CPC - 2020.05

COOPERATIVE PATENT CLASSIFICATION

G PHYSICS

INSTRUMENTS

G03 PHOTOGRAPHY; CINEMATOGRAPHY; ANALOGOUS TECHNIQUES USING WAVES OTHER THAN OPTICAL WAVES; ELECTROGRAPHY; HOLOGRAPHY

G03C PHOTOSENSITIVE MATERIALS FOR PHOTOGRAPHIC PURPOSES (for photomechanical purposes G03F); PHOTOGRAPHIC PROCESSES, e.g. CINE, X-RAY, COLOUR, STEREO-PHOTOGRAPHIC PROCESSES; AUXILIARY PROCESSES IN PHOTOGRAPHY (photographic processes characterised by the use or manipulation of apparatus classifiable per se in subclass G03B, see G03B; photomechanical production of textured or patterned surfaces G03F; electrophotography, magnetography G03G)

NOTE
In this subclass, the following expressions are used with the meanings indicated:
- “photosensitive compositions” covers photosensitive substances, e.g. silver halides, and, if applicable, binders or additives;
- “photosensitive materials” covers the photosensitive compositions, e.g. emulsions, the bases carrying them, and, if applicable, auxiliary layers.

WARNINGS
1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
   Subject matter covered by this group is classified in the following CPC group:
   G03C 9/08 covered by G03C 9/00, G03C 2009/08
2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00 Photosensitive materials (photosensitive materials for multicolour processes G03C 7/00; for diffusion transfer processes G03C 8/00; photosensitive glass G03C 4/04)
   2001/0157 . . . [Ultrafiltration]
   2001/0158 . . . [Washing of emulsions]
   1/025 . . . Physical treatment of emulsions, e.g. by ultrasonics, refrigeration, pressure (coating, drying G03C 1/74)
   2001/0252 . . . [Electric power or field]
   2001/0255 . . . [Refrigeration]
   2001/0257 . . . [Ultrasonic]
   1/035 . . . characterised by the crystal form or composition, e.g. mixed grain
   2001/03505 . . . [Shape of the grains]
   2001/03511 . . . [Bromide content]
   2001/03517 . . . [Chloride content]
   2001/03523 . . . [Converted grains]
   2001/03529 . . . [Coefficient of variation]
   2001/03535 . . . [Core-shell grains]
   2001/03541 . . . [Cubic grains]
   2001/03547 . . . [Cubooctahedral grains]
   2001/03552 . . . [Epitaxial junction grains; Protrusions or protruded grains]
   2001/03558 . . . [Iodide content]
   2001/03564 . . . [Mixed grains or mixture of emulsions]
   2001/0357 . . . [Monodisperse emulsion]
   2001/03576 . . . [Containing no iodide]
   2001/03582 . . . [Octahedral grains]
   2001/03588 . . . [Polydisperse emulsion]

   1/002 . . . (containing microcapsules (with photopolymerisable compositions G03F 7/002))
   2001/025 . . . Physical treatment of emulsions, e.g. by ultrasonics, refrigeration, pressure (coating, drying G03C 1/74)

   1/005 . . . Silver halide emulsions; Preparation thereof;
   Physical treatment thereof; Incorporation of additives therein (catalytic amounts of silver halide in dry silver systems (or thermographic systems using noble metal compounds) G03C 1/494)

   2001/0157 . . . {Ultrafiltration}
   2001/0158 . . . {Washing of emulsions}
   1/025 . . . Physical treatment of emulsions, e.g. by ultrasonics, refrigeration, pressure (coating, drying G03C 1/74)
   2001/0252 . . . {Electric power or field}
   2001/0255 . . . {Refrigeration}
   2001/0257 . . . {Ultrasonic}
   1/035 . . . characterised by the crystal form or composition, e.g. mixed grain

