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 ultra-violet or infra-red 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)

- 1. 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
viewfinders, focusing aids	
filters; constructional details, accessories	
special procedures for taking photographs	15/00
Common to projectors only	
Common to printers only	27/00
APPARATUS	
Cameras	19/00
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	
Other techniques	41/00
Using waves other than optical waves, visualisation	42/00
TESTING	43/00

<u>Details common to at least two of the following types of apparatus: cameras, projectors, printers</u>

- 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]

- 1/14 Special arrangements to ensure constant length of 5/08 Swing backs [1, 2006.01, 2021.01] movement of film [1, 2006.01, 2021.01] 1/16 by film-arresting pins [1, 2006.01, 2021.01] **Details common to cameras** Moving film strip by means which act on the film 1/18 between the ends thereof [1, 2006.01, 2021.01] 7/00 Control of exposure by setting shutters, diaphragms or • Acting means [1, 2006.01, 2021.01] 1/20 filters, separately or conjointly (control of exposure in 1/22 Claws or pins engaging holes in the television cameras by means of circuitry influencing the film [1, 2006.01, 2021.01] optical part of the camera 1/24 Sprockets engaging holes in the H04N 5/238) [1, 2006.01, 2014.01, 2021.01] film [1, 2006.01, 2021.01] 7/01 • with selection of either manual or automatic 1/26 Spiked wheels or pins not penetrating the mode [2014.01, 2021.01] film [1, 2006.01, 2021.01] 7/02 Control effected by setting a graduated member on 1/28 Shuttle feed [1, 2006.01, 2021.01] the camera in accordance with indication or reading 1/30 Belt feed [1, 2006.01, 2021.01] afforded by a light meter, which may be either Friction grippers or separate from, or built into, camera 1/32 rollers [1, 2006.01, 2021.01] body [1, 2006.01, 2021.01] 1/34 • Beaters [1, 2006.01, 2021.01] 7/04 Control effected by hand adjustment of a member that 1/36 • Pneumatic acting means [1, 2006.01, 2021.01] senses indication of a pointer of a built-in lightsensitive device, e.g. by restoring pointer to a fixed 1/38 embodying Geneva motion, e.g. Maltese-cross associated reference mark [1, 2006.01, 2021.01] gearing [1, 2006.01, 2021.01] 7/06 by a follow-up movement of an associated • embodying frictional coupling or 1/40 reference mark to the clutches [1, 2006.01, 2021.01] pointer [1, 2006.01, 2021.01] 1/42 Guiding, framing, or constraining film in desired 7/08 Control effected solely on the basis of the response, to position relative to lens system [1, 2006.01, 2021.01] the intensity of the light received by the camera, of a 1/44 Guides engaging edge of film (gates built-in light-sensitive G03B 1/48) [1, 2006.01, 2021.01] device [1, 2006.01, 2014.01, 2021.01] 1/46 Rollers engaging face of film, e.g. barrel, waisted, 7/0805 • Setting of priority modes [2014.01, 2021.01] conical (gates G03B 1/48) [1, 2006.01, 2021.01] 7/081 • • Analogue circuits [3, 2006.01, 2021.01] 1/48 Gates or pressure devices, e.g. for control of exposure 7/083 plate [1, 2006.01, 2021.01] time [3, 2006.01, 2021.01] 1/50 adjustable or interchangeable, e.g. for different 7/085 for control of aperture [3, 2006.01, 2021.01] film widths [1, 2006.01, 2021.01] for control of both exposure time and 7/087 1/52 Pneumatic pressure aperture [3, 2006.01, 2021.01] devices [1, 2006.01, 2021.01] 7/089 for storage of exposure value in mirror reflex • • Tensioning or loop-maintaining 1/54 cameras [3, 2006.01, 2021.01] devices [1, 2006.01, 2021.01] 7/091 • Digital circuits [3, 2006.01, 2021.01] 1/56 • Threading; Loop forming [1, 2006.01, 2021.01] 7/093 for control of exposure • automatic [1, 2006.01, 2021.01] 1/58 time [3, 2006.01, 2021.01] 1/60 Measuring or indicating length of the used or unused 7/095 for control of aperture [3, 2006.01, 2021.01] film; Counting number of for control of both exposure time and 7/097 exposures [1, 2006.01, 2021.01] aperture [3, 2006.01, 2021.01] 1/62 involving locking or stop-motion • • Arrangement of photoelectric elements in or on 7/099 devices [1, 2006.01, 2021.01] the camera [3, 2006.01, 2014.01, 2021.01] 1/64 by means which ascertain the radius of the film 7/0993 • • • in the camera [2014.01, 2021.01] coiled on a spool [1, 2006.01, 2021.01] 7/0997 • Through the lens [TTL] 1/66 Counting number of measuring [2014.01, 2021.01] exposures [1, 2006.01, 2021.01] 7/10 • a servo-motor providing energy to move the 3/00 Focusing arrangements of general interest for setting member [1, 2006.01, 2021.01] cameras, projectors or printers [1, 2006.01, 2021.01] 7/12 a hand-actuated member moved from one position 3/02 moving lens along baseboard [1, 2006.01, 2021.01] to another providing the energy to move the setting member, e.g. depression of shutter release button 3/04 adjusting position of image plane without moving causes a stepped feeler to co-operate with the lens [1, 2006.01, 2021.01] pointer of the light-sensitive device to set the using movable reflectors to alter length of light-3/06 diaphragm and thereafter release the path [1, 2006.01, 2021.01] shutter [1, 2006.01, 2021.01] • Power-operated focusing [1, 2006.01, 2021.01] 3/10 7/14 3/12 adapted for remote control [1, 2006.01, 2021.01]
 - setting of both shutter and diaphragm aperture 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]

