

Title (en)

Imaging element comprising an improved electrically conductive layer containing acicular metal-containing particles

Title (de)

Bildaufzeichnungselement, das eine verbesserte elektrisch leitfähige Schicht mit nadelförmigen Teilchen enthält

Title (fr)

Élément formateur d'image ayant une couche électroconductrice améliorée comprenant des particules aciculaires contenant un métal

Publication

EP 0947878 B1 20020612 (EN)

Application

EP 99200876 A 19990322

Priority

US 5323398 A 19980401

Abstract (en)

[origin: EP0947878A2] The present invention is an imaging element which includes a support, an image-forming layer superposed on the support and an electrically-conductive layer superposed on the support. The electrically-conductive layer contains a film-forming binder and acicular, crystalline single-phase, electrically-conductive metal-containing particles. The acicular, crystalline single-phase, conductive metal-containing particles have a diameter less than or equal to 0.02 μm and an aspect greater than or equal to 3:1. The electrically-conductive layer is formed by dispersing the acicular particles using polymeric milling media having a size less than 350 μm to form a colloidal dispersion, combining the colloidal dispersion with the film forming binder to form a mixture, coating the mixture onto the support and drying the mixture to form the electrically-conductive layer.

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CPC (source: EP)

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Cited by

EP1975726A1; EP0962486A3; EP1011019A1; US7662525B2; US6168911B1; WO2023178026A3

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