

Title (en)

Light-sensitive emulsion having (100) tabular grains rich in silver chloride and method for preparing said grains

Title (de)

Lichtempfindliche Emulsion, die chloridreiche (100)-Tafelkörner enthält und Verfahren zur Herstellung dieser Körner

Title (fr)

Emulsion sensible à la lumière ayant des grains tabulaires (100) riche en chlorure et procédé pour préparer les mêmes

Publication

EP 0949536 A1 19991013 (EN)

Application

EP 98201093 A 19980407

Priority

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Abstract (en)

A light-sensitive silver halide photographic emulsion has been described, said emulsion comprising a colloiddally stabilizing binder and $\approx 100\mu$ tabular silver halide grains containing at least 50 mole % of silver chloride, wherein at least 70 % by number of all grains is provided by said tabular grains, exhibiting an average aspect ratio of at least 5 and an average equivalent circular grain diameter of at least $0.3\mu\text{m}$, wherein said tabular grains have an average thickness of less than $0.25\mu\text{m}$ for at least 75 % by number of all tabular grains. In order to prepare said emulsion a method has been disclosed comprising performing at least three distinct precipitation steps in an aqueous medium in a reaction vessel, followed by desalting by means of washing after flocculation or by means of ultrafiltration, wherein said three distinct precipitation steps consist of a nucleation step followed by a first and a second growth step, said method being further characterized by introducing in the said reaction vessel, after the first growth step, of a block-copolymer according to the formula (I) as described in the detailed description and in the claims.

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Citation (search report)

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