

Title (en)

Oligomer modified tabular grain emulsions.

Title (de)

Mit Oligomeren modifizierte Emulsionen tafelförmiger Körner.

Title (fr)

Emulsions à grains tabulaires modifiés par oligomères.

Publication

EP 0617317 A1 19940928 (EN)

Application

EP 94104411 A 19940321

Priority

US 3373993 A 19930322

Abstract (en)

A radiation sensitive emulsion is disclosed comprised of a dispersing medium and silver halide grains. At least 50 percent of total grain projected area is accounted for by tabular grains bounded by {100} major faces having adjacent edge ratios of less than 10, each having an aspect ratio of at least 2, containing on average at least one pair of metal ions chosen from group VIII, periods 5 and 6, at adjacent cation sites in their crystal lattice, and internally at their nucleation site containing iodide and at least 50 mole percent chloride. The emulsions are prepared by the steps of (a) introducing silver and halide salts into a dispersing medium so that nucleation of the tabular grains occurs in the presence of iodide with chloride accounting for at least 50 mole percent of the halide present in the dispersing medium and the pCl of the dispersing medium being maintained in the range of from 0.5 to 3.5, (b) following nucleation completing grain growth under conditions that maintain the {100} major faces of the tabular grains, and (c) during at least one of steps (a) and (b) introducing into the dispersing medium oligomers of group VIII, period 5 or 6, metal, wherein each oligomer contains at least two metal ions and on average at least two metal ions are incorporated in each grain in adjacent cation sites. <IMAGE>

IPC 1-7

G03C 1/005

IPC 8 full level

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Citation (search report)

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