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5/02

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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]

Lateral adjustment of lens [1, 2006.01, 2021.01]

Vertical adjustment of lens; Rising

Swinging lens about normal to the optical

fronts [1, 2006.01, 2021.01]

axis [1, 2006.01, 2021.01]

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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]
	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		flap [1, 2006.01, 2021.01]
5 (0.4	aircraft [1, 2006.01, 2021.01]	9/48	• • • Double flap [1, 2006.01, 2021.01]
7/24	 automatically in accordance with markings or other means indicating film speed or kind of film on the 	9/50	• • Louvre type [1, 2006.01, 2021.01]
	magazine to be inserted in the	9/52	• • Barrel shutters [1, 2006.01, 2021.01]
	camera [3, 2006.01, 2021.01]	9/54	 Conical shutters; Rotating plate with axis of rotation inclined to optical axis of
7/26	 Power supplies; Circuitry or arrangement to switch 		shutter [1, 2006.01, 2021.01]
	on the power source; Circuitry to check the power 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 opening
	exposure [2014.01, 2021.01]		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 from shutter G03B 17/38) [1, 2006.01, 2021.01]
9/02	 Diaphragms [1, 2, 2006.01, 2021.01] 	9/66	 Means for cocking shutter separate from means for
9/04	Single movable plate with two or more apertures	3/00	releasing shutter [1, 2006.01, 2021.01]
	of graded size, e.g. sliding plate, pivoting plate [1, 2006.01, 2021.01]	9/68	 Cocking effected by movement of
9/06	 • Two or more co-operating pivoted blades e.g. iris 		film [1, 2006.01, 2021.01]
3700	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		photographic purposes [1, 2006.01, 2021.01]
0 /00	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	11/06	aids [1, 2006.01, 2021.01]Lens caps for exposure
	members moving as a unit [1, 2006.01, 2021.01]	11/00	making [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]
0./10	direction [1, 2006.01, 2021.01]	13/02	 Viewfinders [1, 2006.01, 2021.01]
9/18 9/20	• • More than two members [1, 2006.01, 2021.01]• • • each moving in a single direction first to	13/04	• • of direct-vision type, e.g. frame, sighting
3/20	open and then to	13/06	mark [1, 2006.01, 2021.01] • with lenses with or without
	reclose [1, 2006.01, 2021.01]	15/00	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
	diaphragm that is	13/14	size of picture [1, 2006.01, 2021.01] • • to compensate for parallax due to short
	adjustable [1, 2006.01, 2021.01]	13/14	range [1, 2006.01, 2021.01]
9/26	• • • incorporating cover blade or	13/16	 combined with focusing aids [1, 2006.01, 2021.01]
0/20	blades [1, 2006.01, 2021.01] • • Roller blind or flexible plate [1, 2006.01, 2021.01]	13/18	• Focusing aids [1, 2006.01, 2021.01]
9/28 9/30	 • Single blind with multiple slots or other 	13/20	• • Rangefinders coupled with focusing arrangements
5/50	aperture [1, 2006.01, 2021.01]		e.g. adjustment of rangefinder automatically
9/32	• • • Double blind [1, 2006.01, 2021.01]	13/22	focusing camera [1, 2006.01, 2021.01] • • coupling providing for compensation upon
9/34	• • • with adjustable slot; with mechanism	10/22	change of camera lens [1, 2006.01, 2021.01]
	controlling relative movement of blinds to	13/24	 Focusing screens [1, 2006.01, 2021.01]
0/26	form slot [1, 2006.01, 2021.01]	13/26	• • • with magnifiers for inspecting image formed or
9/36 9/38	Sliding rigid plate [1, 2006.01, 2021.01]Single rigid plate with multiple slots or other		screen [1, 2006.01, 2021.01]
5/50	apertures [1, 2006.01, 2021.01]	13/28	• • Image-splitting devices [1, 2006.01, 2021.01]
9/40	• • • Double plate [1, 2006.01, 2021.01]	13/30	• • indicating depth of field [5, 2006.01, 2021.01]
		13/32	 Means for focusing [5, 2006.01, 2021.01] Power focusing [5, 2006.01, 2021.01]
		13/34 13/36	 Power focusing [5, 2006.01, 2021.01] Autofocus systems [5, 2006.01, 2021.01]
		10/00	1 1010 Cus systems [3, 2000.01, 2021.01]