   2001/03505 . . . {Shape of the grains}
   2001/03511 . . . {Bromide content}
   2001/03517 . . . {Chloride content}
   2001/03523 . . . {Converted grains}
   2001/03529 . . . {Coefficient of variation}
   2001/03535 . . . {Core-shell grains}
   2001/03541 . . . {Cubic grains}
   2001/03547 . . . {Cubooctahedral grains}
   2001/03552 . . . {Epitaxial junction grains; Protrusions or protruded grains}
   2001/03558 . . . {Iodide content}
   2001/03564 . . . {Mixed grains or mixture of emulsions}
   2001/0357 . . . {Monodisperse emulsion}
   2001/03576 . . . {Containing no iodide}
   2001/03582 . . . {Octahedral grains}
   2001/03588 . . . {Polydisperse emulsion}
Direct positive emulsions

Having more than one photosensitive layer

Dyestuffs not covered by the groups - G03C 1/38

Dispersants; Agents facilitating spreading

Antiseptic agents

G03C

2001/03594 . . . . Size of the grains
1/04 . . . . with macromolecular additives; with layer-forming substances

2001/041 . . . . [Binder]

2001/042 . . . . [Natural polymer]
1/043 . . . . Polyalkylene oxides; Polyalkylene sulfides; Polyalkylene selenides; Polyalkylene tellurides
1/047 . . . . Proteins, e.g. gelatine derivatives; Hydrolysis or extraction products of proteins

2001/0471 . . . . [Isoelectric point of gelatine]

2001/0473 . . . . [Low molecular weight gelatine]

2001/0475 . . . . [Gelatine characteristics]

2001/0476 . . . . [Swelling of gelatine]

2001/0478 . . . . [Oxidising agent]
1/053 . . . . Polymers obtained by reactions involving only carbon-to-carbon unsaturated bonds, e.g. vinyl polymers

1/06 . . . . with non-macromolecular additives (G03C 1/047 takes precedence; combination of dyes G03C 1/29)

1/061 . . . . [Hydrazine compounds]

2001/062 . . . . [Hydrazine derivative]

2001/064 . . . . [Nitro compounds]

2001/065 . . . . [Quaternary ammonium compound-substituent]

1/067 . . . . Additives for high contrast images, other than hydrazine compounds

2001/068 . . . . [Onium compounds]

1/07 . . . . Substances influencing grain growth during silver salt formation

2001/073 . . . . [Grain growth modifier]

2001/076 . . . . [Silver halide solvent]

1/08 . . . . Sensitivity-increasing substances

2001/0809 . . . . [Chemical sensitisier]

2001/0818 . . . . [Calcium ion content or calcium compound]

2001/0827 . . . . [Cobalt]

2001/0836 . . . . [Copper compounds]

2001/0845 . . . . [Iron compounds]

2001/0854 . . . . [Indium]

2001/0863 . . . . [Group VIII metal compound]

2001/0872 . . . . [Metal dopant-added during precipitation]

2001/0881 . . . . [Metal complex]

2001/089 . . . . [Cyanocomplexes or compounds]

1/09 . . . . Noble metals or mercury; Salts or compounds thereof; Sulfur, selenium or tellurium, or compounds thereof, e.g. for chemical sensitising (G03C 1/34, G03C 1/35 take precedence)

2001/091 . . . . [Gold]

2001/092 . . . . [Mercury]

2001/093 . . . . [Indium]

2001/094 . . . . [Rhodium]

2001/095 . . . . [Disulfide or dichalcogenide compound]

2001/096 . . . . [Sulfur or sulfen compound]

2001/097 . . . . [Selenium]

2001/098 . . . . [Tellurium]

1/10 . . . . Organic substances (G03C 1/061, G03C 1/067 take precedence)

1/102 . . . . [dyes other than methine dyes]

2001/104 . . . . [Fogging agent or process]

2001/106 . . . . [Reduction sensitisation or reduction sensitisier]

2001/108 . . . . [Nucleation accelerating compound]

1/12 . . . . Methine and polymethine dyes

1/122 . . . . [Azacyanines]

1/125 . . . . [Phosphocyanines]

1/127 . . . . [the polymethine chain forming part of a carbocyclic ring]

1/14 . . . . with an odd number of CH groups

1/16 . . . . with one CH group

1/18 . . . . with three CH groups

1/20 . . . . with more than three CH groups

1/22 . . . . with an even number of CH groups

1/24 . . . . Styryl dyes

1/26 . . . . Polymethine chain forming part of a heterocyclic ring

1/28 . . . . together with supersensitising substances

1/29 . . . . the supersensitising mixture being solely composed of dyes (; Combination of dyes, even if the supersensitising effect is not explicitly disclosed)

