIAL

Title (de)  
WÄRMEEMPFLINDLICHES AUFZEICHNUNGSMATERIAL

Title (fr)  
MATÉRIEL D'ENREGISTREMENT SENSIBLE À LA CHALEUR

Publication  
**EP 3109059 B1 20180627 (DE)**

Application  
**EP 15176526 A 20150713**

Priority  
EP 15173719 A 20150624

Abstract (en)  
[origin: WO2016207356A1] Disclosed is a heat-sensitive recording material comprising: a strip-shaped substrate (1) having a front face and a rear face opposite the front face; a heat sensitive recording layer (3) disposed on the front face of the strip-shaped substrate (1), wherein the heat-sensitive recording layer (3) contains at least one dye precursor and at least one (colour) developer that is reactive with the at least one dye precursor; a front-face surface (6) of the heat sensitive recording material, which is designed to be dehesive with respect to adhesive layers (7) which can be applied to the rear face of the strip-shaped substrate (1). The disclosed heat-sensitive recording material is characterised in that, in order to form the dehesive front-face surface (6) thereof, said heat-sensitive recording material has at least one application (5), arranged above the heat-sensitive recording layer (3) and having at least one separating means, and has at least one diffusion layer (4) formed between the application (5) having at least one separating means and the heat-sensitive recording layer (3). Also disclosed are a method for producing such a heat-sensitive recording material and possibilities for the use thereof.

IPC 8 full level  
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Citation (opposition)  
Opponent : Papierfabrik August Koehler SE  
• JP H058541 A 19930119 - MITSUBISHI PAPER MILLS LTD  
• JP H11348430 A 19991221 - OJI PAPER CO  
• EP 1637399 A2 20060322 - WAGON SAS [FR]  
• JP 2006095842 A 20060413 - DAINIPPON PRINTING CO LTD  
• EP 0780241 A1 19970625 - RICOH KK [JP]  
• EP 0579430 A1 19940119 - MOORE BUSINESS FORMS INC [US]  
• US 2005148467 A1 20050707 - MAKITALO JOUKO [FI], et al  
• WO 0035679 A1 20000622 - CIBA SC HOLDING AG [CH], et al  
• ARNOLD ARNI: "Diffusion", WIKIPEDIA, 1969, pages 224, XP055578636  
• "Analyse zweier marktüblicher Linerless-Thermopapiere", OMYA INTERNATIONAL AG, 2018, XP055578650

Cited by  
WO2021191085A1; DE102016219567A1; DE102016219569A1; EP3885152A1; JP2023511784A; US10882348B2

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JP 2018509316 A 20180405; JP 2019206188 A 20191205; KR 102058570 B1 20191223; KR 20170109032 A 20170927;  
PL 3109059 T3 20181031; PL 3221153 T3 20181231; RU 2670521 C1 20181023; US 10328735 B2 20190625; US 2017368859 A1 20171228;  
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