SECTION G — PHYSICS

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

Note(s) [4, 2011.01]

- This class does not cover reproduction of pictures or patterns by scanning and converting into electrical signals, which is covered by subclass H04N.
- 2. In this class, the following terms are used with the meaning indicated:
 - "records" means photographs or any other kind of latent, directly-visible or permanent storage of pictorial information, which consist of an imagewise distribution of a quantity, e.g. an electric charge pattern, recorded on a carrier member;
 - "optical" applies not only to visible light but also to ultraviolet or infrared radiations.

APPARATUS OR ARRANGEMENTS FOR TAKING PHOTOGRAPHS OR FOR PROJECTING OR VIEWING THEM; APPARATUS OR ARRANGEMENTS EMPLOYING ANALOGOUS TECHNIQUES USING WAVES OTHER THAN OPTICAL WAVES; ACCESSORIES THEREFOR (optical parts of such apparatus G02B; photosensitive materials or processes for photographic purposes G03C; apparatus for processing exposed photographic materials G03D) [4]

Note(s)

- This subclass <u>covers</u>, as far as processes are concerned, only processes characterised by the use or manipulation of apparatus classifiable <u>per se</u> in this subclass.
- 2. In this subclass, the following term is used with the meaning indicated:
 - "camera" means apparatus or arrangements for taking photographs.

Subclass index

DETAILS Common to at least two of cameras, projectors and printers Common to cameras only	1/00-5/00
exposure, control thereof	7/00, 9/00
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Common to projectors only	
Common to printers only	27/00
APPARATUS	
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Projectors, viewers; devices for changing pictures	21/00, 25/00, 23/00
Printing apparatus	
Combinations with other apparatus	29/00, 30/00
SPECIAL TECHNIQUES	
Associated working with sound apparatus	31/00
Colour photography; stereoscopic photography; panoramic photography; high-speed photography	
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Details common to at least two of the following types of apparatus: cameras, projectors, printers

1/00 Film-strip handling of general interest for cameras, projectors or printers [1, 2006.01, 2021.01]

1/02 • Moving film strip by pull on end thereof **[1, 2006.01, 2021.01]**

1/04 • • Pull exerted by take-up spool **[1, 2006.01, 2021.01]**

1/06 • • • rotated by lever-operated ratchet and pawl **[1, 2006.01, 2021.01]**

1/08 • • rotated by band, chain, rack, or other linear reciprocating operation [1, 2006.01, 2021.01]

1/10 • • • rotated by knob through gearing **[1, 2006.01, 2021.01]**

1/12 • • rotated by motor, e.g. spring [1, 2006.01, 2021.01]

- G03B 1/14 Special arrangements to ensure constant length of 5/08 movement of film [1, 2006.01, 2021.01] • by film-arresting pins [1, 2006.01, 2021.01] 1/16 **Details common to cameras** 1/18 Moving film strip by means which act on the film between the ends thereof [1, 2006.01, 2021.01] • Acting means [1, 2006.01, 2021.01] 1/20 1/22 Claws or pins engaging holes in the film [1, 2006.01, 2021.01] 1/24 Sprockets engaging holes in the film [1, 2006.01, 2021.01] 7/01 1/26 Spiked wheels or pins not penetrating the film [1, 2006.01, 2021.01] 7/02 1/28 Shuttle feed [1, 2006.01, 2021.01] 1/30 Belt feed [1, 2006.01, 2021.01] 1/32 Friction grippers or rollers [1, 2006.01, 2021.01] 1/34 • Beaters [1, 2006.01, 2021.01] 7/04 1/36 Pneumatic acting means [1, 2006.01, 2021.01] 1/38 • embodying Geneva motion, e.g. Maltese-cross gearing [1, 2006.01, 2021.01] 7/06 · embodying frictional coupling or 1/40 clutches [1, 2006.01, 2021.01] 1/42 Guiding, framing, or constraining film in desired 7/08 position relative to lens system [1, 2006.01, 2021.01] 1/44 Guides engaging edge of film (gates G03B 1/48) [1, 2006.01, 2021.01] 1/46 Rollers engaging face of film, e.g. barrel, waisted, conical (gates G03B 1/48) [1, 2006.01, 2021.01] 1/48 Gates or pressure devices, e.g. 7/083 plate [1, 2006.01, 2021.01] 1/50 adjustable or interchangeable, e.g. for different 7/085 film widths [1, 2006.01, 2021.01] 7/087 1/52 Pneumatic pressure devices [1, 2006.01, 2021.01] 7/089 · Tensioning or loop-maintaining 1/54 devices [1, 2006.01, 2021.01] 7/091 1/56 • Threading; Loop forming [1, 2006.01, 2021.01] 7/093 • automatic [1, 2006.01, 2021.01] 1/58 1/60 Measuring or indicating length of the used or unused 7/095 film; Counting number of 7/097 exposures [1, 2006.01, 2021.01] 1/62 involving locking or stop-motion devices [1, 2006.01, 2021.01] 1/64 by means which ascertain the radius of the film coiled on a spool [1, 2006.01, 2021.01] 1/66 Counting number of exposures [1, 2006.01, 2021.01] 7/10 3/00 Focusing arrangements of general interest for cameras, projectors or printers [1, 2006.01, 2021.01] 7/12 3/02 moving lens along baseboard [1, 2006.01, 2021.01] 3/04 adjusting position of image plane without moving lens [1, 2006.01, 2021.01] 3/06 using movable reflectors to alter length of lightpath [1, 2006.01, 2021.01] • Power-operated focusing [1, 2006.01, 2021.01] 3/10

 - 3/12 adapted for remote control [1, 2006.01, 2021.01]

5/00 Adjustment of optical system relative to image or object surface other than for focusing of general interest for cameras, projectors or printers [1, 2006.01, 2021.01]

- 5/02 • Lateral adjustment of lens [1, 2006.01, 2021.01]
- 5/04 Vertical adjustment of lens: Rising fronts [1, 2006.01, 2021.01]
- 5/06 Swinging lens about normal to the optical axis [1, 2006.01, 2021.01]

• Swing backs [1, 2006.01, 2021.01]

- Control of exposure by setting shutters, diaphragms or filters, separately or conjointly (control of exposure in television cameras by means of circuitry influencing the optical part of the camera H04N 23/75) [1, 2006.01, 2014.01, 2021.01]
- · with selection of either manual or automatic mode [2014.01, 2021.01]
- Control effected by setting a graduated member on the camera in accordance with indication or reading afforded by a light meter, which may be either separate from, or built into, camera body [1, 2006.01, 2021.01]
- Control effected by hand adjustment of a member that senses indication of a pointer of a built-in lightsensitive device, e.g. by restoring pointer to a fixed associated reference mark [1, 2006.01, 2021.01]
- by a follow-up movement of an associated reference mark to the pointer [1, 2006.01, 2021.01]
- · Control effected solely on the basis of the response, to the intensity of the light received by the camera, of a built-in light-sensitive device [1, 2006.01, 2014.01, 2021.01]
- 7/0805 • Setting of priority modes **[2014.01, 2021.01]**
- 7/081 • Analogue circuits [3, 2006.01, 2021.01]
- for control of exposure time [3, 2006.01, 2021.01]
- • for control of aperture [3, 2006.01, 2021.01]
- • for control of both exposure time and aperture [3, 2006.01, 2021.01]
- for storage of exposure value in mirror reflex cameras [3, 2006.01, 2021.01]
- • Digital circuits [3, 2006.01, 2021.01]
- for control of exposure time [3, 2006.01, 2021.01]
- • for control of aperture [3, 2006.01, 2021.01]
- • for control of both exposure time and aperture [3, 2006.01, 2021.01]
- 7/099 • Arrangement of photoelectric elements in or on the camera [3, 2006.01, 2014.01, 2021.01]
- 7/0993 • in the camera **[2014.01, 2021.01]**
- 7/0997 • • Through the lens [TTL] measuring [2014.01, 2021.01]
- • a servo-motor providing energy to move the setting member [1, 2006.01, 2021.01]
- a hand-actuated member moved from one position to another providing the energy to move the setting member, e.g. depression of shutter release button causes a stepped feeler to co-operate with the pointer of the light-sensitive device to set the diaphragm and thereafter release the shutter [1, 2006.01, 2021.01]
- setting of both shutter and diaphragm aperture 7/14 being effected so as to give the optimum compromise between depth of field and shortness of exposure [1, 2006.01, 2021.01]
- 7/16 in accordance with both the intensity of the flash source and the distance of the flash source from the object, e.g. in accordance with the "guide number" of the flash bulb and the focusing of the camera [1, 2006.01, 2014.01, 2021.01]
- 7/17 Selection of modes in flash units by exposure control arrangements [2014.01, 2021.01]

7/18	 in accordance with light-reducing "factor" of filter or other obturator used with or on the lens of the camera [1, 2006.01, 2021.01] 	9/42	• • • • with adjustable slot; with mechanism controlling relative movement of plates to form slot [1, 2006.01, 2021.01]
7/20	• in accordance with change of	9/44	• • • Curved track and plate [1, 2006.01, 2021.01]
,,_0	lens [1, 2006.01, 2021.01]	9/46	 Flap shutters pivoting about axis in plane of
7/22	 in accordance with temperature or height, e.g. in aircraft [1, 2006.01, 2021.01] 	9/48	flap [1, 2006.01, 2021.01]
7/24	automatically in accordance with markings or other	9/50	 Double flap [1, 2006.01, 2021.01] Louvre type [1, 2006.01, 2021.01]
	means indicating film speed or kind of film on the	9/52	 Barrel shutters [1, 2006.01, 2021.01]
	magazine to be inserted in the	9/54	 Conical shutters; Rotating plate with axis of
	camera [3, 2006.01, 2021.01]	2,01	rotation inclined to optical axis of
7/26	 Power supplies; Circuitry or arrangement to switch on the power source; Circuitry to check the power 		shutter [1, 2006.01, 2021.01]
	source voltage [3, 2006.01, 2021.01]	9/58	 Means for varying duration of "open" period of shutter [1, 2006.01, 2021.01]
7/28	 Circuitry to measure or to take account of the object contrast [3, 2006.01, 2021.01] 	9/60	• • by varying speed of movement of obturating members [1, 2006.01, 2021.01]
7/30	Safety arrangements for control of	9/62	 by varying interval of time between end of
	exposure [2014.01, 2021.01]		opening movement and beginning of closing
9/00	Exposure-making shutters;		movement [1, 2006.01, 2021.01]
	Diaphragms [1, 2006.01, 2021.01]	9/64	• Mechanism for delaying opening of shutter (separate
9/02	 Diaphragms [1, 2, 2006.01, 2021.01] 	0./66	from shutter G03B 17/38) [1, 2006.01, 2021.01]
9/04	 Single movable plate with two or more apertures 	9/66	 Means for cocking shutter separate from means for releasing shutter [1, 2006.01, 2021.01]
	of graded size, e.g. sliding plate or pivoting	9/68	 Cocking effected by movement of
0./06	plate [1, 2006.01, 2021.01]	2, 33	film [1, 2006.01, 2021.01]
9/06	 Two or more co-operating pivoted blades e.g. iris type (shutters functioning as diaphragms by 	9/70	 with flash-synchronising
	limiting extent of opening movement		contacts [1, 2006.01, 2021.01]
	G03B 9/08) [1, 2006.01, 2021.01]	11/00	Filters or other obturators specially adapted for
9/07	• • with means for presetting the	11,00	photographic purposes [1, 2006.01, 2021.01]
0.700	diaphragm [1, 2006.01, 2021.01]	11/02	• Sky masks [1, 2006.01, 2021.01]
9/08 9/10	Shutters [1, 2, 2006.01, 2021.01]Blade or disc rotating or pivoting about axis	11/04	 Hoods or caps for eliminating unwanted light from
3/10	normal to its plane [1, 2006.01, 2021.01]		lenses, viewfinders, or focusing
9/12	• • • Two relatively-adjustable aperture-defining	11/00	aids [1, 2006.01, 2021.01]
	members moving as a	11/06	 Lens caps for exposure making [1, 2006.01, 2021.01]
	unit [1, 2006.01, 2021.01]		
9/14	 • • • Two separate members moving in opposite directions [1, 2006.01, 2021.01] 	13/00	Viewfinders; Focusing aids for cameras; Means for focusing for cameras; Autofocus systems for
9/16	• • • Two separate members moving in the same		cameras [1, 5, 2006.01, 2021.01]
9/18	direction [1, 2006.01, 2021.01] • • • More than two members [1, 2006.01, 2021.01]	13/02	• Viewfinders [1, 2006.01, 2021.01]
9/10	• • • each moving in a single direction first to	13/04	 of direct-vision type, e.g. frame, sighting mark [1, 2006.01, 2021.01]
3720	open and then to	13/06	with lenses with or without
	reclose [1, 2006.01, 2021.01]	13, 00	reflectors [1, 2006.01, 2021.01]
9/22	• • • each moving in one direction to open and	13/08	 • with reflected image of
	then in opposite direction to close, e.g. iris		frame [1, 2006.01, 2021.01]
9/24	type [1, 2006.01, 2021.01]• Adjusting size of aperture formed by members	13/10	• • adjusting viewfinder field [1, 2006.01, 2021.01]
3/24	when fully open so as to constitute a virtual	13/12	• • • to compensate for change of camera lens or size of picture [1, 2006.01, 2021.01]
	diaphragm that is	13/14	• • • to compensate for parallax due to short
	adjustable [1, 2006.01, 2021.01]	15/14	range [1, 2006.01, 2021.01]
9/26	• • • incorporating cover blade or	13/16	 combined with focusing
9/28	blades [1, 2006.01, 2021.01] • • Roller blind or flexible plate [1, 2006.01, 2021.01]		aids [1, 2006.01, 2021.01]
9/30	Single blind with multiple slots or other	13/18	• Focusing aids [1, 2006.01, 2021.01]
5750	aperture [1, 2006.01, 2021.01]	13/20	• Rangefinders coupled with focusing arrangements
9/32	• • • Double blind [1, 2006.01, 2021.01]		e.g. adjustment of rangefinder automatically focusing camera [1, 2006.01, 2021.01]
9/34	 • • with adjustable slot; with mechanism 	13/22	• • coupling providing for compensation upon
	controlling relative movement of blinds to		change of camera lens [1, 2006.01, 2021.01]
0/26	form slot [1, 2006.01, 2021.01]	13/24	• • Focusing screens [1, 2006.01, 2021.01]
9/36 9/38	• Sliding rigid plate [1, 2006.01, 2021.01]• Single rigid plate with multiple slots or other	13/26	• • with magnifiers for inspecting image formed or
5/30	apertures [1, 2006.01, 2021.01]	10/00	screen [1, 2006.01, 2021.01]
9/40	• • • Double plate [1, 2006.01, 2021.01]	13/28	• • • Image-splitting devices [1, 2006.01, 2021.01]
	· · · · · · · · · · · · · · · · ·	13/30 13/32	 • indicating depth of field [5, 2006.01, 2021.01] • Means for focusing [5, 2006.01, 2021.01]
		13/34	 • Power focusing [5, 2006.01, 2021.01] • Power focusing [5, 2006.01, 2021.01]
		10/04	1 0 WC1 10 Cushing [0, 2000.01, 2021.01]

