

Title (en)

Electrophotographic elements and method for their preparation.

Title (de)

Elektrophotographische Elemente und Verfahren zu ihrer Herstellung.

Title (fr)

Éléments électrophotographiques et procédé pour leur fabrication.

Publication

EP 0002238 A1 19790613 (EN)

Application

EP 78101449 A 19781124

Priority

- US 85514177 A 19771128
- US 87497178 A 19780203

Abstract (en)

Electrophotographic elements which comprise a photoconductive layer on conducting support, wherein the photoconductive layer contains a electrically insulating binder, a dye and, optionally, and organic photoconductor. The dye is in a "dye-dye interaction" condition which results from contacting the layer with vapors of a solvent for the dye after the layer has been formed. Enhanced photoconductive sensitivity and resolution result from the transformation of the dye into the "dye-dye interaction" condition. Dyes found useful in the formation have the structure <CHEM> wherein Z and Z min independently represent O, Se, or S and X<-> represents an anion. The difference between the absorption spectra of the pyrylium salts before and after vapor treatment proves the existance of a "dye-dye-interaction" condition (curve 2) different from the "dye-polymer-interaction" condition (curve 1) of the prior art.

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G03G 5/09; G03G 5/06

IPC 8 full level

G03G 5/06 (2006.01)

CPC (source: EP)

G03G 5/0661 (2013.01); **G03G 5/067** (2013.01)

Citation (search report)

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