

Title (en)

Method of making tabular silver halide grains.

Title (de)

Verfahren zur Herstellung von tafelförmigen Silberhalogenid-Körnern.

Title (fr)

Procédé pour la fabrication de grains d'halogénure d'argent tabulaires.

Publication

EP 0569075 A1 19931110 (EN)

Application

EP 93201136 A 19930420

Priority

- EP 93201136 A 19930420
- EP 92201259 A 19920505

Abstract (en)

A photographic material has been coated on at least one side of a support with in at least one photosensitive layer hexagonal and/or circular tabular silver halide emulsion crystals occupying at least 70 % of the total projected area of all grains, having a thickness of 0.15 to 0.30 μm , a coefficient of variation of the tabular grains between 0.15 and 0.45 and an average aspect ratio of at least 2:1, prepared in the absence of ammonia by growing the nuclei, prepared at a pBr value between 1.0 and 2.0 and consuming less than 10 % by weight of silver nitrate, during a first growth step at a pBr value between 1.0 and 2.5 consuming at least 10 % by weight of silver nitrate and during a second growth step at a pBr value higher than 2.7 during the addition of at least 40% of the total amount of silver nitrate used. The loss in sensitivity and gradation after development of said material in a diluted cheap developer after exposing said photographic material containing said emulsion grains is neglectable in comparison with the characteristics obtained after development in stronger high quality developers.

IPC 1-7

G03C 1/005

IPC 8 full level

G03C 1/005 (2006.01); **G03C 5/16** (2006.01); **G03C 5/30** (2006.01)

CPC (source: EP)

G03C 1/0051 (2013.01); **G03C 5/16** (2013.01); **G03C 5/30** (2013.01)

Citation (search report)

- [X] WO 9118320 A1 19911128 - EASTMAN KODAK CO [US]
- [A] US 4755456 A 19880705 - SUGIMOTO TADAO [JP]
- [A] RESEARCH DISCLOSURE vol. 299, March 1989, HAVANT GB pages 185 - 197 ANONYMOUS : 'Nucleation of Tabular Grain Emulsions at High pBr'

Cited by

US5616455A; EP0735413A1; US5702879A; EP0790526A1; US6878512B2

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