13/36	• • • Autofocus systems [5, 2006.01, 2021.01]	17/34	• • • Changing plates or cut films [1, 2006.01, 2021.01]
15/00	Special procedures for taking photographs; Apparatus therefor [1, 2006.01, 2021.01]	17/36	• Counting number of exposures (of film strips G03B 1/66) [1, 2006.01, 2021.01]
15/02	• Illuminating scene [1, 2006.01, 2021.01]	17/38	• Releasing-devices separate from shutter (integral
15/03	 Combinations of cameras with lighting apparatus; 	17,50	with shutter G03B 9/08) [1, 2006.01, 2021.01]
	Flash units [1, 2006.01, 2021.01]	17/40	• • with delayed or timed action [1, 2006.01, 2021.01]
15/035	Combinations of cameras with incandescent	17/42	 Interlocking between shutter operation and advance
.=	lamps [1, 2006.01, 2021.01]		of film or change of plate or cut-
15/04	Combinations of cameras with non-electronic flesh apparatus. Non electronic flesh		film [1, 2006.01, 2021.01]
	flash apparatus; Non-electronic flash units [1, 2006.01, 2021.01]	17/44	Means for exchanging focusing screen and light-
15/05	Combinations of cameras with electronic flash	17/46	 sensitive material [1, 2006.01, 2021.01] Means for exposing single frames in motion-picture
157 05	apparatus; Electronic flash	17/46	camera [1, 2006.01, 2021.01]
	units [1, 2006.01, 2021.01]	17/48	 adapted for combination with other photographic or
15/06	 Special arrangements of screening, diffusing, or 		optical apparatus [1, 2006.01, 2021.01]
	reflecting devices, e.g. in	17/50	 with both developing and finishing
15/07	studio [1, 2006.01, 2021.01]		apparatus [1, 2006.01, 2021.01]
15/07	• • Arrangements of lamps in studios [1, 2006.01, 2021.01]	17/52	• • • of the Land type [1, 2006.01, 2021.01]
15/08	• Trick photography [1, 2006.01, 2021.01]	17/53	• • • for automatically delivering a finished picture
15/10	 using back-projection, i.e. blending artificial 		after a signal causing exposure has been given, e.g. by pushing a button, by inserting a
	background with real		coin [1, 2006.01, 2021.01]
	foreground [1, 2006.01, 2021.01]	17/54	• • with projector [1, 2006.01, 2021.01]
15/12	• • using mirrors [1, 2006.01, 2021.01]	17/55	 with provision for heating or cooling, e.g. in
15/14	for taking photographs during medical		aircraft [1, 2006.01, 2021.01]
15/16	operations [1, 2006.01, 2021.01]	17/56	 Accessories (carrying-cases
15/16	 for photographing the track of moving objects (high- speed photography 		A45C 11/38) [1, 2006.01, 2021.01]
	G03B 39/00) [1, 2006.01, 2021.01]	17/58	 Attachments for converting cameras into reflex cameras [1, 2006.01, 2021.01]
	Details of cameras or camera bodies; Accessories therefor (lens hoods or caps		
. =	G03B 11/04) [1, 2006.01, 2021.01]	19/00	Cameras (details G03B 17/00) [1, 2006.01, 2021.01]
17/02	• Bodies [1, 2006.01, 2021.01]	19/00 19/02	 Cameras (details G03B 17/00) [1, 2006.01, 2021.01] Still-picture cameras [1, 2006.01, 2021.01]
17/02 17/04	Bodies [1, 2006.01, 2021.01]collapsible, foldable or extensible, e.g. book	19/02 19/04	
17/04	 Bodies [1, 2006.01, 2021.01] collapsible, foldable or extensible, e.g. book type [1, 2006.01, 2021.01] 	19/02	 Still-picture cameras [1, 2006.01, 2021.01] Roll-film cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film,
	Bodies [1, 2006.01, 2021.01]collapsible, foldable or extensible, e.g. book	19/02 19/04	 Still-picture cameras [1, 2006.01, 2021.01] Roll-film cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will
17/04	 Bodies [1, 2006.01, 2021.01] collapsible, foldable or extensible, e.g. book type [1, 2006.01, 2021.01] with exposure meters or other indicators built into body but not connected to other camera members [1, 2006.01, 2021.01] 	19/02 19/04	 Still-picture cameras [1, 2006.01, 2021.01] Roll-film cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will (G03B 19/07 takes
17/04	 Bodies [1, 2006.01, 2021.01] collapsible, foldable or extensible, e.g. book type [1, 2006.01, 2021.01] with exposure meters or other indicators built into body but not connected to other camera members [1, 2006.01, 2021.01] Waterproof bodies or 	19/02 19/04 19/06	 Still-picture cameras [1, 2006.01, 2021.01] Roll-film cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will (G03B 19/07 takes precedence) [1, 2006.01, 2021.01]
17/04 17/06 17/08	 Bodies [1, 2006.01, 2021.01] collapsible, foldable or extensible, e.g. book type [1, 2006.01, 2021.01] with exposure meters or other indicators built into body but not connected to other camera members [1, 2006.01, 2021.01] Waterproof bodies or housings [1, 2006.01, 2021.01] 	19/02 19/04	 Still-picture cameras [1, 2006.01, 2021.01] Roll-film cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will (G03B 19/07 takes
17/04 17/06 17/08 17/10	 Bodies [1, 2006.01, 2021.01] collapsible, foldable or extensible, e.g. book type [1, 2006.01, 2021.01] with exposure meters or other indicators built into body but not connected to other camera members [1, 2006.01, 2021.01] Waterproof bodies or housings [1, 2006.01, 2021.01] Soundproof bodies [1, 2006.01, 2021.01] 	19/02 19/04 19/06	 Still-picture cameras [1, 2006.01, 2021.01] Roll-film cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will (G03B 19/07 takes precedence) [1, 2006.01, 2021.01] having more than one objective [1, 2006.01, 2021.01] with provision for alternative use with plates or
17/04 17/06 17/08	 Bodies [1, 2006.01, 2021.01] collapsible, foldable or extensible, e.g. book type [1, 2006.01, 2021.01] with exposure meters or other indicators built into body but not connected to other camera members [1, 2006.01, 2021.01] Waterproof bodies or housings [1, 2006.01, 2021.01] Soundproof bodies [1, 2006.01, 2021.01] with means for supporting objectives, 	19/02 19/04 19/06 19/07 19/08	 Still-picture cameras [1, 2006.01, 2021.01] Roll-film cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will (G03B 19/07 takes precedence) [1, 2006.01, 2021.01] having more than one objective [1, 2006.01, 2021.01] with provision for alternative use with plates or cut-films [1, 2006.01, 2021.01]
17/04 17/06 17/08 17/10	 Bodies [1, 2006.01, 2021.01] collapsible, foldable or extensible, e.g. book type [1, 2006.01, 2021.01] with exposure meters or other indicators built into body but not connected to other camera members [1, 2006.01, 2021.01] Waterproof bodies or housings [1, 2006.01, 2021.01] Soundproof bodies [1, 2006.01, 2021.01] with means for supporting objectives, supplementary lenses, filters, masks, or 	19/02 19/04 19/06	 Still-picture cameras [1, 2006.01, 2021.01] Roll-film cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will (G03B 19/07 takes precedence) [1, 2006.01, 2021.01] having more than one objective [1, 2006.01, 2021.01] with provision for alternative use with plates or cut-films [1, 2006.01, 2021.01] Plate or cut-film cameras (with provision for
17/04 17/06 17/08 17/10	 Bodies [1, 2006.01, 2021.01] collapsible, foldable or extensible, e.g. book type [1, 2006.01, 2021.01] with exposure meters or other indicators built into body but not connected to other camera members [1, 2006.01, 2021.01] Waterproof bodies or housings [1, 2006.01, 2021.01] Soundproof bodies [1, 2006.01, 2021.01] with means for supporting objectives, 	19/02 19/04 19/06 19/07 19/08	 Still-picture cameras [1, 2006.01, 2021.01] Roll-film cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will (G03B 19/07 takes precedence) [1, 2006.01, 2021.01] having more than one objective [1, 2006.01, 2021.01] with provision for alternative use with plates or cut-films [1, 2006.01, 2021.01] Plate or cut-film cameras (with provision for alternative use with roll film
17/04 17/06 17/08 17/10 17/12	 Bodies [1, 2006.01, 2021.01] collapsible, foldable or extensible, e.g. book type [1, 2006.01, 2021.01] with exposure meters or other indicators built into body but not connected to other camera members [1, 2006.01, 2021.01] Waterproof bodies or housings [1, 2006.01, 2021.01] Soundproof bodies [1, 2006.01, 2021.01] with means for supporting objectives, supplementary lenses, filters, masks, or turrets [1, 2006.01, 2021.01] interchangeably [1, 2006.01, 2021.01] for containing both motion-picture camera and 	19/02 19/04 19/06 19/07 19/08 19/10	 Still-picture cameras [1, 2006.01, 2021.01] Roll-film cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will (G03B 19/07 takes precedence) [1, 2006.01, 2021.01] having more than one objective [1, 2006.01, 2021.01] with provision for alternative use with plates or cut-films [1, 2006.01, 2021.01] Plate or cut-film cameras (with provision for alternative use with roll film G03B 19/08) [1, 2006.01, 2021.01]
17/04 17/06 17/08 17/10 17/12 17/14 17/16	 Bodies [1, 2006.01, 2021.01] collapsible, foldable or extensible, e.g. book type [1, 2006.01, 2021.01] with exposure meters or other indicators built into body but not connected to other camera members [1, 2006.01, 2021.01] Waterproof bodies or housings [1, 2006.01, 2021.01] Soundproof bodies [1, 2006.01, 2021.01] with means for supporting objectives, supplementary lenses, filters, masks, or turrets [1, 2006.01, 2021.01] interchangeably [1, 2006.01, 2021.01] for containing both motion-picture camera and still-picture camera [1, 2006.01, 2021.01] 	19/02 19/04 19/06 19/07 19/08	 Still-picture cameras [1, 2006.01, 2021.01] Roll-film cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will (G03B 19/07 takes precedence) [1, 2006.01, 2021.01] having more than one objective [1, 2006.01, 2021.01] with provision for alternative use with plates or cut-films [1, 2006.01, 2021.01] Plate or cut-film cameras (with provision for alternative use with roll film G03B 19/08) [1, 2006.01, 2021.01]
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17/04 17/06 17/08 17/10 17/12 17/14 17/16 17/17	 Bodies [1, 2006.01, 2021.01] collapsible, foldable or extensible, e.g. book type [1, 2006.01, 2021.01] with exposure meters or other indicators built into body but not connected to other camera members [1, 2006.01, 2021.01] Waterproof bodies or housings [1, 2006.01, 2021.01] Soundproof bodies [1, 2006.01, 2021.01] with means for supporting objectives, supplementary lenses, filters, masks, or turrets [1, 2006.01, 2021.01] interchangeably [1, 2006.01, 2021.01] for containing both motion-picture camera and still-picture camera [1, 2006.01, 2021.01] with reflectors arranged in beam forming the photographic image, e.g. for reducing dimensions of camera [1, 2006.01, 2021.01] Signals indicating condition of a camera member or suitability of light (indicating depth of field G03B 13/30) [1, 2006.01, 2021.01] 	19/02 19/04 19/06 19/07 19/08 19/10	 Still-picture cameras [1, 2006.01, 2021.01] Roll-film cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will (G03B 19/07 takes precedence) [1, 2006.01, 2021.01] having more than one objective [1, 2006.01, 2021.01] with provision for alternative use with plates or cut-films [1, 2006.01, 2021.01] Plate or cut-film cameras (with provision for alternative use with roll film G03B 19/08) [1, 2006.01, 2021.01] Reflex cameras with single objective and a movable reflector or a partly-transmitting mirror [1, 2006.01, 2021.01] with paired lenses, one of which forms image on photographic material and the other forms a corresponding image on a focusing screen [1, 2006.01, 2021.01]
17/04 17/06 17/08 17/10 17/12 17/14 17/16 17/17 17/18	 Bodies [1, 2006.01, 2021.01] collapsible, foldable or extensible, e.g. book type [1, 2006.01, 2021.01] with exposure meters or other indicators built into body but not connected to other camera members [1, 2006.01, 2021.01] Waterproof bodies or housings [1, 2006.01, 2021.01] Soundproof bodies [1, 2006.01, 2021.01] with means for supporting objectives, supplementary lenses, filters, masks, or turrets [1, 2006.01, 2021.01] interchangeably [1, 2006.01, 2021.01] for containing both motion-picture camera and still-picture camera [1, 2006.01, 2021.01] with reflectors arranged in beam forming the photographic image, e.g. for reducing dimensions of camera [1, 2006.01, 2021.01] Signals indicating condition of a camera member or suitability of light (indicating depth of field G03B 13/30) [1, 2006.01, 2021.01] visible in viewfinder [1, 2006.01, 2021.01] 	19/02 19/04 19/06 19/07 19/08 19/10 19/12	 Still-picture cameras [1, 2006.01, 2021.01] Roll-film cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will (G03B 19/07 takes precedence) [1, 2006.01, 2021.01] having more than one objective [1, 2006.01, 2021.01] with provision for alternative use with plates or cut-films [1, 2006.01, 2021.01] Plate or cut-film cameras (with provision for alternative use with roll film G03B 19/08) [1, 2006.01, 2021.01] Reflex cameras with single objective and a movable reflector or a partly-transmitting mirror [1, 2006.01, 2021.01] with paired lenses, one of which forms image on photographic material and the other forms a corresponding image on a focusing screen [1, 2006.01, 2021.01] Pin-hole cameras [1, 2006.01, 2021.01] Motion-picture cameras (with non-intermittently
