

Title (en)  
Electrophotographic photoconductor.

Title (de)  
Elektrophotographischer Photokonduktor.

Title (fr)  
Photoconducteur électrophotographique.

Publication  
**EP 0415864 A1 19910306 (EN)**

Application  
**EP 90480105 A 19900718**

Priority  
US 40126489 A 19890831

Abstract (en)  
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)

Citation (search report)  

- [YD] US 4150987 A 19790424 - ANDERSON HOWARD W [US], et al
- [A] US 4391888 A 19830705 - CHANG MIKE S H, et al
- [A] EP 0318943 A2 19890607 - EASTMAN KODAK CO [US]
- [Y] PATENT ABSTRACTS OF JAPAN vol. 12, no. 151 (P-699)(2998) 11 May 1988, & JP-A-62 267747 (FUJI XEROX CO.,LTD.) 20 November 1987,
- [A] PATENT ABSTRACTS OF JAPAN vol. 9, no. 182 (P-376)(1905) 27 July 1985, & JP-A-60 52855 (HITACHI KASEI KOGYO K.K.) 26 March 1985,

Cited by  
EP1298497A3; GB2269677A; GB2269677B; US6042980A

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