1/295 . . . . Development accelerators

1/30 . . . . Hardeners

1/301 . . . . [Aldehydes or derivatives thereof, e.g. bisulphite addition products]

1/302 . . . . [containing an aziridine ring]

1/303 . . . . [Di- or polysaccharides]

1/305 . . . . [containing a diazine or triazine ring]

1/306 . . . . [containing an oxirane ring]

1/307 . . . . [Macromolecular substances (polysaccharides G03C 1/303)]

2001/308 . . . . [Vinyl sulfone hardener]

1/31 . . . . Plasticisers

1/32 . . . . Matting agents (see also G03C 1/95)

1/33 . . . . Spot-preventing agents

1/34 . . . . Fog-inhibitors; Stabilisers; Agents inhibiting latent image regression

2001/341 . . . . [Antifoggant]

2001/343 . . . . [Benzotriazole]

2001/345 . . . . [Stabiliser]

1/346 . . . . [Organic derivatives of bivalent sulfur, selenium or tellurium]

2001/348 . . . . [Tetrazaindene]

1/35 . . . . Antiplumming agents, i.e. antibronzing agents; Toners

1/355 . . . . [Organic derivatives of bivalent sulfur, selenium or tellurium]

1/36 . . . . Desensitisers (direct positive emulsions G03C 1/485)

1/37 . . . . Antiseptic agents

1/38 . . . . Dispersants; Agents facilitating spreading

1/385 . . . . [containing fluoride]

1/40 . . . . Dyestuffs not covered by the groups G03C 1/08 - G03C 1/38 or G03C 1/42

1/42 . . . . Developers or their precursors

2001/425 . . . . [Incorporated developer]

1/43 . . . . Processing agents or their precursors, not covered by groups G03C 1/07 - G03C 1/42

1/46 . . . . having more than one photosensitive layer (G03F 7/0952 takes precedence)

1/485 . . . . Direct positive emulsions

2001/48507 . . . . [Internal latent image]

1/48515 . . . . [prefogged]

1/48523 . . . . [characterised by the desensitiser]

1/4853 . . . . [polymethine dyes]
Compositions containing cobalt salts or cobalt compounds as photosensitive substances

Compositions containing azides as the photosensitive substances (for photopolymerisable or photocrosslinkable compositions G03F 7/008)

Compositions containing mercaptobenzothiazole, e.g. photodope systems (used as photoresist G03F 7/004)
Photographic processes or agents therefor; Regeneration of such processing agents
(multicolour processes or agents therefor G03C 7/00; diffusion-transfer processes or agents therefor G03C 5/00; stereo-photographic processes G03C 9/00; photomechanical processes G03F)

5/02 Sensitometric processes, e.g. determining sensitivity, colour sensitivity, gradation, graininess, density; Making sensitometric wedges

5/04 Photo-taking processes

2005/045 Scanning exposure

5/06 Travelling-mask processes

5/08 Photoprinting (G03C 5/18 takes precedence); Processes and means for preventing photoprinting

5/10 Reflex-printing; Photoprinting using fluorescent or phosphorescent means

5/12 Cinematographic processes of taking pictures or printing

5/14 combined with sound-recording (sound-recording in general G11B)

5/16 X-ray, infra-red, or ultra-violet ray processes

2005/162 Roomlight material-bright room type material

5/164 Infra-red processes

2005/166 Ultraviolet sensitive material or UV exposure

2005/168 X-ray material or process

5/17 using screens to intensify X-ray images (X-ray conversion screens G21K 4/00)

5/18 Diazo-type processes, e.g. thermal development, or agents therefor

5/20 Reflex-printing

5/22 Direct chromate processes, i.e. without preceding silver picture, or agents therefor

5/26 Processes using silver-salt-containing photosensitive materials or agents therefor (physical development G03C 5/58)

5/261 Non-bath processes, e.g. using pastes, webs, viscous compositions

5/262 Using materials covered by groups G03C 1/42 and G03C 1/43

5/263 with an exterior influence, e.g. ultrasonics, electrical or thermal means (G03C 5/26 takes precedence; dry silver systems G03C 1/498)