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17/04 17/06 17/08 17/10 17/12 17/14 17/16 17/17 17/18	 Bodies [1, 2006.01, 2021.01] collapsible, foldable or extensible, e.g. book type [1, 2006.01, 2021.01] with exposure meters or other indicators built into body but not connected to other camera members [1, 2006.01, 2021.01] Waterproof bodies or housings [1, 2006.01, 2021.01] Soundproof bodies [1, 2006.01, 2021.01] with means for supporting objectives, supplementary lenses, filters, masks, or turrets [1, 2006.01, 2021.01] interchangeably [1, 2006.01, 2021.01] for containing both motion-picture camera and still-picture camera [1, 2006.01, 2021.01] with reflectors arranged in beam forming the photographic image, e.g. for reducing dimensions of camera [1, 2006.01, 2021.01] Signals indicating condition of a camera member or suitability of light (indicating depth of field G03B 13/30) [1, 2006.01, 2021.01] visible in viewfinder [1, 2006.01, 2021.01] with means for cutting-off film [1, 2006.01, 2021.01] with means for separately producing marks on the 	19/02 19/04 19/06 19/07 19/08 19/10 19/12 19/14 19/14	 Still-picture cameras [1, 2006.01, 2021.01] Roll-film cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will (G03B 19/07 takes precedence) [1, 2006.01, 2021.01] having more than one objective [1, 2006.01, 2021.01] with provision for alternative use with plates or cut-films [1, 2006.01, 2021.01] Plate or cut-film cameras (with provision for alternative use with roll film G03B 19/08) [1, 2006.01, 2021.01] Reflex cameras with single objective and a movable reflector or a partly-transmitting mirror [1, 2006.01, 2021.01] with paired lenses, one of which forms image on photographic material and the other forms a corresponding image on a focusing screen [1, 2006.01, 2021.01] Pin-hole cameras [1, 2006.01, 2021.01] Motion-picture cameras (with non-intermittently running film G03B 41/02) [1, 2006.01, 2021.01] Reflex cameras [1, 2006.01, 2021.01]
17/04 17/06 17/08 17/10 17/12 17/14 17/16 17/17 17/18 17/20 17/22 17/24	 Bodies [1, 2006.01, 2021.01] collapsible, foldable or extensible, e.g. book type [1, 2006.01, 2021.01] with exposure meters or other indicators built into body but not connected to other camera members [1, 2006.01, 2021.01] Waterproof bodies or housings [1, 2006.01, 2021.01] Soundproof bodies [1, 2006.01, 2021.01] with means for supporting objectives, supplementary lenses, filters, masks, or turrets [1, 2006.01, 2021.01] interchangeably [1, 2006.01, 2021.01] for containing both motion-picture camera and still-picture camera [1, 2006.01, 2021.01] with reflectors arranged in beam forming the photographic image, e.g. for reducing dimensions of camera [1, 2006.01, 2021.01] Signals indicating condition of a camera member or suitability of light (indicating depth of field G03B 13/30) [1, 2006.01, 2021.01] visible in viewfinder [1, 2006.01, 2021.01] with means for cutting-off film [1, 2006.01, 2021.01] with means for separately producing marks on the film, e.g. title, time of exposure [1, 2006.01, 2021.01] 	19/02 19/04 19/06 19/07 19/08 19/10 19/12 19/14 19/14 19/18 19/20 19/22	 Still-picture cameras [1, 2006.01, 2021.01] Roll-film cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will (G03B 19/07 takes precedence) [1, 2006.01, 2021.01] having more than one objective [1, 2006.01, 2021.01] with provision for alternative use with plates or cut-films [1, 2006.01, 2021.01] Plate or cut-film cameras (with provision for alternative use with roll film G03B 19/08) [1, 2006.01, 2021.01] Reflex cameras with single objective and a movable reflector or a partly-transmitting mirror [1, 2006.01, 2021.01] with paired lenses, one of which forms image on photographic material and the other forms a corresponding image on a focusing screen [1, 2006.01, 2021.01] Pin-hole cameras [1, 2006.01, 2021.01] Motion-picture cameras (with non-intermittently running film G03B 41/02) [1, 2006.01, 2021.01] Reflex cameras [1, 2006.01, 2021.01] Double cameras [1, 2006.01, 2021.01]
17/04 17/06 17/08 17/10 17/12 17/14 17/16 17/17 17/18	 Bodies [1, 2006.01, 2021.01] collapsible, foldable or extensible, e.g. book type [1, 2006.01, 2021.01] with exposure meters or other indicators built into body but not connected to other camera members [1, 2006.01, 2021.01] Waterproof bodies or housings [1, 2006.01, 2021.01] Soundproof bodies [1, 2006.01, 2021.01] with means for supporting objectives, supplementary lenses, filters, masks, or turrets [1, 2006.01, 2021.01] interchangeably [1, 2006.01, 2021.01] for containing both motion-picture camera and still-picture camera [1, 2006.01, 2021.01] with reflectors arranged in beam forming the photographic image, e.g. for reducing dimensions of camera [1, 2006.01, 2021.01] Signals indicating condition of a camera member or suitability of light (indicating depth of field G03B 13/30) [1, 2006.01, 2021.01] visible in viewfinder [1, 2006.01, 2021.01] with means for cutting-off film [1, 2006.01, 2021.01] with means for separately producing marks on the 	19/02 19/04 19/06 19/07 19/08 19/10 19/12 19/14 19/14	 Still-picture cameras [1, 2006.01, 2021.01] Roll-film cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will (G03B 19/07 takes precedence) [1, 2006.01, 2021.01] having more than one objective [1, 2006.01, 2021.01] with provision for alternative use with plates or cut-films [1, 2006.01, 2021.01] Plate or cut-film cameras (with provision for alternative use with roll film G03B 19/08) [1, 2006.01, 2021.01] Reflex cameras with single objective and a movable reflector or a partly-transmitting mirror [1, 2006.01, 2021.01] with paired lenses, one of which forms image on photographic material and the other forms a corresponding image on a focusing screen [1, 2006.01, 2021.01] Pin-hole cameras [1, 2006.01, 2021.01] Reflex cameras [1, 2006.01, 2021.01] Reflex cameras [1, 2006.01, 2021.01] Reflex cameras [1, 2006.01, 2021.01] Double cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g.
17/04 17/06 17/08 17/10 17/12 17/14 17/16 17/17 17/18 17/20 17/22 17/24	 Bodies [1, 2006.01, 2021.01] collapsible, foldable or extensible, e.g. book type [1, 2006.01, 2021.01] with exposure meters or other indicators built into body but not connected to other camera members [1, 2006.01, 2021.01] Waterproof bodies or housings [1, 2006.01, 2021.01] Soundproof bodies [1, 2006.01, 2021.01] with means for supporting objectives, supplementary lenses, filters, masks, or turrets [1, 2006.01, 2021.01] interchangeably [1, 2006.01, 2021.01] for containing both motion-picture camera and still-picture camera [1, 2006.01, 2021.01] with reflectors arranged in beam forming the photographic image, e.g. for reducing dimensions of camera [1, 2006.01, 2021.01] Signals indicating condition of a camera member or suitability of light (indicating depth of field G03B 13/30) [1, 2006.01, 2021.01] visible in viewfinder [1, 2006.01, 2021.01] with means for cutting-off film [1, 2006.01, 2021.01] with means for separately producing marks on the film, e.g. title, time of exposure [1, 2006.01, 2021.01] Holders for containing light-sensitive material and 	19/02 19/04 19/06 19/07 19/08 19/10 19/12 19/14 19/14 19/18 19/20 19/22	 Still-picture cameras [1, 2006.01, 2021.01] Roll-film cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will (G03B 19/07 takes precedence) [1, 2006.01, 2021.01] having more than one objective [1, 2006.01, 2021.01] with provision for alternative use with plates or cut-films [1, 2006.01, 2021.01] Plate or cut-film cameras (with provision for alternative use with roll film G03B 19/08) [1, 2006.01, 2021.01] Reflex cameras with single objective and a movable reflector or a partly-transmitting mirror [1, 2006.01, 2021.01] with paired lenses, one of which forms image on photographic material and the other forms a corresponding image on a focusing screen [1, 2006.01, 2021.01] Pin-hole cameras [1, 2006.01, 2021.01] Reflex cameras [1, 2006.01, 2021.01] Reflex cameras [1, 2006.01, 2021.01] Double cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at
17/04 17/06 17/08 17/10 17/12 17/14 17/16 17/17 17/18 17/20 17/22 17/24	 Bodies [1, 2006.01, 2021.01] collapsible, foldable or extensible, e.g. book type [1, 2006.01, 2021.01] with exposure meters or other indicators built into body but not connected to other camera members [1, 2006.01, 2021.01] Waterproof bodies or housings [1, 2006.01, 2021.01] Soundproof bodies [1, 2006.01, 2021.01] with means for supporting objectives, supplementary lenses, filters, masks, or turrets [1, 2006.01, 2021.01] interchangeably [1, 2006.01, 2021.01] for containing both motion-picture camera and still-picture camera [1, 2006.01, 2021.01] with reflectors arranged in beam forming the photographic image, e.g. for reducing dimensions of camera [1, 2006.01, 2021.01] Signals indicating condition of a camera member or suitability of light (indicating depth of field G03B 13/30) [1, 2006.01, 2021.01] visible in viewfinder [1, 2006.01, 2021.01] with means for cutting-off film [1, 2006.01, 2021.01] with means for separately producing marks on the film, e.g. title, time of exposure [1, 2006.01, 2021.01] Holders for containing light-sensitive material and adapted to be inserted within the camera (holders for X-ray films G03B 42/04) [1, 2, 2006.01, 2021.01] Locating light-sensitive material within 	19/02 19/04 19/06 19/07 19/08 19/10 19/12 19/14 19/14 19/18 19/20 19/22	 Still-picture cameras [1, 2006.01, 2021.01] Roll-film cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will (G03B 19/07 takes precedence) [1, 2006.01, 2021.01] having more than one objective [1, 2006.01, 2021.01] with provision for alternative use with plates or cut-films [1, 2006.01, 2021.01] Plate or cut-film cameras (with provision for alternative use with roll film G03B 19/08) [1, 2006.01, 2021.01] Reflex cameras with single objective and a movable reflector or a partly-transmitting mirror [1, 2006.01, 2021.01] with paired lenses, one of which forms image on photographic material and the other forms a corresponding image on a focusing screen [1, 2006.01, 2021.01] Pin-hole cameras [1, 2006.01, 2021.01] Reflex cameras [1, 2006.01, 2021.01] Reflex cameras [1, 2006.01, 2021.01] Reflex cameras [1, 2006.01, 2021.01] Double cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g.
17/04 17/06 17/08 17/10 17/12 17/14 17/16 17/17 17/18 17/20 17/22 17/24 17/26 17/28	 Bodies [1, 2006.01, 2021.01] collapsible, foldable or extensible, e.g. book type [1, 2006.01, 2021.01] with exposure meters or other indicators built into body but not connected to other camera members [1, 2006.01, 2021.01] Waterproof bodies or housings [1, 2006.01, 2021.01] Soundproof bodies [1, 2006.01, 2021.01] with means for supporting objectives, supplementary lenses, filters, masks, or turrets [1, 2006.01, 2021.01] interchangeably [1, 2006.01, 2021.01] for containing both motion-picture camera and still-picture camera [1, 2006.01, 2021.01] with reflectors arranged in beam forming the photographic image, e.g. for reducing dimensions of camera [1, 2006.01, 2021.01] Signals indicating condition of a camera member or suitability of light (indicating depth of field G03B 13/30) [1, 2006.01, 2021.01] with means for cutting-off film [1, 2006.01, 2021.01] with means for separately producing marks on the film, e.g. title, time of exposure [1, 2006.01, 2021.01] Holders for containing light-sensitive material and adapted to be inserted within the camera (holders for X-ray films G03B 42/04) [1, 2, 2006.01, 2021.01] Locating light-sensitive material within camera [1, 2006.01, 2021.01] 	19/02 19/04 19/06 19/07 19/08 19/10 19/12 19/14 19/16 19/18 19/20 19/22 19/24	 Still-picture cameras [1, 2006.01, 2021.01] Roll-film cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will (G03B 19/07 takes precedence) [1, 2006.01, 2021.01] having more than one objective [1, 2006.01, 2021.01] with provision for alternative use with plates or cut-films [1, 2006.01, 2021.01] Plate or cut-film cameras (with provision for alternative use with roll film G03B 19/08) [1, 2006.01, 2021.01] Reflex cameras with single objective and a movable reflector or a partly-transmitting mirror [1, 2006.01, 2021.01] with paired lenses, one of which forms image on photographic material and the other forms a corresponding image on a focusing screen [1, 2006.01, 2021.01] Pin-hole cameras [1, 2006.01, 2021.01] Reflex cameras [1, 2006.01, 2021.01] Reflex cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will [1, 2006.01, 2021.01]
17/04 17/06 17/08 17/10 17/12 17/14 17/16 17/17 17/18 17/20 17/22 17/24 17/26	 Bodies [1, 2006.01, 2021.01] collapsible, foldable or extensible, e.g. book type [1, 2006.01, 2021.01] with exposure meters or other indicators built into body but not connected to other camera members [1, 2006.01, 2021.01] Waterproof bodies or housings [1, 2006.01, 2021.01] Soundproof bodies [1, 2006.01, 2021.01] with means for supporting objectives, supplementary lenses, filters, masks, or turrets [1, 2006.01, 2021.01] interchangeably [1, 2006.01, 2021.01] for containing both motion-picture camera and still-picture camera [1, 2006.01, 2021.01] with reflectors arranged in beam forming the photographic image, e.g. for reducing dimensions of camera [1, 2006.01, 2021.01] Signals indicating condition of a camera member or suitability of light (indicating depth of field G03B 13/30) [1, 2006.01, 2021.01] visible in viewfinder [1, 2006.01, 2021.01] with means for cutting-off film [1, 2006.01, 2021.01] with means for separately producing marks on the film, e.g. title, time of exposure [1, 2006.01, 2021.01] Holders for containing light-sensitive material and adapted to be inserted within the camera (holders for X-ray films G03B 42/04) [1, 2, 2006.01, 2021.01] Locating light-sensitive material within 	19/02 19/04 19/06 19/07 19/08 19/10 19/12 19/14 19/16 19/18 19/20 19/22 19/24	 Still-picture cameras [1, 2006.01, 2021.01] Roll-film cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will (G03B 19/07 takes precedence) [1, 2006.01, 2021.01] having more than one objective [1, 2006.01, 2021.01] with provision for alternative use with plates or cut-films [1, 2006.01, 2021.01] Plate or cut-film cameras (with provision for alternative use with roll film G03B 19/08) [1, 2006.01, 2021.01] Reflex cameras with single objective and a movable reflector or a partly-transmitting mirror [1, 2006.01, 2021.01] with paired lenses, one of which forms image on photographic material and the other forms a corresponding image on a focusing screen [1, 2006.01, 2021.01] Pin-hole cameras [1, 2006.01, 2021.01] Reflex cameras [1, 2006.01, 2021.01] Reflex cameras [1, 2006.01, 2021.01] adapted to be loaded with more than one film, e.g. with exposure of one or the other at will [1, 2006.01, 2021.01] with fade-in and fade-out

