

Title (en)

NON-CONTACT THERMAL PRINTING OF COLOR THERMOCHROMIC MATERIALS

Title (de)

KONTAKTLOSES THERMISCHES DRUCKEN VON FARBTHERMOCHROMEN MATERIALIEN

Title (fr)

IMPRESSION THERMIQUE SANS CONTACT DE MATÉRIAUX THERMOCHROMIQUES DE COULEUR

Publication

EP 3831610 B1 20230719 (EN)

Application

EP 20209098 A 20201120

Priority

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Abstract (en)

[origin: EP3831610A1] A system includes an unpatterned heater configured to pre-heat a thermochromic coating disposed on a substrate to a first temperature. The thermochromic coating has a threshold temperature at which the thermochromic material undergoes a color change. The system also includes a patterned heater comprising multiple heating elements configured to heat selected pixels of the thermochromic coating to a temperature at or above the threshold temperature according to a predetermined pattern. An air gap is maintained between the multiple heating elements and the thermochromic material while the patterned heater is heating the thermochromic material. The air in the air gap heated to a second temperature.

IPC 8 full level

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CPC (source: EP)

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