<i>15/00</i>	Special procedures for taking photographs; Apparatus	17/36	 Counting number of exposures (of film strips
	therefor [1, 2006.01, 2021.01]		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; Flash units [1, 2006.01, 2021.01] 	17/40	 with shutter G03B 9/08) [1, 2006.01, 2021.01] with delayed or timed action [1, 2006.01, 2021.01]
15/035	• • Combinations of cameras with incandescent lamps [1, 2006.01, 2021.01]	17/42	 Interlocking between shutter operation and advance of film or change of plate or cut-
15/04	• • Combinations of cameras with non-electronic		film [1, 2006.01, 2021.01]
10,01	flash apparatus; Non-electronic flash units [1, 2006.01, 2021.01]	17/44	 Means for exchanging focusing screen and light- sensitive material [1, 2006.01, 2021.01]
15/05	Combinations of cameras with electronic flash	17/46	 Means for exposing single frames in motion-picture
	apparatus; Electronic flash units [1, 2006.01, 2021.01]	17/48	camera [1, 2006.01, 2021.01] • adapted for combination with other photographic or
15/06	Special arrangements of screening, diffusing, or	17/40	optical apparatus [1, 2006.01, 2021.01]
	reflecting devices, e.g. in studio [1, 2006.01, 2021.01]	17/50	 with both developing and finishing apparatus [1, 2006.01, 2021.01]
15/07	• • • Arrangements of lamps in	17/52	• • • of the Land type [1, 2006.01, 2021.01]
15/0/	studios [1, 2006.01, 2021.01]	17/53	
15/08	• Trick photography [1, 2006.01, 2021.01]	1//55	 for automatically delivering a finished picture after a signal causing exposure has been given,
15/10	using back-projection, i.e. blending artificial background with real		e.g. by pushing a button, by inserting a 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]
	operations [1, 2006.01, 2021.01]	17/56	Accessories (carrying-cases
15/16	 for photographing the track of moving objects (high- speed photography 	17/58	A45C 11/38) [1, 2006.01, 2021.01] • Attachments for converting cameras into reflex
	G03B 39/00) [1, 2006.01, 2021.01]	17/30	cameras [1, 2006.01, 2021.01]
17/00	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]	19/02	 Still-picture cameras [1, 2006.01, 2021.01]
17/04	• collapsible, foldable or extensible, e.g. book	19/04	 Roll-film cameras [1, 2006.01, 2021.01]
17/06	type [1, 2006.01, 2021.01] • with exposure meters or other indicators built into	19/06	• • • adapted to be loaded with more than one film,
17700	body but not connected to other camera		e.g. with exposure of one or the other at will (G03B 19/07 takes
	members [1, 2006.01, 2021.01]		precedence) [1, 2006.01, 2021.01]
17/08	Waterproof bodies or	19/07	• • having more than one
	housings [1, 2006.01, 2021.01]		objective [1, 2006.01, 2021.01]
17/10	 Soundproof bodies [1, 2006.01, 2021.01] 	19/08	• • • with provision for alternative use with plates or
17/12	 with means for supporting objectives, 		cut-films [1, 2006.01, 2021.01]
	supplementary lenses, filters, masks, or turrets [1, 2006.01, 2021.01]	19/10	 Plate or cut-film cameras (with provision for alternative use with roll film
17/14	 interchangeably [1, 2006.01, 2021.01] 		G03B 19/08) [1, 2006.01, 2021.01]
17/16	 for containing both motion-picture camera and 	19/12	 Reflex cameras with single objective and a
17/17	still-picture camera [1, 2006.01, 2021.01] • with reflectors arranged in beam forming the		movable reflector or a partly-transmitting mirror [1, 2006.01, 2021.01]
	photographic image, e.g. for reducing dimensions	19/14	 with paired lenses, one of which forms image on
	of camera [1, 2006.01, 2021.01]		photographic material and the other forms a
17/18	Signals indicating condition of a camera member or		corresponding image on a focusing
	suitability of light (indicating depth of field		screen [1, 2006.01, 2021.01]
	G03B 13/30) [1, 2006.01, 2021.01]	19/16	 Pin-hole cameras [1, 2006.01, 2021.01]
17/20	 visible in viewfinder [1, 2006.01, 2021.01] 	19/18	 Motion-picture cameras (with non-intermittently
17/22	 with means for cutting-off film [1, 2006.01, 2021.01] 		running film G03B 41/02) [1, 2006.01, 2021.01]
17/24	with means for separately producing marks on the	19/20	 Reflex cameras [1, 2006.01, 2021.01]
	film, e.g. title, time of exposure [1, 2006.01, 2021.01]	19/22	 Double cameras [1, 2006.01, 2021.01]
17/26	Holders for containing light-sensitive material and desired to be inserted within the common (helders for	19/24	• • adapted to be loaded with more than one film, e.g.
	adapted to be inserted within the camera (holders for X-ray films G03B 42/04) [1, 2, 2006.01, 2021.01]		with exposure of one or the other at will [1, 2006.01, 2021.01]
17/28	Locating light-sensitive material within	19/26	with fade-in and fade-out
	camera [1, 2006.01, 2021.01]		effects [4, 2006.01, 2021.01]
17/30	• Locating spools or other rotatable holders of	21/00	Projectors or projection-type viewers; Accessories
17/22	coiled film [1, 2006.01, 2021.01]	41/00	therefor (devices for changing pictures
17/32 17/34	• Locating plates or cut films [1, 2006.01, 2021.01]		G03B 23/00) [1, 2006.01]
17/34	 • • Changing plates or cut films [1, 2006.01, 2021.01] 	21/02	• Multiple-film apparatus [1, 2006.01]

