

Title (en)
Electrophotographic photoconductor

Title (de)
Elektrophotographischer Photokonduktor

Title (fr)
Photoconducteur électrophotographique

Publication
EP 0415864 B1 19970604 (EN)

Application
EP 90480105 A 19900718

Priority
US 40126489 A 19890831

Abstract (en)
[origin: EP0415864A1] A layered electrophotographic photoconductor is disclosed having a ground plane layer, a charge generating layer carried by the ground plane layer, and a charge transport layer carried by the charge generating layer. The polymeric binder material of the charge transport layer and the charge generation layer comprises an ordered copolyestercarbonate whose ester content is in the range of about 35 wt. % to about 70 wt. %, of which about 60 wt. % to about 70 wt. % is preferred, and of which about 70 wt. % is the most preferred. The charge generating molecule is a squarylium, and more specifically 2,4-bis-(4-dimethylamino-2-hydroxyphenyl) cyclobutene diylium-1,3-diolate (OHSQ). The charge transporting molecule is a hydrazone, and more specifically 4-diethylaminobenzaldehyde-1,1-diphenylhydrazone (DEH).

IPC 1-7
G03G 5/05

IPC 8 full level
C08G 63/64 (2006.01); **C08L 67/02** (2006.01); **G03G 5/05** (2006.01); **G03G 5/06** (2006.01)

CPC (source: EP)
G03G 5/0564 (2013.01)

Cited by
EP1298497A3; US6042980A; GB2269677A; GB2269677B

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0415864 A1 19910306; EP 0415864 B1 19970604; DE 69030852 D1 19970710; DE 69030852 T2 19980108; JP H03119360 A 19910521; JP H052982 B2 19930113

DOCDB simple family (application)
EP 90480105 A 19900718; DE 69030852 T 19900718; JP 22012990 A 19900823