

Title (en)

MULTI-PURPOSE PHENOL-FREE DIRECT THERMAL RECORDING MEDIA

Title (de)

PHENOLFREIE, DIREKT THERMISCHE MEHRZWECKAUFZEICHNUNGSMATERIALIEN

Title (fr)

SUPPORT D'ENREGISTREMENT THERMIQUE DIRECT SANS PHÉNOL POLYVALENT

Publication

**EP 4259449 A1 20231018 (EN)**

Application

**EP 20838767 A 20201210**

Priority

US 2020064342 W 20201210

Abstract (en)

[origin: WO2022125104A1] Non-phenolic direct thermal recording media have a thermally responsive layer containing a leuco dye and a plurality of non-phenolic developers including 1,3-diphenyl urea (DPU) and urea urethane (UU ). This chemistry enables multi-purpose recording materials capable of withstanding multiple different types of environmental conditions or agents — such as a water soak, contact with polyvinyl chloride meat wrapping film, boiling water, dry and humid heat, sunlight, and. contact with hand, sanitizer. The unique non-phenolic chemistry allows the product's thermally responsive layer to have an ultra-low coat, weight, less than 1.48 g/m2.

IPC 8 full level

**B41M 5/333** (2006.01)

CPC (source: EP KR)

**B41M 5/3333** (2013.01 - EP KR)

Designated contracting state (EPC)

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

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**WO 2022125104 A1 20220616**; EP 4259449 A1 20231018; EP 4259449 B1 20240619; JP 2024502544 A 20240122; KR 20230107361 A 20230714

DOCDB simple family (application)

**US 2020064342 W 20201210**; EP 20838767 A 20201210; JP 2023534746 A 20201210; KR 20237021160 A 20201210