

Title (en)

Process for the production of silver halide emulsions

Title (de)

Verfahren zur Herstellung von Silberhalogenidemulsionen

Title (fr)

Méthode de préparation d'émulsions à l'halogénure d'argent

Publication

EP 0595031 B1 19971217 (DE)

Application

EP 93115452 A 19930924

Priority

DE 4233714 A 19921007

Abstract (en)

[origin: EP0595031A1] The preparation of a silver halide emulsion containing up to 20 mol % of AgI by precipitation of a silver halide emulsion A containing up to 100 mol % of AgI and addition of a silver halide emulsion B containing up to 40 mol % of AgI and having a maximum mean particle size of 0.25 μ m, where emulsion B always has higher solubility in aqueous gelatin solution than emulsion A either due to its particle size or due to its iodide content, in the presence of at least two compounds from the series consisting of imidazole, histidine (α -amino- β -imidazolyl-(5)-propionic acid) and other monocyclic, 5- or 6-membered, heterocyclic compounds which contain at least one ring nitrogen atom, but no SH groups, and form, in weakly acidic to neutral aqueous solution, low-solubility silver salts which redissolve on addition of ammonia at a pH of > 9, where one of the at least two compounds is imidazole or histidine and at least one other compound is not imidazole or histidine, gives emulsions having an improved sensitivity/particle size ratio.

IPC 1-7

G03C 1/015; **G03C 1/035**; **G03C 1/07**

IPC 8 full level

G03C 1/015 (2006.01); **G03C 1/035** (2006.01); **G03C 1/06** (2006.01); **G03C 1/07** (2006.01); **G03C 1/34** (2006.01)

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