

Title (en)
Image bearing member, and process cartridge and image forming apparatus using the same

Title (de)
Bildträgerelement, Prozesskartusche und Bilderzeugungsvorrichtung

Title (fr)
Élément supportant l'image, appareil de formation d'images et sa cartouche de traitement

Publication
EP 1862858 A1 20071205 (EN)

Application
EP 07109124 A 20070529

Priority
JP 2006149088 A 20060530

Abstract (en)
An image bearing member including a substrate, a photosensitive layer overlying the substrate, a surface layer overlying the photosensitive layer. The surface layer is formed by applying to the photosensitive layer a liquid composition containing a monomer having at least three radical polymerizable groups without a charge transport structure, a monomer having a radical polymerizable functional group with a charge transport structure and a photo-radical polymerization initiator containing a titanocene derivative and curing the liquid composition with irradiation of light, The monomer having a radical polymerizable functional group with a charge transport structure has an optical absorption spectrum such that an absorption end wavelength thereof is at least. 40 nm shorter than an absorption end wavelength of the titanocene derivative,

IPC 8 full level
G03G 5/05 (2006.01); **G03G 5/147** (2006.01)

CPC (source: EP US)
G03G 5/0546 (2013.01 - EP); **G03G 5/0589** (2013.01 - EP); **G03G 5/0592** (2013.01 - EP); **G03G 5/0596** (2013.01 - EP);
G03G 5/06147 (2020.05 - EP US); **G03G 5/0668** (2013.01 - EP); **G03G 5/072** (2020.05 - EP US); **G03G 5/0732** (2020.05 - EP US);
G03G 5/074 (2020.05 - EP US); **G03G 5/0745** (2020.05 - EP US); **G03G 5/14734** (2013.01 - EP); **G03G 5/14786** (2013.01 - EP);
G03G 5/14791 (2013.01 - EP); **G03G 5/14795** (2013.01 - EP)

Citation (search report)
• [PX] US 2007031746 A1 20070208 - TOSHINE TETSUYA [JP], et al
• [A] EP 1530098 A2 20050511 - RICOH KK [JP]
• [A] EP 0186626 A2 19860702 - CIBA GEIGY AG [CH]

Cited by
CN113937223A; EP2107423A1; US7811732B2

Designated contracting state (EPC)
DE FR GB

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1862858 A1 20071205

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EP 07109124 A 20070529