

Title (en)

N-ALKYL- OR N-ARYL-AMINOPYRAZOLONE MEROCYANINE DYE-DONOR ELEMENT USED IN THERMAL DYE TRANSFER

Publication

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Application

EP 87112145 A 19870821

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- US 89927386 A 19860822
- US 91545186 A 19861006

Abstract (en)

[origin: EP0257577A2] A dye-donor element for thermal dye transfer comprises a support having thereon a 3-(N-alkyl- or N-aryl-amino)-2-pyrazolin-5-one merocyanine dye dispersed in a polymeric binder, the merocyanine dye being capable of transfer by diffusion to a dye-receiving element upon the application of heat and being incapable of substantial photolysis, the merocyanine dye being substituted or unsubstituted on the bridging methine carbon atoms. In a preferred embodiment, the merocyanine dye has the formula: <CHEM> wherein: R represents a substituted or unsubstituted alkyl group of from 1 to 6 carbon atoms or a substituted or unsubstituted aryl group of from 6 to 10 carbon atoms; R<1> and R<2> each independently represents hydrogen, with the proviso that only one of R<1> and R<2> may be hydrogen at the same time; a substituted or unsubstituted alkyl group of from 1 to 6 carbon atoms or a substituted or unsubstituted aryl group of from 6 to 10 carbon atoms; or R<1> and R<2> may be combined together with the nitrogen to which they are attached to form a heterocyclic ring system; R<3> is R; n represents 0 or 1; and Z represents the atoms necessary to complete a 5- or 6-membered substituted or unsubstituted heterocyclic ring.

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Cited by

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