5/264 Supplying of photographic processing chemicals; Preparation or packaging thereof

5/265 [of powders, granulates, tablets (G03C 5/267 takes precedence)]

5/266 [of solutions or concentrates (G03C 5/267 takes precedence)]

5/267 [Packaging; Storage]

5/268 [Processing baths not provided for elsewhere, e.g. pre-treatment, stop, intermediate or rinse baths (colour processing G03C 7/3046)]

5/28 Cinematographic-film processes

5/29 Development processes or agents therefor (G03C 5/38, G03C 5/50 take precedence)

5/30 Developers

2005/3007 Ascorbic acid

5/3014 Hydrazine; Hydroxylamine; Urea; Derivatives thereof

5/3021 with oxidisable hydroxyl or amine groups linked to an aromatic ring

5/3028 Heterocyclic compounds (G03C 5/3021 takes precedence)

5/3035 containing a diazole ring
Multicolour photographic processes or agents therefor; Regeneration of such processing agents; Photosensitive materials for multicolour processes (diffusion transfer processes G03C 8/00)

7/00

7/02 . . . Direct bleach-out processes; Materials therefor; Preparing or processing such materials
7/04 . . . Additive processes using colour screens; Materials therefor; Preparing or processing such materials
7/06 . . . Manufacture of colour screens
7/08 . . . from diversely-coloured grains irregularly distributed
7/10 . . . with regular areas of colour, e.g. bands, lines, dots
7/12 . . . by photo-exposure (photomechanical production of optical colour artifacts such as colour screens, for purposes other than for additive colour photography G03F 7/0007)
7/14 . . . Additive processes using lenticular screens; Materials therefor; Preparing or processing such materials
7/18 . . . Processes for the correction of the colour image in subtractive colour photography (using coloured couplers G03C 7/333)
7/20 . . . Subtractive colour processes using differently sensitised films, each coated on its own base, e.g. bipacks, tripacks
7/22 . . . Subtractive cinematographic processes; Materials therefor; Preparing or processing such materials
7/24 . . . combined with sound-recording (sound recording in general G11B)
7/25 . . . Dye-imbition processes; Materials therefor; Preparing or processing such materials
7/26 . . . Silver halide emulsions for subtractive colour processes (G03C 7/28 - G03C 7/30 take precedence)
7/28 . . . Silver dye bleach processes; Materials therefor; Preparing or processing such materials
7/29 . . . Azo dyes therefor
7/30 . . . Colour processes using colour-coupling substances; Materials therefor; Preparing or processing such materials
7/327 . . . . Macromolecular coupling substances
7/3275 . . . . [Polymers obtained by reactions involving only carbon-to-carbon unsaturated bonds, e.g. vinyl polymers]
7/333 . . . . Coloured coupling substances, e.g. for the correction of the coloured image
7/3335 . . . . [containing an azo chromophore]
7/34 . . . . Couplers containing phenols (G03C 7/327, G03C 7/333 take precedence)
7/342 . . . . [Combination of phenolic or naphtholic couplers]
7/344 . . . . [Naphtholic couplers]
7/346 . . . . [Phenolic couplers]
2007/348 . . . . [Ureido coupler]
7/36 . . . . Couplers containing compounds with active methylene groups (G03C 7/327, G03C 7/333 take precedence)
7/362 . . . . [Benzoyl-acetanilide couplers]
7/365 . . . . [Combination of couplers]
7/367 . . . . [Pyvaloyl-acetanilide couplers]
7/38 . . . . in rings
7/3805 . . . . [Combination of couplers]
7/381 . . . . [Heterocyclic compounds (G03C 7/384 takes precedence)]
7/3815 . . . . [with one heterocyclic ring]
7/382 . . . . [with two heterocyclic rings]
7/3825 . . . . . . . . . . [the nuclei containing only nitrogen as hetero atoms]
7/383 . . . . . . . . . . {three nitrogen atoms}
7/3835 . . . . . . . . . . {four nitrogen atoms}
7/384 . . . . . . . . . . in pyrazolone rings
7/388 . . . . Processes for the incorporation in the emulsion of substances liberating photographically active agents or colour-coupling substances; Solvents therefore { (incorporation of additives other than couplers G03C 1/005) }
7/3882 . . . . [characterised by the use of a specific polymer or latex]
7/3885 . . . . [characterised by the use of a specific solvent]
2007/3887 . . . . [High-boiling solvent]
7/392 . . . . Additives (G03C 7/30 - G03C 7/32 take precedence)
7/39204 . . . . [Inorganic compounds]
7/39208 . . . . [Organic compounds (macromolecular additives G03C 7/396)]
7/39212 . . . . [Carbocyclic]
7/39216 . . . . [with OH groups]
2007/3922 . . . . [Bisphenol compound]
7/39224 . . . . [with a nitrogen-containing function]
7/39228 . . . . [with a sulfur-containing function]
7/39232 . . . . [with an oxygen-containing function (G03C 7/39216 takes precedence)]
7/39236 . . . . [with a function having at least two elements among nitrogen, sulfur or oxygen (G03C 7/39216 takes precedence)]
7/3924 . . . . [Heterocyclic]
7/39244 . . . . [the nucleus containing only nitrogen as hetero atoms]
7/39248 . . . . [one nitrogen atom]
7/39252 . . . . [two nitrogen atoms]
7/39256 . . . . [three nitrogen atoms]
7/3926 . . . . [four or more nitrogen atoms]
8/00 Diffusion transfer processes or agents therefor; Photosensitive materials for such processes

