

Title (en)

Thermal imaging process providing color versatility

Title (de)

Thermisches Übertragungsverfahren mit hoher Farbfähigkeit

Title (fr)

Procédé d'imagerie thermique avec versatilité de couleurs

Publication

EP 1092554 A2 20010418 (EN)

Application

EP 00309066 A 20001016

Priority

US 15988099 P 19991015

Abstract (en)

A processes for laser thermal imaging and imaged laserable assemblages A method for forming an image comprising the steps of: (1) forming a first coating solution of a first colorant and a second coating solution of a second colorant; (2) providing a first base element having a first coatable surface; (3) forming a first imageable element by applying an amount of the first coating solution to the coatable surface to form a first thermally imageable layer thereon, the first thermally imageable layer having a first thermal sensitivity; (4) forming a first laserable assemblage including the first imageable element and a receiver element having an image receiving layer which is in contact with the first imageable element; (5) first imagewise exposing to laser radiation the first laserable assemblage, whereby the exposed areas of the first thermally imageable layer are transferred to the receiver element to form a first imaged receiver element; (6) providing a second base element having a second coatable surface; (7) forming a second imageable element by applying an amount of the second coating solution to the coatable surface to form a second thermally imageable layer thereon, the second thermally imageable layer having a second thermal sensitivity; (8) forming a second laserable assemblage including the second imageable element and the first imaged receiver element, the first image of which is adjacent to the second imageable element; (9) imagewise exposing to laser radiation, at substantially the same laser fluence as the first imagewise exposing, the second laserable assemblage, whereby the exposed areas of the second thermally imageable layer are transferred to the first imaged receiver element to form a second imaged receiver; and (10) separating at least the second imageable element from the second imaged receiver to produce an imaged receiver having a revealed image.

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