

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 B1 19990728 (EN)

Application

EP 95100136 A 19950105

Priority

JP 16161194 A 19940713

Abstract (en)

[origin: EP0696763A1] 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} $\Omega \cdot \text{cm}$ to 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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CPC (source: EP)

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Cited by

EP1081557A1; EP1640808A3; EP0980027A1; US6136484A; US7312007B2; US6696214B2

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