8/02 . . . Photosensitive materials characterised by the image-forming section

8/04 . . . the substances transferred by diffusion consisting of inorganic or organo-metallic compounds derived from photosensitive noble metals

8/045 . . . {with the formation of a subtractive dye image}

8/06 . . . Silver salt diffusion transfer

8/08 . . . the substances transferred by diffusion consisting of organic compounds (G03C 8/04 takes precedence)

8/10 . . . of dyes or their precursors

8/12 . . . characterised by the releasing mechanism

8/14 . . . Oxidation of the chromogenic substances

8/16 . . . . . . . initially diffusible in alkaline environment

8/18 . . . . . . . Dye developers

8/20 . . . . . . . initially non-diffusible in alkaline environment

8/22 . . . . . . Reduction of the chromogenic substance

8/24 . . . Photosensitive materials characterised by the image-receiving section

8/243 . . . {Toners for the silver image}

8/246 . . . {Non-macromolecular agents inhibiting image regression or formation of ghost images}

8/26 . . . Image-receiving layers (G03C 8/52 takes precedence)
for protection from ultra-violet light

Stripping or transferring intact photographic layers

Drying

Colouring

with powdered or molten colours

Preparing plates or films for the manufacture of photographic negatives by non-photographic processes

Removing emulsion from waste photographic material; Recovery of photosensitive (or other) substances (electrolytic recovery of metals)

Details

100 crystal face

110 crystal face

111 crystal face

Auxiliary or superadditive developer

Additive

Anti-fading

Anti-sticking

Apparatus

Advanced photographic system

Blue-sensitive layer

Blue high-sensitive layer

Blue low-sensitive layer

Blue medium-sensitive layer

Buffer

Black-and-white material

Cellulose acetate

Conditioning

Colour negative

Colour paper

Developer or developing

Dye or dye precursor

Filter dye

Fragmentable electron donating sensitisier

Filter layer

Gamma

Gelatine content

Gelatine-silver ratio

Green-sensitive layer

Green high-sensitive layer

Green low-sensitive layer

Green medium-sensitive layer

Heterocyclic

Hydroquinone

Intermediate layer

Latex

Leuco dye

Lippmann (fine grain) emulsion

Laser exposure

Mercapto compound

Movie

Mixtures in general

Process

pH value

Polyhydroxybenzene

pKa value

Polymer

Polyoxyethylene

Pressure means or conditions

Polyvinyl alcohol

Polyvinyl chloride

Rapid processing

Red-sensitive layer

Red high-sensitive layer

Red low-sensitive layer

Red medium-sensitive layer

Replenishment rate or conditions

Sensitometric characteristics

R-SO₂SM compound

Temperature