21/04	• • Picture "juke-boxes" [1, 2006.01]	21/64	Means for mounting individual pictures to be The second of the sec
21/06	• affording only episcopic projection [1, 2006.01]		projected, e.g. frame for transparency [1, 2006.01]
21/08 21/10	 affording epidiascopic projection [1, 2006.01] Projectors with built-in or built-on	23/00	Devices for changing pictures in viewing apparatus
21/10	screen [1, 2006.01]		or projectors [1, 2006.01]
21/11	 for microfilm reading [1, 2006.01] 		Note(s)
21/12	 adapted for projection of either still pictures or 		In this group, the following term is used with the
	motion pictures (prolonged exhibition of single frame		meaning indicated:
24 /42	G03B 21/38) [1, 2006.01]		 "picture" means any flat representation,
21/13	 Projectors for producing special effects at the edges of picture, e.g. blurring [1, 2006.01] 		whether transparent or not, e.g. produced by
21/132		23/02	photography, writing, or printing.in which a picture is removed from a stock and
	writing or drawing during action (epidiascopic	23/02	returned to the same stock or another one; Magazines
	projectors G03B 21/08) [1, 2006.01]		therefor [1, 2006.01]
21/134	3 31 3 11	23/04	• • with linear movement [1, 2006.01]
21/14	printing apparatus [1, 2006.01]	23/06	• • with rotary movement [1, 2006.01]
21/14 21/16	Details [1, 2006.01]Cooling; Preventing overheating [1, 2006.01]	23/08	• in which pictures are attached to a movable
21/18	 Fire preventing or extinguishing [1, 2006.01] 	22/10	carrier [1, 2006.01]
21/20	 Lamp housings [1, 2006.01] 	23/10 23/12	drum or disc carrier [1, 2006.01]linear strip carrier [1, 2006.01]
21/22	 Soundproof bodies [1, 2006.01] 	23/14	• Carriers operable to move pictures into, and out of,
21/26	Projecting separately subsidiary matter	25/14	the projection or viewing position and carrying one
	simultaneously with main image [1, 2006.01]		or two pictures only in a removable manner
21/28	• • Reflectors in projection beam [1, 2006.01]		(G03B 23/18 takes precedence) [1, 4, 2006.01]
21/30	• • adapted to collapse or fold, e.g. for	23/18	• with fade-in and fade-out effects [4, 2006.01]
21/32	portability [1, 2006.01]Details specially adapted for motion-picture	25/00	Viewers, other than projection viewers, giving
21/32	projection (with film moving continuously through		motion-picture effects by persistence of vision, e.g.
	the gate G03B 41/02) [1, 2006.01]		zoetrope [1, 2006.01]
21/34	• • • Change-over arrangements [1, 2006.01]	25/02	• with interposed lenticular or line screen [1, 2006.01]
21/36	• • • Fades, dissolves, or wipes [1, 2006.01]	27/00	Photographic printing apparatus [1, 2006.01]
