

Title (en)

INFRARED ABSORBING CYANINE DYES FOR DYE-DONOR ELEMENT USED IN LASER-INDUCED THERMAL DYE TRANSFER

Publication

EP 0321923 B1 19920715 (EN)

Application

EP 88121298 A 19881220

Priority

- US 13607487 A 19871221
- US 22116388 A 19880719

Abstract (en)

[origin: EP0321923A2] A dye-donor element for laser-induced thermal dye transfer comprising a support having thereon a dye layer and an infrared-absorbing material, characterized in that the infrared-absorbing material is a cyanine dye having the following formula: <CHEM> wherein: R<1> and R<2> each independently represents a substituted or unsubstituted alkyl group; R<3>, R<4>, and R<5> each independently represents hydrogen or a substituted or unsubstituted alkyl group; or R<3> and R<4> may be joined together, directly or through one or more methyne or methylene groups to complete a substituted or unsubstituted cyclic ring of 5 to 9 members; Z<1> and Z<2> each independently represents hydrogen or the atoms necessary to complete a unsubstituted or substituted benzene or naphthalene ring; Y<1> and Y<2> each independently represents a dialkyl substituted carbon atom, a vinylene group, an oxygen atom, a sulphur atom, a selenium atom, or a nitrogen atom with an R<1> or a substituted or unsubstituted aryl group attached; J represents hydrogen; a substituted or unsubstituted alkyl group; a substituted or unsubstituted aryl group; a halogen atom; or a nitrogen atom substituted with an alkyl or aryl group, or the atoms necessary to complete a 5- or 6-membered heterocyclic ring; n is 0 or 1; and X is a monovalent anion.

IPC 1-7

B41M 5/26

IPC 8 full level

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Cited by

US7396632B2; US7223515B1; EP0603490A1; US6623908B2; US5955224A; EP0454083A3; EP0771672A3; EP0636490A1; EP0600209A1; CN116082854A; US5710097A; US5976698A; US5858583A; EP0403933A1; US6140009A; US6114088A; US5849464A; US5864356A; EP0566103A1; US5501937A; US6861201B2; US7927454B2; US6251571B1; US6521324B1; US6770337B2; US7670450B2; US6228543B1; EP0685333A2; US6617093B2; US6783915B2; WO2015016678A1; US6214520B1; US6194119B1; US6270944B1; US6291116B1; US6291126B2; US6410201B2; US6582876B2; US6586153B2; EP1342585A1; US6221553B1

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