17/32 • Locating plates or cut films **[1, 2006.01, 2021.01]**

21/00	Projectors or projection-type viewers; Accessories	21/62	• • • Translucent screens [1, 2006.01, 2014.01]
21,00	therefor (devices for changing pictures	21/625	• • • • Lenticular translucent screens [2014.01]
	G03B 23/00) [1, 2006.01]	21/64	Means for mounting individual pictures to be
21/02	 Multiple-film apparatus [1, 2006.01] 		projected, e.g. frame for transparency [1, 2006.01]
21/04	 Picture "juke-boxes" [1, 2006.01] 	22/22	
21/06	 affording only episcopic projection [1, 2006.01] 	23/00	Devices for changing pictures in viewing apparatus
21/08	 affording epidiascopic projection [1, 2006.01] 		or projectors [1, 2006.01]
21/10	Projectors with built-in or built-on Projectors with built-in or built-on		Note(s)
21/11	screen [1, 2006.01]		In this group, the following term is used with the
21/11 21/12	• for microfilm reading [1, 2006.01]• adapted for projection of either still pictures or		meaning indicated:
21/12	motion pictures (prolonged exhibition of single frame G03B 21/38) [1, 2006.01]		 "picture" means any flat representation, whether transparent or not, e.g. produced by photography, writing, or printing.
21/13	 Projectors for producing special effects at the edges of picture, e.g. blurring [1, 2006.01] 	23/02	• in which pictures are removed from, and returned to, magazines; Magazines therefor [1, 2006.01]
21/132	 Overhead projectors, i.e. capable of projecting hand- 	23/04	• • with linear movement [1, 2006.01]
	writing or drawing during action (epidiascopic	23/06	• • with rotary movement [1, 2006.01]
21/124	projectors G03B 21/08) [1, 2006.01]	23/08	 in which pictures are attached to a movable
21/134	 Projectors combined with typing apparatus or with printing apparatus [1, 2006.01] 		carrier [1, 2006.01]
21/14	• Details [1, 2006.01]	23/10	 drum or disc carrier [1, 2006.01]
21/16	• Cooling; Preventing overheating [1, 2006.01]	23/12	 linear strip carrier [1, 2006.01]
21/18	• • Fire preventing or extinguishing [1, 2006.01]	23/14	Carriers operable to move pictures into, and out of,
21/20	• • Lamp housings [1, 2006.01]		the projection or viewing position and carrying one or two pictures only in a removable manner
21/22	• • Soundproof bodies [1, 2006.01]		(G03B 23/18 takes precedence) [1, 4, 2006.01]
21/26	 Projecting separately subsidiary matter simultaneously with main image [1, 2006.01] 	23/18	• with fade-in and fade-out effects [4, 2006.01]
21/28	• • Reflectors in projection beam [1, 2006.01]	25/00	Viewers, other than projection viewers, giving
21/30	 adapted to collapse or fold, e.g. for portability [1, 2006.01] 		motion-picture effects by persistence of vision, e.g. zoetrope [1, 2006.01]
21/32	Details specially adapted for motion-picture	25/02	• with interposed lenticular or line screen [1, 2006.01]
	projection (with film moving continuously through	27/00	Photographic printing apparatus [1, 2006 01]
	the gate G03B 41/02) [1, 2006.01]	27/00 27/02	 Photographic printing apparatus [1, 2006.01] Exposure apparatus for contact printing [1, 2006.01]
21/34	• • • Change-over arrangements [1, 2006.01]	27/02	Copying apparatus without a relative movement
21/36	• • • Fades, dissolves, or wipes [1, 2006.01]	27704	between the original and the light source during
21/38	• • Prolonged exhibition of single frame [1, 2006.01]		exposure, e.g. printing frame or printing box [1, 2006.01]
21/40	 • Eliminating or reducing effect of flicker [1, 2006.01] 	27/06	 for automatic repeated copying of the same
21/42	Preventing damage to film due to abnormal	0=100	original [1, 2006.01]
	operation of projector [1, 2006.01]	27/08	• • • for automatic copying of several originals one after the other, e.g. for copying cinematograph
21/43	• • • Driving mechanisms [1, 2006.01]		film [1, 2006.01]
21/44	• • • Mechanisms transmitting motion to film-	27/10	Copying apparatus with a relative movement
	strip feed; Mechanical linking of shutter and		between the original and the light source during
21/46	intermittent feed [1, 2006.01] • • • • affording adjustment for		exposure [1, 2006.01]
	framing [1, 2006.01]	27/12	 • for automatic repeated copying of the same original [1, 2006.01]
21/48	• • • • for altering frame speed; for regulating constancy of film speed [1, 2006.01]	27/14	• • Details [1, 2006.01]
21/50	Control devices operated by the film strip	27/16	• • • Illumination arrangements, e.g. positioning of
21/30	during the run [1, 2006.01]		lamps, positioning of reflectors (controlling the
21/52	• • • by prepared film [1, 2006.01]	27/10	exposure G03B 27/72) [1, 2006.01]
21/53	Means for automatic focusing, e.g. to compensate	27/18	 • Maintaining or producing contact pressure between original and light-sensitive
	thermal effects [5, 2006.01]		material [1, 2006.01]
21/54	• Accessories [1, 2006.01]	27/20	• • • by using a vacuum or fluid
21/56	• • Projection screens [1, 2006.01]		pressure [1, 2006.01]
21/58	• • collapsible, e.g. foldable; of variable area [1, 2006.01, 2014.01]	27/22	• • • by stretching over a curved surface [1, 2006.01]
21/585	• • • • Inflatable screens [2014.01]	27/24	• • Separating the original from the
21/60	 characterised by the nature of the surface [1, 2006.01, 2014.01] 	27/26	print [1, 2006.01] • • • Cooling [1, 2006.01]
21/602	• • • Lenticular screens (G03B 21/625 takes	27/28	• • • • Cooling [1, 2006.01] • • • Edge-masking devices [1, 2006.01]
	precedence) [2014.01]	27/20	• • adapted to be combined with processing
21/604	• • • Polarised screens [2014.01]	2.,50	apparatus [1, 2006.01]
21/606	• • • for relief projection [2014.01]	27/32	Projection printing apparatus, e.g. enlarger, copying
21/608	• • • • Fluid screens [2014.01]		camera [1, 2006.01]

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27/34	 Means for automatic focusing therefor [1, 4, 2006.01] 	29/00	Combinations of cameras, projectors or photographic printing apparatus with non-
27/36	• • • by mechanical connections, e.g. by cam, by linkage [1, 2006.01]		photographic non-optical apparatus, e.g. clocks or weapons; Cameras having the shape of other objects
27/38	• • • embodying screws with non-uniform pitch [1, 2006.01]		(combinations with flash apparatus G03B 15/03) [1, 2006.01, 2021.01]
27/40	• • • adapted for use with lenses of different focal length [1, 2006.01]	30/00	Camera modules comprising integrated lens units
27/42	 for automatic sequential copying of the same original (G03B 27/34, G03B 27/53 take precedence) [1, 4, 2006.01] 		and imaging units, specially adapted for being embedded in other devices, e.g. mobile phones or vehicles [2021.01]
27/44	 for multiple copying of the same original at the 		Note(s) [2021.01]
	same time (G03B 27/34, G03B 27/53 take		1. When classification is made in this main group,
27/46	precedence) [1, 4, 2006.01]for automatic sequential copying of different		further classification should be made in other
2//40	originals, e.g. enlargers, roll film printers		groups of subclass G03B or in group G02B 7/00 according to the functional aspects of the camera.
	(G03B 27/34, G03B 27/50, G03B 27/53 take		 The classification symbol of this group is not
	precedence) [1, 4, 2006.01]		listed first when assigned to patent documents.
27/465	5 • • • at different positions of the same strip, e.g. microfilm [4, 2006.01]		
27/47	• • • at different positions of the same sheet, e.g.	Special to	<u>echniques</u>
27/475	microfiche [4, 2006.01] 5 • • • copying cinematographic film (G03B 27/48	31/00	Associated working of cameras or projectors with
2//4/3	takes precedence) [4, 2006.01]		sound-recording or sound-reproducing means [1, 2006.01, 2021.01]
27/48	 • with original in the form of a film strip moving continuously and compensation for consequent 	31/02	• in which sound track is on a moving-picture
	image movement [1, 2006.01]		film [1, 2006.01, 2021.01]
27/50	• with slit or like diaphragm moving over original	31/04	 in which sound track is not on, but is synchronised with, a moving-picture film [1, 2006.01, 2021.01]
	for progressive exposure (G03B 27/34 takes precedence) [1, 4, 2006.01]	31/06	• in which sound track is associated with successively-
27/52	 Details [1, 2006.01] 		shown still pictures [1, 2006.01, 2021.01]
27/53	• • • Automatic registration or positioning of	31/08	• with fade-in and fade-out
	originals with respect to each other or the		effects [4, 2006.01, 2021.01]
27/54	photosensitive layer [4, 2006.01]	33/00	Colour photography, other than mere exposure or
27/54	 Lamp housings; Illuminating means [1, 2006.01] 		projection of a colour film (printing apparatus
27/56	• • Mounting enlarger head on		G03B 27/00; stereoscopic colour photography G03B 35/00) [1, 2006.01]
	column [1, 2006.01]	33/02	 by two-colour separation records, e.g. red-aspect and
27/58	• • • Baseboards, masking frames, or other holders	33/02	white complete records; using Land
	for the sensitive material (G03B 27/53 takes		effect [1, 2006.01]
27/60	precedence) [1, 4, 2006.01] • • • • using a vacuum or fluid	33/04	• by four or more separation records [1, 2006.01]
27700	pressure [1, 2006.01]	33/06	• by additive-colour projection apparatus [1, 2006.01]
27/62	Holders for the original (G03B 27/53 takes)	33/08	• Sequential recording or projection (G03B 33/02,
	precedence) [1, 4, 2006.01]		G03B 33/04, G03B 33/06 take precedence) [1, 2006.01]
27/64	• • • using a vacuum or fluid	33/10	• Simultaneous recording or projection (G03B 33/02,
27/66	pressure [1, 2006.01]		G03B 33/04, G03B 33/06 take
27/66	 specially adapted for holding half-tone screens [1, 2006.01] 		precedence) [1, 2006.01]
27/68	Introducing or correcting distortion, e.g. in	33/12	 using beam-splitting or beam-combining systems, e.g. dichroic mirrors [1, 2006.01]
	connection with oblique projection [1, 2006.01]	33/14	using lenticular screens (integral with film
27/70	• • • Reflectors in printing beam [1, 2006.01]	33/14	G03C) [1, 2006.01]
27/72	Controlling or varying light intensity, spectral	33/16	• • using colour-pattern screens (integral with film
	composition, or exposure time in photographic printing apparatus [1, 2006.01]		G03C) [1, 2006.01]
27/73	 Controlling exposure by variation of spectral 	35/00	Stereoscopic photography [1, 2006.01, 2021.01]
	composition, e.g. multicolor printers [3, 2006.01]	35/02	 by sequential recording [1, 2006.01, 2021.01]
27/74	• • Positioning exposure meters in the	35/04	• • with movement of beam-selecting members in a
27/80	apparatus [1, 2006.01]in dependence upon automatic analysis of the		system defining two or more viewpoints [1, 2006.01, 2021.01]
_//00	original (G03B 27/73 takes	35/06	 with axial movement of lens or gate between
	precedence) [3, 2006.01]	25, 00	exposures [1, 2006.01, 2021.01]
		35/08	• by simultaneous recording [1, 2006.01, 2021.01]
		35/10	having single camera with stereoscopic-base- defining system [1, 2006 01, 2021 01]
			defining system [1, 2006.01, 2021.01]

