

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  $\mu\text{m}$  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  $\text{X}^*$  and the leaving fragment Y'; and 3) the radical  $\text{X}^*$  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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