

Title (en)

Infrared sensitive silver halide phototographic elements

Title (de)

Infrarotempfindliche photographische Silberhalogenidelemente

Title (fr)

Éléments photographiques à l'halogénure d'argent sensible à l'infrarouge

Publication

EP 0644458 B1 19980812 (EN)

Application

EP 93115143 A 19930921

Priority

EP 93115143 A 19930921

Abstract (en)

[origin: EP0644458A1] An infrared sensitive silver halide photographic element is disclosed comprising a support and at least one silver halide emulsion layer spectrally sensitized to the infrared portion of the electromagnetic spectrum. In particular, an infrared sensitive color photographic element, capable of providing full color images without exposure to corresponding visible radiation, is disclosed, said element comprising at least three silver halide emulsion layers on a substrate, each associated with different photographic color image forming materials, such as color couplers capable of forming dyes of different colors upon reaction with an oxidized color photographic developer, diffusing dyes, bleachable dyes, or oxidized leuco dyes. The three emulsion layers are sensitized to three different portions of the electromagnetic spectrum with at least two layers sensitized to different regions of the infrared region of the electromagnetic spectrum. The infrared sensitive element is characterized in that at least one infrared sensitized emulsion layer is associated with a 3-mercapto-1,2,4-triazole antifogging agent represented by the formula : <CHEM> wherein R1 and R2 each independently represents hydrogen or an alkyl group, the sum of carbon atoms of R1 and R2 is 1 or 2, and at least one of R1 and R2 is a perfluoroalkyl group. The infrared sensitive photographic element has high sensitivity to infrared radiation and undergoes less change in sensitivity during storage.

IPC 1-7

G03C 5/16; **G03C 1/28**; **G03C 1/34**

IPC 8 full level

G03C 1/28 (2006.01); **G03C 1/34** (2006.01); **G03C 5/16** (2006.01)

CPC (source: EP)

G03C 1/28 (2013.01); **G03C 1/346** (2013.01); **G03C 5/16** (2013.01)

Designated contracting state (EPC)

IT

DOCDB simple family (publication)

EP 0644458 A1 19950322; **EP 0644458 B1 19980812**

DOCDB simple family (application)

EP 93115143 A 19930921