05/40			
35/12	 involving recording of different viewpoint images in different colours on a colour film [1, 2006.01, 2021.01] 	39/06	 using light-guides for transferring image frame or elements thereof into different array, e.g. into a line [1, 2006.01, 2021.01]
35/14	 Printing apparatus specially adapted for conversion between different types of record (G03B 42/08 takes precedence) [1, 4, 2006.01, 2021.01] 	41/00	Special photographic techniques not covered by groups G03B 31/00-G03B 39/00; Apparatus therefor [1, 2, 2006.01, 2021.01]
35/16	 by sequential viewing [1, 2006.01, 2021.01] 	44 /00	
35/18	 by simultaneous viewing [1, 2006.01, 2021.01] 	41/02	 using non-intermittently-running film [1, 2006.01, 2021.01]
35/20	 using two or more 	44.40.4	
	projectors [1, 2006.01, 2021.01]	41/04	• • with optical compensator [1, 2006.01, 2021.01]
35/22	 using single projector with stereoscopic-base- defining system [1, 2006.01, 2021.01] 	41/06	 • • with rotating reflecting member [1, 2006.01, 2021.01]
35/24	using apertured or refractive resolving means on screen or between screen and	41/08	 • with rotating transmitting member [1, 2006.01, 2021.01]
	eye [1, 2006.01, 2021.01]	41/10	 • • with oscillating reflecting
35/26	 using polarised or coloured light for separating 		member [1, 2006.01, 2021.01]
33/20	different viewpoint images [1, 2006.01, 2021.01]	41/12	• • • with oscillating transmitting member [1, 2006.01, 2021.01]
37/00	Panoramic or wide-screen photography; Photographing extended surfaces, e.g. for surveying; Photographing internal surfaces, e.g. of	41/14	 Overcoming image movement by brief flashes of light [1, 2006.01, 2021.01]
	pipe [1, 2006.01, 2021.01]	42/00	Obtaining records using waves other than optical
37/02	 with scanning movement of lens or camera [1, 2006.01, 2021.01] 		waves; Visualisation of such records by using optical
	Camera 11, 2000.01, 2021.011		means [4, 2006.01, 2021.01]
37/04		42/02	• using X-rays [4, 2006.01, 2021.01]
37/04	 with cameras or projectors providing touching or 		• using X-rays [4, 2006.01, 2021.01]
	 with cameras or projectors providing touching or overlapping fields of view [1, 2006.01, 2021.01] 	42/04	 using X-rays [4, 2006.01, 2021.01] Holders for X-ray films [4, 2006.01, 2021.01]
37/04 37/06	 with cameras or projectors providing touching or overlapping fields of view [1, 2006.01, 2021.01] involving anamorphosis (G03B 37/02, G03B 37/04 		 using X-rays [4, 2006.01, 2021.01] Holders for X-ray films [4, 2006.01, 2021.01] using ultrasonic, sonic or infrasonic
	 with cameras or projectors providing touching or overlapping fields of view [1, 2006.01, 2021.01] 	42/04 42/06	 using X-rays [4, 2006.01, 2021.01] Holders for X-ray films [4, 2006.01, 2021.01] using ultrasonic, sonic or infrasonic waves [4, 2006.01, 2021.01]
	 with cameras or projectors providing touching or overlapping fields of view [1, 2006.01, 2021.01] involving anamorphosis (G03B 37/02, G03B 37/04 	42/04	 using X-rays [4, 2006.01, 2021.01] Holders for X-ray films [4, 2006.01, 2021.01] using ultrasonic, sonic or infrasonic waves [4, 2006.01, 2021.01] Visualisation of records by optical
37/06	 with cameras or projectors providing touching or overlapping fields of view [1, 2006.01, 2021.01] involving anamorphosis (G03B 37/02, G03B 37/04 take precedence) [1, 2006.01, 2021.01] High-speed photography [1, 2006.01, 2021.01] 	42/04 42/06	 using X-rays [4, 2006.01, 2021.01] Holders for X-ray films [4, 2006.01, 2021.01] using ultrasonic, sonic or infrasonic waves [4, 2006.01, 2021.01]
37/06 39/00	 with cameras or projectors providing touching or overlapping fields of view [1, 2006.01, 2021.01] involving anamorphosis (G03B 37/02, G03B 37/04 take precedence) [1, 2006.01, 2021.01] High-speed photography [1, 2006.01, 2021.01] using stationary plate or film (G03B 39/06 takes 	42/04 42/06	 using X-rays [4, 2006.01, 2021.01] Holders for X-ray films [4, 2006.01, 2021.01] using ultrasonic, sonic or infrasonic waves [4, 2006.01, 2021.01] Visualisation of records by optical
37/06 39/00 39/02	 with cameras or projectors providing touching or overlapping fields of view [1, 2006.01, 2021.01] involving anamorphosis (G03B 37/02, G03B 37/04 take precedence) [1, 2006.01, 2021.01] High-speed photography [1, 2006.01, 2021.01] using stationary plate or film (G03B 39/06 takes precedence) [1, 2006.01, 2021.01] 	42/04 42/06	 using X-rays [4, 2006.01, 2021.01] Holders for X-ray films [4, 2006.01, 2021.01] using ultrasonic, sonic or infrasonic waves [4, 2006.01, 2021.01] Visualisation of records by optical
37/06 39/00	 with cameras or projectors providing touching or overlapping fields of view [1, 2006.01, 2021.01] involving anamorphosis (G03B 37/02, G03B 37/04 take precedence) [1, 2006.01, 2021.01] High-speed photography [1, 2006.01, 2021.01] using stationary plate or film (G03B 39/06 takes 	42/04 42/06	 using X-rays [4, 2006.01, 2021.01] Holders for X-ray films [4, 2006.01, 2021.01] using ultrasonic, sonic or infrasonic waves [4, 2006.01, 2021.01] Visualisation of records by optical means [4, 2006.01, 2021.01] Testing correct operation of photographic apparatus
37/06 39/00 39/02	 with cameras or projectors providing touching or overlapping fields of view [1, 2006.01, 2021.01] involving anamorphosis (G03B 37/02, G03B 37/04 take precedence) [1, 2006.01, 2021.01] High-speed photography [1, 2006.01, 2021.01] using stationary plate or film (G03B 39/06 takes precedence) [1, 2006.01, 2021.01] using moving plate or film (G03B 39/06 takes 	42/04 42/06 42/08	 using X-rays [4, 2006.01, 2021.01] Holders for X-ray films [4, 2006.01, 2021.01] using ultrasonic, sonic or infrasonic waves [4, 2006.01, 2021.01] Visualisation of records by optical means [4, 2006.01, 2021.01]
37/06 39/00 39/02	 with cameras or projectors providing touching or overlapping fields of view [1, 2006.01, 2021.01] involving anamorphosis (G03B 37/02, G03B 37/04 take precedence) [1, 2006.01, 2021.01] High-speed photography [1, 2006.01, 2021.01] using stationary plate or film (G03B 39/06 takes precedence) [1, 2006.01, 2021.01] using moving plate or film (G03B 39/06 takes 	42/04 42/06 42/08	 using X-rays [4, 2006.01, 2021.01] Holders for X-ray films [4, 2006.01, 2021.01] using ultrasonic, sonic or infrasonic waves [4, 2006.01, 2021.01] Visualisation of records by optical means [4, 2006.01, 2021.01] Testing correct operation of photographic apparatus

PHOTOSENSITIVE MATERIALS FOR PHOTOGRAPHIC PURPOSES; PHOTOGRAPHIC PROCESSES, e.g. CINE, X-RAY, COLOUR OR 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)

Note(s) [5]

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.

Subclass index

General	5/00, 11/00
For colour photography	7/00
For diffusion transfer processes	8/00
For stereo-photography and the like	9/00
PHOTOSENSITIVE COMPOSITIONS AND MATERIALS	1/00
PACKAGING	3/00

- **1/00 Photosensitive materials** (photosensitive materials for multicolour processes G03C 7/00; for diffusion transfer processes G03C 8/00) **[1, 5, 2006.01]**
- Silver halide emulsions; Preparation thereof; Physical treatment thereof; Incorporation of additives therein (catalytic amounts of silver halide in dry silver systems G03C 1/498) [5, 2006.01]
- 1/015 Apparatus or processes for the preparation of emulsions (coating, drying G03C 1/74) **[5, 2006.01]**
- 1/025 Physical treatment of emulsions, e.g. by ultrasonics, refrigeration, pressure (coating, drying G03C 1/74) **[5, 2006.01]**

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1/035	 characterised by the crystal form or composition, e.g. mixed grain [5, 2006.01] 	1/494 • Silver salt compositions other than silver halide emulsions; Photothermographic systems [5, 2006.01]
1/04	 with macromolecular additives; with layer-forming substances [1, 5, 2006.01] 	1/496 • Binder-free compositions, e.g. evaporated [5, 2006.01]
1/043	Polyalkylene oxides; Polyalkylene sulfides; Polyalkylene selenides; Polyalkylene	1/498 • Photothermographic systems, e.g. dry silver [5, 2006.01]
	tellurides [5, 2006.01]	1/50 • Compositions containing noble metal salts other than
1/047	 • Proteins, e.g. gelatine derivatives; Hydrolysis or extraction products of proteins [5, 2006.01] 	silver salts, as photosensitive substances [1, 5, 2006.01]
1/053	 Polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds, e.g. vinyl polymers [5, 2006.01] 	 Compositions containing diazo compounds as photosensitive substances (G03C 1/64 takes precedence) [1, 5, 2006.01]
1/06	 with non-macromolecular additives (G03C 1/04 takes precedence) [1, 5, 2006.01] 	 1/54 • Diazonium salts or diazo anhydrides [1, 2006.01] 1/56 • Diazo sulfonates [1, 2006.01]
1/07	• • Substances influencing grain growth during	1/58 • • Coupling substances therefor [1, 5, 2006.01]
	silver salt formation [5, 2006.01]	1/60 • • with macromolecular additives [1, 5, 2006.01]
1/08	• • • Sensitivity-increasing	1/61 • • with non-macromolecular additives [5, 2006.01]
1/09	substances [1, 5, 2006.01] • • • Noble metals or mercury; Salts or	1/62 • • • Metal compounds reducible to
1/09	compounds thereof; Sulfur, selenium or	metal [1, 2006.01]
	tellurium, or compounds thereof, e.g. for	1/64 • Compositions containing iron compounds as
	chemical sensitising (G03C 1/34, G03C 1/35	photosensitive substances [1, 5, 2006.01]
	take precedence) [5, 2006.01]	 1/66 • Compositions containing chromates as photosensitive substances [1, 5, 2006.01]
1/10	• • • • Organic substances [1, 2006.01]	1/67 • Compositions containing cobalt compounds as
1/12	• • • • Methine or polymethine dyes [1, 2006.01]	photosensitive substances [5, 2006.01]
1/14	• • • • • with an odd number of CH groups [1, 2006.01]	1/675 • Compositions containing polyhalogenated compounds as photosensitive substances [5, 2006.01]
1/16	• • • • • • with one CH group [1, 2006.01]	1/685 • Compositions containing spiro-condensed pyran
1/18	• • • • • with three CH groups [1, 2006.01]	compounds or derivatives thereof, as photosensitive
1/20	• • • • • with more than three CH	substances [5, 2006.01]
	groups [1, 2006.01]	1/695 • Compositions containing azides as photosensitive
1/22	• • • • • with an even number of CH	substances [5, 2006.01]
	groups [1, 2006.01]	1/705 • Compositions containing chalcogenides, metals or
1/24	• • • • • Styryl dyes [1, 2006.01]	alloys thereof, as photosensitive substances, e.g.
1/26	• • • • • Polymethine chain forming part of a heterocyclic ring [1, 2006.01]	photodope systems [5, 2006.01] 1/72 • Photosensitive compositions not covered by groups
1/28	• • • together with supersensitising substances [1, 2006.01]	G03C 1/005-G03C 1/705 [1, 5, 2006.01]
1/29	• • • • the supersensitising mixture being solely	1/725 • • containing inorganic compounds [5, 2006.01]
1/29	composed of dyes [5, 2006.01]	1/73 • • containing organic compounds [5, 2006.01]
1/295	• • • Development accelerators [5, 2006.01]	1/735 · · · Organo-metallic compounds [5, 2006.01]
1/30	• • • Hardeners [1, 2006.01]	 1/74 • Applying photosensitive compositions to the base; Drying processes therefor (G03C 1/496 takes
1/31	• • • Plasticisers [2, 2006.01]	precedence) [1, 2, 5, 2006.01]
1/32	• • • Matting agents [1, 2006.01]	1/76 • Photosensitive materials characterised by the base or
1/33	• • • Spot-preventing agents [2, 2006.01]	auxiliary layers [1, 5, 2006.01]
1/34	• • Fog-inhibitors; Stabilisers; Agents inhibiting	1/765 • characterised by the shape of the base, e.g. arrangement of perforations, jags [5, 2006.01]
1/35	latent image regression [1, 5, 2006.01]Antiplumming agents, i.e. antibronzing agents;	1/77 • the base being of metal [5, 2006.01]
1/33	Toners [2, 5, 2006.01]	1/775 • • the base being of paper [5, 2006.01]
1/36	Desensitisers (direct positive emulsions	1/785 • • • translucent [5, 2006.01]
1750	G03C 1/485) [1, 5, 2006.01]	1/79 • • • Macromolecular coatings or impregnations
1/37	• • • Antiseptic agents [2, 2006.01]	therefor, e.g. varnishes [5, 2006.01]
1/38	Dispersants; Agents facilitating	1/795 • • the base being formed of macromolecular
	spreading [1, 5, 2006.01]	substances (G03C 1/775 takes
1/40	• • • Dyestuffs not covered by groups G03C 1/08-	precedence) [5, 2006.01]
	G03C 1/38 or G03C 1/42 [1, 5, 2006.01]	1/805 • • characterised by stripping layers or stripping
1/42	• • • Developers or their precursors [1, 5, 2006.01]	means [5, 2006.01]
1/43	• • • Processing agents or their precursors, not	1/81 • • characterised by anti-coiling means [5, 2006.01]
	covered by groups G03C 1/07-G03C 1/42 [5, 2006.01]	1/815 • • characterised by means for filtering or absorbing ultraviolet light, e.g. optical bleaching agents (for
1/46	• having more than one photosensitive	photoprinting G03C 5/10; for intensifying X-ray images G03C 5/17) [5, 2006.01]
1 / 405	layer [1, 2006.01]	1/825 • characterised by antireflecting means or visible-
1/485	• Direct positive emulsions [2, 5, 2006.01]	light filtering means, e.g. anti-
1/49	 Print-out and photodevelopable emulsions [2, 5, 2006.01] 	halation [5, 2006.01]
1/492	 Photosoluble emulsions [5, 2006.01] 	1/83 • • • Organic dyestuffs therefor [5, 2006.01]
1/434	1 11010301001C CHIUISIOHS [J, 2000.01]	<u> </u>

