

Title (en)

Light-sensitive silver halide photographic film material and radiographic intensifying screen-film combination

Title (de)

Lichtempfindliches photographisches Silberhalogenidfilmmaterial und eine Kombination eines radiographischen Verstärkungsschirms mit diesem Film

Title (fr)

Film photographique à l'halogénure d'argent sensible à la lumière et une structure radiographique combinant le film et un écran intensificateur

Publication

EP 1103848 B1 20070117 (EN)

Application

EP 00203917 A 20001107

Priority

- EP 00203917 A 20001107
- EP 99204009 A 19991126

Abstract (en)

[origin: EP1103848A1] A light-sensitive silver halide photographic film material has been provided, said film material comprising a transparent support and on both sides thereof at least one light-sensitive emulsion layer having spectrally and chemically sensitized tabular silver halide grains rich in silver bromide, further having silver iodide in an amount of less than 3 mole % based on silver, with two flat parallel $\{111\}$ crystal faces, said grains accounting for a total projective surface of said parallel crystal faces in said emulsion of at least 50 %, further having an average aspect ratio of at least 2:1, a grain thickness of from 0.05 up to 0.15 μm , a site-directing azacyanine compound satisfying the general formulae disclosed herein in an amount of not less than 1×10^{-4} mole per mole of silver halide coated and one or more J-aggregating spectrally sensitizing dye(s), wherein a molar ratio amount between said site directing compound and said J-aggregating spectrally sensitizing dye(s) is at least 1:6 for a grain coverage of said $\{111\}$ tabular grains exceeding 50 %. A radiographic screen/film combination has also been described comprising said light-sensitive silver halide photographic film material and two supporting or self-supporting X-ray intensifying screens)comprising luminescent phosphors, wherein by contacting the film material with a sandwich of a pair of said intensifying screens and exposing said combination to X-rays, emission of radiation by said luminescent phosphors in the wavelength range for which said material has been made spectrally sensitive provides a black-and-white diagnostic image after processing of said exposed radiographic film material.

IPC 8 full level

G03C 1/07 (2006.01); **G03C 1/12** (2006.01); **G03C 5/16** (2006.01); **G03C 1/005** (2006.01); **G03C 1/18** (2006.01); **G03C 5/17** (2006.01)

CPC (source: EP)

G03C 1/07 (2013.01); **G03C 1/122** (2013.01); **G03C 5/16** (2013.01); **G03C 1/0051** (2013.01); **G03C 1/18** (2013.01); **G03C 5/17** (2013.01); **G03C 2001/0055** (2013.01); **G03C 2001/03511** (2013.01); **G03C 2005/168** (2013.01); **G03C 2007/3025** (2013.01); **G03C 2200/03** (2013.01)

Citation (examination)

EP 1045283 A1 20001018 - AGFA GEVAERT NV [BE]

Cited by

EP1422548A1; EP1462853A1; CN104232075A; US6794105B2; US7129031B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1103848 A1 20010530; EP 1103848 B1 20070117

DOCDB simple family (application)

EP 00203917 A 20001107