21/38	• • • Prolonged exhibition of single	27/02	• Exposure apparatus for contact printing [1, 2006.01]
21 / 40	frame [1, 2006.01]	27/04	Copying apparatus without a relative movement
21/40	 • Eliminating or reducing effect of flicker [1, 2006.01] 		between the original and the light source during
21/42	Preventing damage to film due to abnormal		exposure, e.g. printing frame or printing box [1, 2006.01]
	operation of projector [1, 2006.01]	27/06	• • • for automatic repeated copying of the same
21/43	• • • Driving mechanisms [1, 2006.01]	27,00	original [1, 2006.01]
21/44	• • • Mechanisms transmitting motion to film-	27/08	• • for automatic copying of several originals one
	strip feed; Mechanical linking of shutter and intermittent feed [1, 2006.01]		after the other, e.g. for copying cinematograph
21/46	• • • • affording adjustment for	27/10	film [1, 2006.01]
,	framing [1, 2006.01]	27/10	 Copying apparatus with a relative movement between the original and the light source during
21/48	 • • • for altering frame speed; for regulating 		exposure [1, 2006.01]
	constancy of film speed [1, 2006.01]	27/12	• • for automatic repeated copying of the same
21/50	• • Control devices operated by the film strip		original [1, 2006.01]
21/52	during the run [1, 2006.01] • • • by prepared film [1, 2006.01]	27/14	• • Details [1, 2006.01]
21/53	 Means for automatic focusing, e.g. to compensate 	27/16	• • Illumination arrangements, e.g. positioning of lamps, positioning of reflectors (controlling the
21700	thermal effects [5, 2006.01]		exposure G03B 27/72) [1, 2006.01]
21/54	• Accessories [1, 2006.01]	27/18	Maintaining or producing contact pressure
21/56	• • Projection screens [1, 2006.01]		between original and light-sensitive
21/58	• • collapsible, e.g. foldable; of variable		material [1, 2006.01]
04 /505	area [1, 2006.01, 2014.01]	27/20	• • • by using a vacuum or fluid
21/585 21/60	• • • • Inflatable screens [2014.01]• • • characterised by the nature of the	27/22	pressure [1, 2006.01] • • • by stretching over a curved
21/00	surface [1, 2006.01, 2014.01]	21122	surface [1, 2006.01]
21/602	e • • • Lenticular screens (G03B 21/625 takes	27/24	• • Separating the original from the
04 /60 /	precedence) [2014.01]	27/26	print [1, 2006.01]
21/604 21/606		27/26 27/28	• Cooling [1, 2006.01]• Edge-masking devices [1, 2006.01]
21/608	~ -	27/28	 edge-masking devices [1, 2006.01] adapted to be combined with processing
21/60	• • • • Translucent screens [1, 2006.01, 2014.01]	_,,50	apparatus [1, 2006.01]
21/625		27/32	 Projection printing apparatus, e.g. enlarger, copying
. =			camera [1, 2006.01]