1/835	• • • Macromolecular substances therefor, e.g. mordants [5, 2006.01]
1/85	characterised by antistatic additives or coatings [5, 2006.01]
1/89	Macromolecular substances therefor [5, 2006.01]
1/91	characterised by subbing layers or subbing means [5, 2006.01]
1/93	Macromolecular substances therefor [5, 2006.01]
1/95	• • rendered opaque or writable, e.g. with inert particulate additives (G03C 1/775 takes precedence) [5, 2006.01]
3/00 3/02	Packages of films for inserting into cameras, e.g. roll-films or film-packs; Wrapping materials for light-sensitive plates, films, or papers, e.g. materials characterised by the use of special dyes, printing inks or adhesives [1, 2006.01] • Photographic roll-films with paper strips [1, 2006.01]
5/00	Photographic processes or agents therefor; Regeneration of such processing agents (multicolour processes G03C 7/00; diffusion transfer processes G03C 8/00; stereo-photographic processes G03C 9/00) [1, 4, 5, 2006.01]
5/02	 Sensitometric processes, e.g. determining sensitivity, colour sensitivity, gradation, graininess, density; Making sensitometric wedges [1, 2006.01]
5/04	• Photo-taking processes [1, 2006.01]
5/06	• • Travelling-mask processes [1, 2006.01]
5/08	 Photoprinting (G03C 5/18 takes precedence); Processes or means for preventing photoprinting [1, 3, 5, 2006.01]
5/10	 Reflex-printing; Photoprinting using fluorescent or phosphorescent means [1, 5, 2006.01]
5/12	 Cinematographic processes of taking pictures or printing [1, 2006.01]
5/14	• • combined with sound-recording [1, 2006.01]
5/16	 X-ray, infrared, or ultraviolet ray processes [1, 2006.01]
5/17	 using screens to intensify X-ray images [2, 4, 2006.01]
5/18	 Diazo-type processes, e.g. thermal development, or agents therefor [1, 3, 5, 2006.01]
5/20	• • Reflex-printing [1, 2006.01]
5/22	 Direct chromate processes, i.e. without preceding silver picture, or agents therefor [1, 5, 2006.01]
5/26	 Processes using silver-salt-containing photosensitive materials or agents therefor (physical development G03C 5/58) [1, 5, 2006.01]
5/28 5/29	 Cinematographic-film processes [1, 5, 2006.01] Development processes or agents therefor (G03C 5/38, G03C 5/50 take precedence) [5, 2006.01]
5/30	• • • Developers [1, 2006.01]
5/305	• • • Additives other than developers [5, 2006.01]
5/31	• • • Regeneration; Replenishers [5, 2006.01]
5/315	• • • Tanning development [5, 2006.01]
5/32	• Latensification; Desensitising [1, 5, 2006.01]
5/38	• • Fixing; Developing-fixing; Hardening-fixing (bleach-fixing G03C 5/44) [1, 5, 2006.01]
5/39	• • Stabilising, i.e. fixing without washing out [2, 5, 2006.01]

Regeneration of photographic processing agents

other than developers; Replenishers

therefor [4, 5, 2006.01]

5/395

- Chemically transforming developed images 5/40 (G03C 5/50 takes precedence) [1, 5, 2006.01] 5/42 Reducing; Intensifying [1, 5, 2006.01] 5/44 Bleaching; Bleach-fixing [1, 5, 2006.01] 5/46 Toning [1, 5, 2006.01] Mordanting [1, 5, 2006.01] 5/48 5/50 Reversal development; Contact processes (G03C 5/315, G03C 8/00 take precedence) [1, 5, 2006.01] Processes using photosensitive compositions covered 5/56 by groups G03C 1/64-G03C 1/72 or agents therefor
 - (G03C 5/58 takes precedence) [1, 5, 2006.01]
 Processes for obtaining metallic images by vapour deposition or physical development [5, 2006.01]
 - Processes for obtaining vesicular images [5, 2006.01]
 - 7/00 Multicolour photographic processes or agents therefor; Regeneration of such processing agents; Photosensitive materials for multicolour processes (diffusion transfer processes G03C 8/00) [1, 4, 5, 2006.01]
 - 7/02 Direct bleach-out processes; Materials therefor; Preparing or processing such materials [1, 5, 2006.01]
 - Additive processes using colour screens; Materials therefor; Preparing or processing such materials [1, 5, 2006.01]
 - 7/06 • Manufacture of colour screens [1, 2006.01]
 - 7/08 • from diversely-coloured grains irregularly distributed [1, 2006.01]
 - 7/10 • with regular areas of colour, e.g. bands, lines, dots [1, 2006.01]
 - 7/12 • by photo-exposure **[1, 2006.01]**
 - 7/14 Additive processes using lenticular screens; Materials therefor; Preparing or processing such materials [1, 5, 2006.01]
 - Processes for the correction of the colour image in subtractive colour photography (using coloured colour-couplers G03C 7/333) [1, 5, 2006.01]
 - Subtractive colour processes using differently sensitised films, each coated on its own base, e.g. bipacks, tripacks [1, 5, 2006.01]
 - Subtractive cinematographic processes; Materials therefor; Preparing or processing such materials [1, 5, 2006.01]
 - 7/24 • combined with sound-recording **[1, 2006.01]**
 - 7/25 Dye-imbibition processes; Materials therefor; Preparing or processing such materials [5, 2006.01]
 - 7/26 Silver halide emulsions for subtractive colour processes (G03C 7/28-G03C 7/30 take precedence) [1, 5, 2006.01]
 - 7/28 Silver dye bleach processes; Materials therefor; Preparing or processing such materials [1, 5, 2006.01]
 - 7/29 • Azo dyes therefor **[5, 2006.01]**
 - 7/30 Colour processes using colour-coupling substances;
 Materials therefor; Preparing or processing such materials [1, 5, 2006.01]
 - 7/305
 Substances liberating photographically active agents, e.g. development-inhibiting releasing couplers (G03C 7/388 takes precedence) [5, 2006.01]
 - 7/32 • Colour-coupling substances (G03C 7/305, G03C 7/388 take precedence) [1, 5, 2006.01]
 - 7/327 • Macromolecular coupling substances [5, 2006.01]

7/333 7/34	 Coloured coupling substances, e.g. for the correction of the coloured image [5, 2006.01] Couplers containing phenols (G03C 7/327, 	8/30	 Additive processes using colour screens; Materials therefor; Preparing or processing such materials [5, 2006.01]
	G03C 7/333 take precedence) [1, 5, 2006.01]	8/32	• Development processes or agents therefor (G03C 8/18 takes precedence) [5, 2006.01]
7/36	 Couplers containing compounds with active methylene groups (G03C 7/327, G03C 7/333 take precedence) [1, 5, 2006.01] 	8/34	 Containers for the agents (G03C 8/48, G03B 17/50 take precedence) [5, 2006.01]
7/38	• • • in rings [1, 5, 2006.01]	8/36	• • Developers [5, 2006.01]
7/384	• • • • in pyrazolone rings [5, 2006.01]	8/38	containing viscosity increasing
7/388	Processes for the incorporation in the emulsion of	0,50	substances [5, 2006.01]
77500	substances liberating photographically active	8/40	• • Development by heat [5, 2006.01]
	agents or colour-coupling substances; Solvents	8/42	• Structural details [5, 2006.01]
	therefor [5, 2006.01]	8/44	 Integral units, i.e. the image-forming section not
7/392	 Additives (G03C 7/305, G03C 7/32 take precedence) [5, 2006.01] 		being separated from the image-receiving section [5, 2006.01]
7/396	• • • Macromolecular additives [5, 2006.01]	8/46	• • • characterised by the trapping means or by gas
7/407	 Development processes or agents 		releasing means [5, 2006.01]
	therefor [5, 2006.01]	8/48	 characterised by substances used for masking
7/413	• • • Developers [5, 2006.01]		the image-forming section [5, 2006.01]
7/42	• • Bleach-fixing or agents therefor [3, 5, 2006.01]	8/50	 Peel-apart units, i.e. the image-forming section
7/44	 Regeneration; Replenishers (G03C 7/42 takes precedence) [5, 2006.01] 		being separated from the image-receiving section [5, 2006.01]
7/46	 Subtractive colour processes not covered by group G03C 7/26; Materials therefor; Preparing or 	8/52	 Bases or auxiliary layers; Substances therefor [5, 2006.01]
	processing such materials [5, 2006.01]	8/54	• • • Timing layers [5, 2006.01]
		8/56	• • • Mordant layers [5, 2006.01]
8/00	Diffusion transfer processes or agents therefor;		
	Photosensitive materials for such	9/00	Stereo-photographic or similar processes [1, 2006.01]
8/02	processes [5, 2006.01]Photosensitive materials characterised by the image-	9/02	• Parallax-stereogram [1, 2006.01]
0/02	forming section [5, 2006.01]	9/04	• Vectographic-image [1, 2006.01]
8/04	the substances transferred by diffusion consisting	9/06	• Anaglyph [1, 2006.01]
	of inorganic compounds or of organo-metallic compounds derived from photosensitive noble	9/08	• producing three-dimensional images [1, 2006.01]
0./00	metals [5, 2006.01]	11/00	Auxiliary processes in photography (characterised by apparatus used G03D 15/00) [1, 2006.01]
8/06	• • Silver salt diffusion transfer [5, 2006.01]	11/02	 Marking or applying of text [1, 2006.01]
8/08	• the substances transferred by diffusion consisting	11/04	 Retouching [1, 2006.01]
	of organic compounds (G03C 8/04 takes precedence) [5, 2006.01]	11/06	 Smoothing; Renovating; Roughening; Matting;
8/10	• • of dyes or their precursors [5, 2006.01]		Cleaning; Lubricating; Flame retardant
8/12	• • • characterised by the release		treatments [1, 5, 2006.01]
8/14	mechanism [5, 2006.01] • • • • • Oxidation of the chromogenic	11/08	 Varnishing, e.g. application of protective layers on finished photographic prints [1, 5, 2006.01]
0/14	substance [5, 2006.01]	11/10	• • for protection from ultraviolet light [1, 2006.01]
8/16	• • • • • initially diffusable in alkaline environment [5, 2006.01]	11/12	 Stripping or transferring intact photographic layers [1, 2006.01]
8/18	• • • • • • Dye developers [5, 2006.01]	11/14	• Pasting; Mounting [1, 2006.01]
	ž - · -	11/16	• Drying [1, 2006.01]
8/20	• • • • • initially non-diffusable in alkaline environment [5, 2006.01]	11/18	 Colouring [1, 2006.01]
8/22	• • • • Reduction of the chromogenic	11/20	 with powdered or molten colours [1, 2006.01]
	substance [5, 2006.01]	11/22	 Preparing plates or films for the manufacture of photographic negatives by non-photographic
8/24	 Photosensitive materials characterised by the image- receiving section [5, 2006.01] 		processes [1, 2006.01]
8/26	 • Image-receiving layers (G03C 8/52 takes precedence) [5, 2006.01] 	11/24	Removing emulsion from waste photographic material; Recovery of photosensitive
8/28	• • containing development nuclei or compounds forming such nuclei [5, 2006.01]		substances [1, 5, 2006.01]

G03D APPARATUS FOR PROCESSING EXPOSED PHOTOGRAPHIC MATERIALS; ACCESSORIES THEREFOR

Subclass index

APPARATUS FOR PROCESSING EXPOSED MATERIAL	
Liquid; gas; diffusion processing apparatus	3/00, 5/00, 7/00, 9/00
Reversal processing apparatus	11/00
Other apparatus and accessories	13/00

APPARATUS FOR TREATING PROCESSED MATERIAL	15/00
DARK-ROOMS	17/00

3/00	Liquid processing apparatus involving immersion; Washing apparatus involving immersion (G03D 9/00,	11/00	Reversal processing apparatus [1, 2006.01]
	G03D 11/00 take precedence) [1, 2006.01]	13/00	Processing apparatus or accessories therefor, not
3/02	• Details of liquid circulation [1, 2006.01]		covered by groups G03D 3/00-
3/04	• • Liquid agitators [1, 2006.01]		G03D 11/00 [1, 2006.01]
3/06	 Liquid supply; Liquid circulation outside 	13/02	 Containers; Holding-devices [1, 2006.01]
	tanks [1, 2006.01]	13/04	 Trays; Dishes; Tanks [1, 2006.01]
3/08	 having progressive mechanical movement of exposed material [1, 2006.01] 	13/06	• • Light-tight tanks with provision for loading in daylight [1, 2006.01]
3/10	 for plates, films, or prints held individually [1, 2006.01] 	13/08	 Devices for holding exposed material; Devices for supporting exposed material [1, 2006.01]
3/12	 for plates, films or prints spread onto belt conveyors [1, 2, 2006.01] 	13/10	• • • Clips (G03D 13/14 takes precedence) [1, 2006.01]
3/13	 for long films or prints in the shape of strips, e.g. fed by roller assembly [2, 2006.01] 	13/12	• • • Frames (G03D 13/14 takes precedence) [1, 2006.01]
3/14	 • with means for taking into account of elongation or contraction of films [1, 2006.01] 	13/14	• • • for holding films in spaced convolutions [1, 2006.01]
3/16	 Treating exposed material in original holder [1, 2006.01] 	15/00	Apparatus for treating processed material [1, 2006.01]
5/00	Liquid processing apparatus in which no immersion is effected; Washing apparatus in which no	15/02	• Drying; Glazing (combined with processing apparatus G03D 3/00-G03D 13/00) [1, 2006.01]
	immersion is effected (G03D 9/00, G03D 11/00 take	15/04	 Cutting; Splicing [1, 2006.01]
	precedence) [1, 2006.01]	15/06	 Applying varnish or other coating [1, 2006.01]
5/02	 using rupturable ampoules of liquid [1, 2006.01] 	15/08	 Flattening prints [1, 2006.01]
5/04	• using liquid sprays [1, 2006.01]	15/10	 Mounting, e.g. of processed material in a frame
5/06	• Applicator pads, rollers, or strips [1, 2, 2006.01]		(frames specially adapted for projection G03B 21/64) [1, 2006.01]
7/00	Gas processing apparatus [1, 2006.01]		
9/00 9/02	Diffusion development apparatus [1, 2006.01]using rupturable ampoules of liquid [1, 2006.01]	17/00	Dark-room arrangements not provided for in the other groups of this subclass; Portable dark-rooms [1, 2006.01]

PHOTOMECHANICAL PRODUCTION OF TEXTURED OR PATTERNED SURFACES, e.g. FOR PRINTING, FOR PROCESSING OF SEMICONDUCTOR DEVICES; MATERIALS THEREFOR; ORIGINALS THEREFOR; APPARATUS SPECIALLY ADAPTED THEREFOR (phototypographic composing devices B41B; photosensitive materials or processes for photographic purposes G03C; electrography, sensitive layers or processes G03G)

Note(s) [5]

In this subclass, the following terms or expressions are used with the meanings indicated:

- "photosensitive" means not only sensitive of electromagnetic radiation but also to corpuscular radiation;
- "photosensitive compositions" covers photosensitive substances, e.g. quinonediazides, and, if applicable, binders or additives;
- "photosensitive materials" covers the photosensitive compositions, e.g. photoresists, the bases carrying them and, if applicable, auxiliary layers.
- 1/00 Originals for photomechanical production of textured or patterned surfaces, e.g. masks, photomasks or reticles; Mask blanks or pellicles therefor; Containers specially adapted therefor; Preparation thereof [1, 3, 2006.01, 2012.01]

Note(s) [2012.01]

In this main group, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.

