

Title (en)

DEVELOPER-FREE THERMOSENSITIVE RECORDING MATERIAL

Title (de)

ENTWICKLERFREIES WÄRMEEMPINDLICHES AUFZEICHNUNGSMATERIAL

Title (fr)

MATIÈRE D'ENREGISTREMENT THERMOSENSIBLE SANS GÉNÉRATEUR

Publication

EP 3957489 B1 20221102 (DE)

Application

EP 20191808 A 20200819

Priority

EP 20191808 A 20200819

Abstract (en)

[origin: CA3128553A1] The present invention relates to a heat-sensitive recording material comprising or consisting of a) a carrier substrate (preferably paper substrate) and b) a fusible layer disposed on one side of the carrier substrate or paper substrate, wherein the fusible layer comprises or consists of i) an amide wax having a melting point in the range from 60 C to 180 C, ii) an inorganic pigment and iii) a polymeric binder. The present invention additionally relates to a coating composition for producing a corresponding fusible layer, to a process for producing a heat-sensitive recording material and to the use of a heat-sensitive recording material.

IPC 8 full level

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CPC (source: EP US)

B41M 5/361 (2013.01 - EP US); **B41M 5/363** (2013.01 - EP US); **B41M 5/36** (2013.01 - EP); **B41M 2205/04** (2013.01 - EP US)

Citation (opposition)

Opponent : Koehler Innovation & Technology GmbH

- US 2014037901 A1 20140206 - CHUNG CHAO-JEN [US], et al
- EP 0164074 A2 19851211 - MITSUBISHI PAPER MILLS LTD [JP]
- JP 2002356072 A 20021210 - FUJI PHOTO FILM CO LTD
- JP 2005189541 A 20050714 - FUJI PHOTO FILM CO LTD
- EP 2993054 A1 20160309 - MITSUBISHI HITEC PAPER EUROPE [DE]
- EP 2993055 A1 20160309 - MITSUBISHI HITEC PAPER EUROPE [DE]
- US 4273602 A 19810616 - KOSAKA TAKAO, et al
- US 4587537 A 19860506 - MIYAUCHI MASAHIRO [JP], et al
- US 4643917 A 19870217 - KOSHIZUKA KUNIHIRO [JP], et al
- DE 102018101109 A1 20190718 - MITSUBISHI HITEC PAPER EUROPE GMBH [DE]
- US 2012274059 A1 20121101 - MORONUKI KATSUMI [JP], et al
- JP 2000118150 A 20000425 - FUJI PHOTO FILM CO LTD
- JP 2009023125 A 20090205 - MITSUBISHI PAPER MILLS LTD
- US 2019077178 A1 20190314 - BRASCH UWE [DE], et al

Opponent : Mitsubishi HiTec Paper Europe GmbH

- JÁNOS HAJAS: "Amidwachse", RÖMPP, THIEME, 1 December 2007 (2007-12-01), pages 1 - 2, XP093168592, Retrieved from the Internet <URL:<https://roempp.thieme.de/F8YLC>>
- HAJAS JÁNOS, HEYDT HEINRICH, SCHIEBER ANDREAS: "Wachse", RÖMPP, 1 December 2007 (2007-12-01), pages 1 - 5, XP093093562, Retrieved from the Internet <URL:<https://roempp.thieme.de/VTLA5>> [retrieved on 20231020]

Cited by

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

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DOCDB simple family (application)

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