27/34

• • Means for automatic focusing

27/34		therefor [1, 4, 2006.01] • by mechanical connections, e.g. by cam, by	30/00	imaging units, specially adapted for being embedded in other devices, e.g. mobile phones or vehicles [2021.01]
		linkage [1, 2006.01]		Note(s) [2021.01]
27/38	• •	 embodying screws with non-uniform pitch [1, 2006.01] 		1. When classification is made in this main group,
27/40		 adapted for use with lenses of different focal length [1, 2006.01] 		further classification should be made in other groups of subclass G03B or in group G02B 7/00
27/42	• •	for automatic sequential copying of the same original (G03B 27/34, G03B 27/53 take precedence) [1, 4, 2006.01]		according to the functional aspects of the camera.The classification symbol of this group is not listed first when assigned to patent documents.
27/44		for multiple copying of the same original at the		
		same time (G03B 27/34, G03B 27/53 take precedence) [1, 4, 2006.01]	Special to	<u>echniques</u>
27/46	• •	for automatic sequential copying of different originals, e.g. enlargers, roll film printers (G03B 27/34, G03B 27/50, G03B 27/53 take	31/00	Associated working of cameras or projectors with sound-recording or sound-reproducing means [1, 2006.01, 2021.01]
27/465		precedence) [1, 4, 2006.01]at different positions of the same strip, e.g.	31/02	 in which sound track is on a moving-picture film [1, 2006.01, 2021.01]
		microfilm [4, 2006.01]	31/04	• in which sound track is not on, but is synchronised
27/47	• •	 at different positions of the same sheet, e.g. microfiche [4, 2006.01] 	21 /00	with, a moving-picture film [1, 2006.01, 2021.01]
27/475		• copying cinematographic film (G03B 27/48 takes precedence) [4, 2006.01]	31/06 31/08	 in which sound track is associated with successively-shown still pictures [1, 2006.01, 2021.01] with fade-in and fade-out
27/48		with original in the form of a film strip moving continuously and compensation for consequent	31/00	effects [4, 2006.01, 2021.01]
		image movement [1, 2006.01]	33/00	Colour photography, other than mere exposure or
27/50	• •	with slit or like diaphragm moving over original for progressive exposure (G03B 27/34 takes		projection of a colour film (printing apparatus G03B 27/00; stereoscopic colour photography
		precedence) [1, 4, 2006.01]		G03B 35/00) [1, 2006.01]
27/52		Details [1, 2006.01]	33/02	• by two-colour separation records, e.g. red-aspect and
27/53	• •	 Automatic registration or positioning of originals with respect to each other or the 		white complete records; using Land effect [1, 2006.01]
		photosensitive layer [4, 2006.01]	33/04	• by four or more separation records [1, 2006.01]
27/54	• •	 Lamp housings; Illuminating means [1, 2006.01] 	33/06 33/08	 by additive-colour projection apparatus [1, 2006.01] Sequential recording or projection (G03B 33/02,
27/56		Mounting enlarger head on column [1, 2006.01]	337 00	G03B 33/04, G03B 33/06 take precedence) [1, 2006.01]
27/58	• •	 Baseboards, masking frames, or other holders for the sensitive material (G03B 27/53 takes precedence) [1, 4, 2006.01] 	33/10	 Simultaneous recording or projection (G03B 33/02, G03B 33/04, G03B 33/06 take precedence) [1, 2006.01]