 Masks or mask blanks for imaging by charged particle beam [CPB] radiation, e.g. by electron beam; Preparation thereof [2012.01]

- Masks or mask blanks for imaging by radiation of 100 nm or shorter wavelength, e.g. X-ray masks, extreme ultraviolet [EUV] masks; Preparation thereof [2012.01]
- 1/24 Reflection masks; Preparation thereof [2012.01]
- Phase shift masks [PSM]; PSM blanks; Preparation thereof [2012.01]
- 1/28 with three or more diverse phases on the same PSM; Preparation thereof **[2012.01]**
- 1/29 Rim PSM or outrigger PSM; Preparation thereof [2012.01]
- 1/30 Alternating PSM, e.g. Levenson-Shibuya PSM; Preparation thereof **[2012.01]**

- 1/32 Attenuating PSM [att-PSM], e.g. halftone PSM or PSM having semi-transparent phase shift portion; Preparation thereof [2012.01]
- 1/34 Phase-edge PSM, e.g. chromeless PSM; Preparation thereof [2012.01]
- Masks having proximity correction features;
 Preparation thereof, e.g. optical proximity correction
 [OPC] design processes [2012.01]
- Masks having auxiliary features, e.g. special coatings or marks for alignment or testing; Preparation thereof [2012.01]
- Electrostatic discharge [ESD] related features, e.g. antistatic coatings or a conductive metal layer around the periphery of the mask substrate [2012.01]
- 1/42 Alignment or registration features, e.g. alignment marks on the mask substrates [2012.01]
- Testing or measuring features, e.g. grid patterns, focus monitors, sawtooth scales or notched scales [2012.01]
- 1/46 • Antireflective coatings [2012.01]
- 1/48 • Protective coatings **[2012.01]**
- 1/50 Mask blanks not covered by groups G03F 1/20-G03F 1/26; Preparation thereof **[2012.01]**
- 1/52 Reflectors **[2012.01]**
- 1/54 Absorbers, e.g. opaque materials **[2012.01]**
- 1/56 • Organic absorbers, e.g. photo-resists [2012.01]
- 1/58 having two or more different absorber layers, e.g. stacked multilayer absorbers [2012.01]
- 1/60 Substrates [2012.01]
- Pellicles or pellicle assemblies, e.g. having membrane on support frame; Preparation thereof [2012.01]
- 1/64 characterised by the frames, e.g. structure or material thereof **[2012.01]**
- Containers specially adapted for masks, mask blanks or pellicles; Preparation thereof [2012.01]
- 1/68 Preparation processes not covered by groups G03F 1/20-G03F 1/50 [2012.01]
- 1/70 Adapting basic layout or design of masks to lithographic process requirements, e.g. second iteration correction of mask patterns for imaging [2012.01]
- 1/72 • Repair or correction of mask defects [2012.01]
- 1/74 • by charged particle beam [CPB], e.g. focused ion beam [2012.01]
- 1/76 • Patterning of masks by imaging [2012.01]
- 1/78 • by charged particle beam [CPB], e.g. electron beam [2012.01]
- 1/80 • Etching [2012.01]
- 1/82 • Auxiliary processes, e.g. cleaning [2012.01]
- 1/84 • Inspecting [2012.01]
- 1/86 • by charged particle beam [CPB] **[2012.01]**
- 1/88 prepared by photographic processes for producing originals simulating relief [2012.01]
- 1/90 prepared by montage processes [2012.01]
- 1/92 prepared from printing surfaces [2012.01]
- 3/00 Colour separation; Correction of tonal value (photographic copying apparatus in general G03B) [1, 2006.01]
- 3/02 by retouching **[1, 2006.01]**
- 3/04 by photographic means [1, 2006.01]
- 3/06 • by masking [1, 2006.01]
- 3/08 by photoelectric means **[1, 2006.01]**

- Checking the colour or tonal value of separation negatives or positives [1, 2006.01]
- 5/00 Screening processes; Screens therefor [1, 2006.01]
- 5/02 by projecting methods (cameras G03B) [1, 2006.01]
- 5/04 • changing the screen effect **[1, 2006.01]**
- 5/06 • changing the diaphragm effect **[1, 2006.01]**
- 5/08 • using line screens **[1, 2006.01]**
- 5/10 using cross-line screens **[1, 2006.01]**
- 5/12 using other screens, e.g. granulated screen [1, 2006.01]
- 5/14 by contact methods **[1, 2006.01]**
- 5/16 using grey half-tone screens **[1, 2006.01]**
- 5/18 • using colour half-tone screens **[1, 2006.01]**
- 5/20 using screens for gravure printing [1, 2006.01]
- 5/22 combining several screens; Elimination of moire [1, 2006.01]
- by multiple exposure, e.g. combined processes for line photo and screen [1, 2006.01]
- 7/00 Photomechanical, e.g. photolithographic, production of textured or patterned surfaces, e.g. printed surfaces; Materials therefor, e.g. comprising photoresists; Apparatus specially adapted therefor (using photoresist structures for special production processes, see the relevant places, e.g. B44C, H01L, e.g. H01L 21/00, H05K) [1, 3, 5, 2006.01]
- Photosensitive materials (G03F 7/12, G03F 7/14 take precedence) [5, 2006.01]
- 7/008 • Azides (G03F 7/075 takes precedence) **[5, 2006.01]**
- 7/012 • Macromolecular azides; Macromolecular additives, e.g. binders [5, 2006.01]
- 7/016 Diazonium salts or compounds (G03F 7/075 takes precedence) [5, 2006.01]
- 7/021 • Macromolecular diazonium compounds; Macromolecular additives, e.g. binders [5, 2006.01]
- 7/022 • Quinonediazides (G03F 7/075 takes precedence) **[5, 2006.01]**
- 7/023 • Macromolecular quinonediazides; Macromolecular additives, e.g. binders [5, 2006.01]
- 7/025 Non-macromolecular photopolymerisable compounds having carbon-to-carbon triple bonds, e.g. acetylenic compounds (G03F 7/075 takes precedence) [5, 2006.01]
- Non-macromolecular photopolymerisable compounds having carbon-to-carbon double bonds, e.g. ethylenic compounds (G03F 7/075 takes precedence) [5, 2006.01]
- 7/028 • with photosensitivity-increasing substances, e.g. photoinitiators [5, 2006.01]
- 7/029 • • Inorganic compounds; Onium compounds; Organic compounds having hetero atoms other than oxygen, nitrogen or sulfur [5, 2006.01]
- 7/031 • • Organic compounds not covered by group G03F 7/029 **[5, 2006.01]**
- 7/032 • with binders **[5, 2006.01]**
- 7/033 • the binders being polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds, e.g. vinyl polymers [5, 2006.01]
- 7/035 • the binders being polyurethanes **[5, 2006.01]**
- 7/037 • the binders being polyamides or polyimides [5, 2006.01]

7/038	 Macromolecular compounds which are rendered insoluble or differentially wettable (G03F 7/075 takes precedence; macromolecular azides G03F 7/012; macromolecular diazonium compounds G03F 7/021) [5, 2006.01] Macromolecular compounds which are photodegradable, e.g. positive electron resists (G03F 7/075 takes precedence; macromolecular quinonediazides G03F 7/023) [5, 2006.01] 	 Means for focusing, e.g. automatically (combination of positioning and focusing G03F 9/02; systems for automatic generation of focusing signals in general G02B 7/28; means for automatic focusing of projection printing apparatus G03B 27/34) [4, 2006.01] Exposing with the same light pattern different positions of the same surface at the same time (G03F 7/207 takes precedence) [4, 2006.01]
7/04	 Chromates (G03F 7/075 takes precedence) [1, 5, 2006.01] 	 7/22 • Exposing sequentially with the same light pattern different positions of the same surface
7/06	• • Silver salts (G03F 7/075 takes	(G03F 7/207 takes precedence) [1, 4, 2006.01]
	precedence) [1, 5, 2006.01]	7/23 • • • Automatic means therefor [4, 2006.01]
7/07	• • used for diffusion transfer [5, 2006.01]	7/24 • • Curved surfaces [1, 2006.01]
	 • Silicon-containing compounds [5, 2006.01] • Photosensitive compositions characterised by adhesion-promoting non-macromolecular 	 Processing photosensitive materials; Apparatus therefor (G03F 7/12-G03F 7/24 take precedence) [3, 5, 2006.01]
	additives (G03F 7/075 takes precedence) [5, 2006.01]	7/28 • • for obtaining powder images (G03F 3/10 takes precedence) [5, 2006.01]
7/09	 characterised by structural details, e.g. supports, auxiliary layers (supports for printing plates in 	7/30 • • Imagewise removal using liquid means [5, 2006.01]
7/095	general B41N) [5, 2006.01] • • • having more than one photosensitive layer	7/32 • • • Liquid compositions therefor, e.g. developers [5, 2006.01]
7/105	(G03F 7/075 takes precedence) [5, 2006.01] • • • having substances, e.g. indicators, for forming	7/34 • • Imagewise removal by selective transfer, e.g. peeling away [5, 2006.01]
7/11	visible images [5, 2006.01] • • • having cover layers or intermediate layers, e.g. subbing layers [5, 2006.01]	7/36 • • Imagewise removal not covered by groups G03F 7/30-G03F 7/34, e.g. using gas streams, using plasma [5, 2006.01]
7/115	 having supports or layers with means for obtaining a screen effect or for obtaining better 	7/38 • • Treatment before imagewise removal, e.g. prebaking [5, 2006.01]
7/12	contact in vacuum printing [5, 2006.01]Production of screen printing forms or similar	7/40 • • Treatment after imagewise removal, e.g. baking [5, 2006.01]
	printing forms, e.g. stencils [1, 2006.01]	7/42 • • Stripping or agents therefor [5, 2006.01]
	• Production of collotype printing forms [1, 2006.01]	0/00 Desistuation or positioning of originals made
	 Coating processes; Apparatus therefor (applying coatings to base materials in general B05; applying photosensitive compositions to the base for photographic purposes G03C 1/74) [1, 2006.01] 	9/00 Registration or positioning of originals, masks, frames, photographic sheets or textured or patterned surfaces, e.g. automatically (G03F 7/22 takes precedence; preparation of photographic masks
7/18	 Coating curved surfaces [1, 2006.01] 	G03F 1/00; within photographic printing apparatus for making copies G03B 27/00) [1, 4, 2006.01]
7/20	 Exposure; Apparatus therefor (photographic printing apparatus for making copies G03B 27/00) [1, 4, 2006.01] 	9/02 • combined with means for automatic focusing (automatic focusing in general G02B 7/09; systems for automatic generation of focusing signals

G03G ELECTROGRAPHY; ELECTROPHOTOGRAPHY; MAGNETOGRAPHY (information storage based on relative movement between record carrier and transducer G11B; static stores with means for writing-in or reading-out information G11C; recording of television signals H04N 5/76)

G02B 7/28) [4, 2006.01]

Note(s) [5]

- This subclass <u>covers</u>:
 - the production of permanent directly-visible pictures in conformity with an original picture or document, using an intermediate imagewise distribution of an electric or magnetic quantity, such as a charge pattern, an electric conductivity pattern, or a magnetic pattern;
 - the production of permanent directly-visible pictures using an intermediate imagewise distribution of an electric or magnetic
 quantity, when the origin and the way of generating said intermediate distribution are not relevant.
- 2. This subclass does not cover:
 - use of electric signals for the transmission of the picture information from the original to the reproduction, i.e. pictorial communication, which is covered by subclass H04N;
 - production of pictures by heat patterns exclusively, not using an electrostatic or magnetic pattern, which is covered by group B41M 5/00.
 - production of prints by transferring ink from a printing form to a printing surface, without physical contact and using the force of an electrostatic field, which is covered by subclass B41M;
 - selective printing mechanisms characterised by the selective supply of electric current, or the selective application of magnetism or radiation, to a printing material or impression-transfer material, which are covered by groups B41J 2/385, B41J 2/435.

