

Title (en)
An electrophotographic photoconductor and a method for forming the same

Title (de)
Elektrophotographischer Photoleiter und dessen Herstellungsverfahren

Title (fr)
Photoconducteur électrophotographique et son procédé de préparation

Publication
EP 0696763 A1 19960214 (EN)

Application
EP 95100136 A 19950105

Priority
JP 16161194 A 19940713

Abstract (en)
An electrophotographic photoconductor comprising a conductive support, an undercoating layer provided on the conductive support and a photosensitive layer provided on the undercoating layer, in which the undercoating layer comprises a needle-like titanium oxide particles and a binder resin. The needle-like titanium oxide particles in the undercoating layer show a volume resistance in the range from $10^{5\sim 10^{10}}$ $\Omega \cdot \text{cm}$ to $10^{1\sim 10^0}$ $\Omega \cdot \text{cm}$ when a loading pressure of 100 Kg/cm² is applied and have a short axis S having a length of 0.5 μm or less and a long axis L having a length of 10 μm or less and the aspect ratio of L/S ranging from 2 to 10. Further, the needle-like titanium oxide particles are contained in the undercoating layer in the range from 50 wt % to 95 wt% and the surface thereof remains untreated. <MATH>

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G03G 5/14

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CPC (source: EP)
G03G 5/144 (2013.01)

Citation (search report)
• [A] EP 0576957 A2 19940105 - SHARP KK [JP]
• [A] EP 0368252 A2 19900516 - AJINOMOTO KK [JP], et al

Cited by
EP1081557A1; EP1640808A3; EP0980027A1; US6136484A; US7312007B2; US6696214B2

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