

Title (en)

Small 3D emulsions with enhanced photographic response

Title (de)

Kleine 3D-Emulsionen mit verbessertem photographischem Verhalten

Title (fr)

3D Emulsions de taille réduite ayant une réponse photographique améliorée

Publication

EP 1136875 A3 20030813 (EN)

Application

EP 01200935 A 20010312

Priority

US 53437800 A 20000324

Abstract (en)

[origin: EP1136875A2] A silver halide photographic element comprises at least one silver halide emulsion layer comprising 3D emulsion grains having an equivalent spherical diameter of less than or equal to 0.35 μm and said layer further comprises a fragmentable electron donor compound of the formula $\text{X-Y}'$ or a compound which contains a moiety of the formula $\text{-X-Y}'$; wherein X is an electron donor moiety, Y' is a leaving proton H or a leaving group Y, with the proviso that if Y' is a proton, a base, beta <->, is covalently linked directly or indirectly to X, and wherein: 1) X-Y' has an oxidation potential between 0 and about 1.4 V; and 2) the oxidized form of X-Y' undergoes a bond cleavage reaction to give the radical X^* and the leaving fragment Y'; and 3) the radical X^* has an oxidation potential $\leq -0.7\text{V}$ (that is, equal to or more negative than about -0.7V).

IPC 1-7

G03C 1/035; **G03C 1/10**; **G03C 1/12**

IPC 8 full level

G03C 1/035 (2006.01); **G03C 1/08** (2006.01); **G03C 1/10** (2006.01); **G03C 1/12** (2006.01)

CPC (source: EP)

G03C 1/035 (2013.01); **G03C 1/10** (2013.01); **G03C 1/12** (2013.01); **G03C 2001/03511** (2013.01); **G03C 2001/03541** (2013.01)

Citation (search report)

- [DY] EP 0893731 A1 19990127 - EASTMAN KODAK CO [US]
- [DY] US 5994051 A 19991130 - GOULD IAN R [US], et al

Cited by

EP1300726A1; US6787298B2; US7211373B2

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