Subclass index

ORIGINAL RECORDING, MEMBERS AND MATERIALS	5/00, 7/00, 9/00
ELECTROGRAPHIC PROCESSES AND APPARATUS	
Using a charge pattern	13/00, 15/00
Using patterns other than charge patterns	17/00
Using deformation of thermoplastic layers	
PROCESSES AND APPARATUS USING MAGNETIC PATTERNS	
DETAILS NOT OTHERWISE PROVIDED FOR	8/00, 11/00, 21/00

- 5/00 Recording-members for original recording by exposure e.g. to light, to heat, to electrons;

 Manufacture thereof; Selection of materials therefor (recording surfaces for measuring apparatus G01D 15/34; photosensitive materials for photographic purposes G03C) [1, 2006.01]
- 5/02 Charge-receiving layers (G03G 5/153 takes precedence) [1, 5, 2006.01]
- 5/022 Layers for surface-deformation imaging, e.g. frost imaging [2, 2006.01]
- 5/024 • Photoelectret layers [2, 2006.01]
- 5/026 Layers in which during the irradiation a chemical reaction occurs whereby electrically conductive patterns are formed in the layers, e.g. for chemixerography [2, 2006.01]
- 5/028 Layers in which after being exposed to heat patterns electrically conductive patterns are formed in the layers, e.g. for thermoxerography [2, 2006.01]
- 5/04 Photoconductive layers; Charge-generation layers or charge-transporting layers; Additives therefor; Binders therefor [1, 2, 5, 2006.01]
- 5/043 • Photoconductive layers characterised by having two or more layers or characterised by their composite structure [5, 2006.01]
- 5/047 • characterised by the charge-generation layers or charge-transporting layers **[5, 2006.01]**
- 5/05 • Organic bonding materials; Methods for coating a substrate with a photoconductive layer; Inert supplements for use in photoconductive layers [2, 2006.01]
- 5/06 • characterised by the photoconductive material being organic [1, 5, 2006.01]
- 5/07 • Polymeric photoconductive materials **[2, 2006.01]**
- 5/08 • characterised by the photoconductive material being inorganic [1, 2, 5, 2006.01]
- 5/082 • and not being incorporated in a bonding material, e.g. vacuum deposited [2, 2006.01]
- 5/085 • and being incorporated in an inorganic bonding material, e.g. glass-like layers [2, 2006.01]
- 5/087 • and being incorporated in an organic bonding material [2, 2006.01]
- 5/09 • Sensitisers or activators, e.g. dyestuffs (G03G 5/12 takes precedence) [2, 2006.01]
- Bases for charge-receiving or other layers [1, 2006.01]
- Recording members for multicolour processes [2, 2006.01]
- Inert intermediate or cover layers for chargereceiving layers (G03G 5/04 takes precedence) [2, 5, 2006.01]
- 5/147 • Cover layers **[5, 2006.01]**

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- 5/153 Charge-receiving layers combined with additional photo- or thermo-sensitive, but not photoconductive, layers, e.g. silver-salt layers [5, 2006.01]
- Layers for recording by changing the magnetic properties, e.g. for Curie-point-writing [3, 2006.01]
- 7/00 Selection of materials for use in image-receiving members, i.e. for reversal by physical contact;

 Manufacture thereof (photosensitive materials for photographic purposes G03C) [1, 2006.01]
- 8/00 Layers covering the final reproduction, e.g. for protecting, for writing thereon [2, 2006.01]
- 9/00 Developers [1, 5, 2006.01]
- 9/06 the developer being electrolytic [1, 2006.01]
- 9/08 with toner particles **[2, 2006.01]**

Note(s) [5]

In groups G03G 9/083-G03G 9/12, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.

- 9/083 • Magnetic toner particles **[5, 2006.01]**
- 9/087 • Binders for toner particles **[5, 2006.01]**
- 9/09 • Colouring agents for toner particles **[5, 2006.01]**
- 9/093 • Encapsulated toner particles [5, 2006.01]
- 9/097 • Plasticisers; Charge controlling agents **[5, 2006.01]**
- 9/10 characterised by carrier particles **[2, 5, 2006.01]**
- 9/107 • having magnetic components **[5, 2006.01]**
- 9/113 • having coatings applied thereto **[5, 2006.01]**
- 9/12 • in liquid developer mixtures **[2, 2006.01]**9/125 • characterised by the liquid **[5, 2006.01]**
- 9/13 • characterised by polymer
- components [5, 2006.01]
- 9/135 • characterised by stabiliser or charge-controlling agents [5, 2006.01]
- 9/16 Developers not provided for in groups G03G 9/06-G03G 9/135, e.g. solutions, aerosols [2, 2006.01]
- 9/18 • Differentially-wetting liquid developers [2, 2006.01]
- 11/00 Selection of substances for use as fixing agents [1, 2006.01]
- **13/00** Electrographic processes using a charge pattern (G03G 15/00, G03G 16/00, G03G 17/00 take precedence) [1, 2, 5, 2006.01]
- 13/01 for multicoloured copies **[2, 2006.01]**
- Sensitising, i.e. laying-down a uniform charge (devices for corona discharge per se H01T 19/00) [1, 2006.01]
- 13/04 Exposing, i.e. imagewise exposure by optically projecting the original image on a photoconductive recording material [1, 6, 2006.01]

13/045	 Charging or discharging distinct portions of the charge pattern on the recording material, e.g. discharging non-image areas, contrast enhancement (G03G 13/34, G03G 15/36, G03G 21/06 take precedence) [6, 2006.01] 	15/045	• with means for charging or discharging distinct portions of the charge pattern on the recording material, e.g. for contrast enhancement or discharging non-image areas (G03G 15/36, G03G 21/06 take precedence) [6, 2006.01]
13/05	 Imagewise charging, i.e. laying-down a charge in the configuration of an original image using a modulated stream of charged particles, e.g. of corona ions, modulated by a photoconductive control screen bearing a charge pattern or by optically activated 	15/047 15/05	 for discharging non-image areas [6, 2006.01] for imagewise charging, e.g. photoconductive control screen, optically activated charging means (charging means controlled by electric image signals B41J) [6, 2006.01]
	charging means (using charging means controlled by	15/054	• using X-rays, e.g. electroradiography [6, 2006.01]
12/05/	electric image signals B41J) [6, 2006.01]	15/056	 using internal polarisation [2, 6, 2006.01]
13/054 13/056	 using X-rays, e.g. electroradiography [6, 2006.01] using internal polarisation [2, 6, 2006.01] 	15/06	 for developing [1, 2006.01]
13/050	 Developing [1, 2006.01] 	15/08	• • using a solid developer, e.g. powder
13/08	using a solid developer, e.g. powder	15/00	developer [1, 2006.01]
	developer [1, 2006.01]	15/09 15/095	using magnetic brush [2, 2006.01]Removing excess solid developer [6, 2006.01]
13/09	• • • using magnetic brush [2, 2006.01]	15/055	 using a liquid developer [1, 2006.01]
13/095	• • Removing excess solid developer [6, 2006.01]	15/11	Removing excess liquid developer e.g. by
13/10	• • using a liquid developer [1, 2006.01]	10/11	heat [6, 2006.01]
13/11	• • Removing excess liquid developer, e.g. by heat [6, 2006.01]	15/14	 for transferring a pattern to a second base [1, 2006.01]
13/14	• Transferring a pattern to a second base [1, 2006.01]	15/16	• • of a toner pattern, e.g. a powder
13/16	• • of a toner pattern, e.g. a powder		pattern [1, 2006.01]
12/10	pattern [1, 2006.01]	15/18	 of a charge pattern [1, 2006.01]
13/18	• • of a charge pattern [1, 2006.01]	15/20	• for fixing, e.g. by using heat [1, 2006.01]
13/20 13/22	Fixing, e.g. by using heat [1, 2006.01]Processes involving the combination of more than	15/22	• involving the combination of more than one step
13/22	one step according to groups G03G 13/02-G03G 13/20 (G03G 13/01 takes	45 (00	according to groups G03G 13/02-G03G 13/20 (G03G 15/01 takes precedence) [1, 2, 2006.01]
	precedence) [1, 2, 2006.01]	15/23	 specially adapted for copying both sides of an original or for copying on both sides of a
13/23	specially adapted for copying both sides of an		recording or image-receiving material [6, 2006.01]
	original or for copying on both sides of a	15/24	whereby at least two steps are performed
	recording or image-receiving material [6, 2006.01]		simultaneously [2, 2006.01]
13/24	whereby at least two steps are performed simultaneously [2, 2006.01]	15/26	 in which the charge pattern is obtained by projection of the entire image, i.e. whole-frame
13/26	• for the production of printing plates for non-		projection (G03G 15/04 takes
13/28	xerographic printing processes [2, 2006.01]Planographic printing plates [2, 2006.01]	45 (00	precedence) [2, 6, 2006.01]
13/30	 Hectographic masters [2, 2006.01] 	15/28	• • in which projection is obtained by line scanning (G03G 15/04 takes precedence) [2, 6, 2006.01]
13/32	 Relief printing plates [2, 2006.01] 	15/30	• • in which projection is formed on a
13/34	Editing, i.e. producing a composite image by copying	15/50	drum [2, 2006.01]
13,3.	one or more original images or parts thereof [6, 2006.01]	15/32	• • in which the charge pattern is formed dotwise (G03G 15/04, G03G 15/05, G03G 15/34 take
4 = 400			precedence) [2, 6, 2006.01]
15/00	Apparatus for electrographic processes using a charge pattern (G03G 16/00, G03G 17/00 take	15/34	• • in which the powder image is formed directly on the recording material [6, 2006.01]
	precedence) [1, 2, 5, 2006.01]	15/36	Editing, i.e. producing a composite image by copying
	Note(s)		one or more original images or parts
	This group <u>covers</u> also processes in so far as they are		thereof [6, 2006.01]
	characterised by the use or manipulation of apparatus	16/00	Electrographic processes using deformation of
	classifiable <u>per se</u> in this group.		thermoplastic layers (layers for surface-deformation
15/01	• for producing multicoloured copies [2, 2006.01]		imaging G03G 5/022); Apparatus
15/02	• for laying down a uniform charge, e.g. for sensitising; Corona discharge devices (G03G 15/14 takes	17/00	therefor [2, 6, 2006.01] Electrographic processes using patterns other than
15/04	 precedence) [1, 6, 2006.01] for exposing, i.e. imagewise exposure by optically projecting the original image on a photoconductive recording material [1, 6, 2006.01] 	17700	charge patterns, e.g. an electric conductivity pattern; Processes involving a migration, e.g. photoelectrophoresis, photoelectrosolography;
15/041	• • with variable magnification [6, 2006.01]		Processes involving a selective transfer, e.g.
15/043	with means for controlling illumination or		electrophoto-adhesive processes; Apparatus essentially involving a single such
	exposure (G03G 15/041 takes		process [1, 5, 2006.01]
	precedence) [6, 2006.01]	17/02	 with electrolytic development [2, 2006.01]
		17/04	• using photoelectrophoresis [2, 2006.01]
		17/06	• • Apparatus therefor [5, 2006.01]

17/08	 using an electrophoto-adhesive process, e.g. manifold imaging [5, 2006.01] 	21/04 •	Preventing copies being made of an original [6, 2006.01]
17/10	• using migration imaging, e.g. photoelectrosolography (G03G 17/04 takes precedence) [5, 2006.01]	21/06 •	Eliminating residual charges from a reusable imaging member [6, 2006.01]
		21/08 •	 using optical radiation [6, 2006.01]
19/00	Processes using magnetic patterns; Apparatus	21/10 •	Collecting or recycling waste developer [6, 2006.01]
therefor [1, 2006.01]	therefor [1, 2006.01]	21/12 •	 Toner waste containers [6, 2006.01]
21/00	Arrangements not provided for by groups	21/14 •	Electronic sequencing control [6, 2006.01]
	G03G 13/00-G03G 19/00, e.g. cleaning, elimination of	21/16 •	Mechanical means for facilitating the maintenance of
	residual charge [2, 2006.01]		the apparatus, e.g. modular
21/02	• Counting the number of copies; Billing [6, 2006.01]		arrangements [6, 2006.01]
		21/18 •	 using a processing cartridge [6, 2006.01]
		21/20 •	Humidity or temperature control [6, 2006.01]

G03H HOLOGRAPHIC PROCESSES OR APPARATUS (holograms, e.g. point holograms, used as ordinary optical elements G02B 5/32; analogue computers performing mathematical operations with the aid of optical elements G06E 3/00; holographic storage G11B 7/0065, G11C 13/04) [2]

Note(s) [2]

This subclass <u>covers</u> means for producing a record of the phase and amplitude information of a wave-front, which information can be used to reconstruct the original wave-front, or means to reconstruct the original wave-front from a record containing the phase and amplitude information of the wave-front.

mommun	on of the wave from.		
1/00	Holographic processes or apparatus using light, infrared, or ultraviolet waves for obtaining holograms or for obtaining an image from them; Details peculiar thereto [2, 2006.01]	1/24 1/26	 using white light [2, 2006.01] Processes or apparatus specially adapted to produce multiple holograms or to obtain images from them, e.g. multicolour technique [2, 2006.01]
1/02	• Details [2, 2006.01]	1/28	 superimposed holograms only [2, 2006.01]
1/04	 Processes or apparatus for producing holograms 	1/30	• • discrete holograms only [2, 2006.01]
	(G03H 1/26 takes precedence) [2, 2006.01]	1/32	Systems for obtaining speckle
1/06	 using incoherent light [2, 2006.01] 		elimination [2, 2006.01]
1/08	• • Synthesising holograms [2, 2006.01]	1/34	Systems for reducing the space-spatial bandwidth
1/10	• • using modulated reference beam [2, 2006.01]		product [2, 2006.01]
1/12	• • • Spatial modulation, e.g. ghost imaging [2, 2006.01]	3/00	Holographic processes or apparatus using ultrasonic, sonic, or infrasonic waves for obtaining holograms;
1/14	 • Temporal modulation, e.g. extending depth of field or phase compensation for object motion [2, 2006.01] 		Processes or apparatus for obtaining an optical image from them (G03H 1/22 takes
1/16	• • using Fourier transform (G03H 1/12, G03H 1/14		precedence) [2, 2006.01]
	take precedence) [2, 2006.01]	5/00	Holographic processes or apparatus using particles
1/18	 Particular processing of hologram record carriers, e.g. for obtaining blazed holograms [2, 2006.01] 	37 00	or using waves other than those covered by groups G03H 1/00 or G03H 3/00 for obtaining holograms;
1/20	 Copying holograms by holographic means [2, 2006.01] 		Processes or apparatus for obtaining an optical image from them (G03H 1/22 takes
1/22	 Processes or apparatus for obtaining an optical image from holograms (G03H 1/26-G03H 1/34 take precedence) [2, 2006.01] 		precedence) [2, 2006.01]