Title (en)

Oil-water emulsions for photographic applications comprising gelatin having high stability

Title (de)

Für photographische Anwendungen geeignete, Gelatine enthaltende Öl-Wasser-Emulsionen von hoher Stabilität

Title (fr)

Emulsions huile-eau appropriées pour des applications photographiques comprenant de la gélatine et ayant une haute stabilité

Publication

EP 0971262 A1 20000112 (EN)

Application

EP 99202265 A 19990709

Priority

NL 1009603 A 19980709

Abstract (en)

An oil-water emulsion for photographic application said emulsion comprising oil, water, gelatin and a surfactant, said gelatin consisting of a) a fraction of gelatin molecules with a molecular weight smaller than 70 kDa, said fraction forming 30-90% by weight on the basis of the total weight of gelatin in the emulsion, b) a fraction of gelatin molecules with a molecular weight higher than 130 kDa, said fraction forming 5-38% by weight on the basis of the total weight of gelatin in the emulsion, c) the fractions of gelatin molecules with a molecular weight higher than 130 kDa and with a molecular weight smaller than 70 kDa are further related by having as lower limit % fraction > 130 kDa = 0.455 x (100-Ä% fraction < 70 kDaÜ) and as upper limit % fraction > 130 kDa = 0.606 x (100-Ä% fraction < 70 kDaÜ) d) whereby in total Ä% fraction < 70 kDaÜ + Ä% fraction > 130 kDaÜ ≤ 100%.

IPC 1-7

G03C 1/047; G03C 1/005; G03C 7/388; C09H 5/00

IPC 8 full level

G03C 1/047 (2006.01); G03C 7/388 (2006.01)

CPC (source: EP)

G03C 1/047 (2013.01); G03C 1/005 (2013.01); G03C 7/388 (2013.01); G03C 2001/0473 (2013.01)

Citation (search report)

- [A] EP 0593180 A1 19940420 - KONISHIROKU PHOTO IND [JP]
- [A] EP 0761297 A1 19970312 - KODAK LTD [GB], et al
- [A] B.H.TAVERNIER: "Molecular Mass Distribution of Gelatin and Physical Properties", 1989, H.AMMANN-BRASS, J.POURADIER (ED.S); PROCEEDINGS OF THE 5TH IAG CONFERENCE, FRIBOURG 1989, XP002107717, 171950

Cited by

US6706467B2; EP0999470A1; US6573037B1; US6589326B1

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