27/60		• using a vacuum or fluid pressure [1, 2006.01]	33/12	 using beam-splitting or beam-combining systems, e.g. dichroic mirrors [1, 2006.01]
27/62		 Holders for the original (G03B 27/53 takes precedence) [1, 4, 2006.01] 	33/14	• • using lenticular screens (integral with film G03C) [1, 2006.01]
27/64		using a vacuum or fluid pressure [1, 2006.01]	33/16	• • using colour-pattern screens (integral with film G03C) [1, 2006.01]
27/66		op	35/00	Stereoscopic photography [1, 2006.01, 2021.01]
27/68		screens [1, 2006.01] • Introducing or correcting distortion, e.g. in	35/00 35/02	 by sequential recording [1, 2006.01, 2021.01]
۷//UO	•	connection with oblique projection [1, 2006.01]	35/04	• • with movement of beam-selecting members in a
27/70		• Reflectors in printing beam [1, 2006.01]		system defining two or more viewpoints [1, 2006.01, 2021.01]
27/72	C	Controlling or varying light intensity, spectral composition, or exposure time in photographic	35/06	 with axial movement of lens or gate between exposures [1, 2006.01, 2021.01]
27/73	_	orinting apparatus [1, 2006.01] Controlling exposure by variation of spectral	35/08	 by simultaneous recording [1, 2006.01, 2021.01]
_,,,,		composition, e.g. multicolor printers [3, 2006.01]	35/10	 having single camera with stereoscopic-base-
27/74	• •	Positioning exposure meters in the apparatus [1, 2006.01]	35/12	defining system [1, 2006.01, 2021.01]involving recording of different viewpoint images
27/80	• •	in dependence upon automatic analysis of the original (G03B 27/73 takes		in different colours on a colour film [1, 2006.01, 2021.01]
		precedence) [3, 2006.01]	35/14	 Printing apparatus specially adapted for conversion between different types of record (G03B 42/08 takes
29/00		nbinations of cameras, projectors or photographic		precedence) [1, 4, 2006.01, 2021.01]
	_	nting apparatus with non-photographic non-optical aratus, e.g. clocks or weapons; Cameras having the	35/16	 by sequential viewing [1, 2006.01, 2021.01]
	sha	pe of other objects (combinations with flash aratus G03B 15/03) [1, 2006.01, 2021.01]	35/18	• by simultaneous viewing [1, 2006.01, 2021.01]

30/00

Camera modules comprising integrated lens units and

35/20 35/22	 using two or more projectors [1, 2006.01, 2021.01] using single projector with stereoscopic-base- 	41/00	Special photographic techniques not covered by groups G03B 31/00-G03B 39/00; Apparatus therefor [1, 2, 2006.01, 2021.01]
35/24	defining system [1, 2006.01, 2021.01]	41/02	 using non-intermittently-running film [1, 2006.01, 2021.01]
33/24	 using apertured or refractive resolving means on screen or between screen and eye [1, 2006.01, 2021.01] 	41/04 41/06	 with optical compensator [1, 2006.01, 2021.01] with rotating reflecting
35/26	 using polarised or coloured light for separating different viewpoint images [1, 2006.01, 2021.01] 	41/08	member [1, 2006.01, 2021.01] • • • with rotating transmitting member [1, 2006.01, 2021.01]
37/00	Panoramic or wide-screen photography; Photographing extended surfaces, e.g. for surveying;	41/10	 • • • with oscillating reflecting member [1, 2006.01, 2021.01]
	Photographing internal surfaces, e.g. of pipe [1, 2006.01, 2021.01]	41/12	 • with oscillating transmitting member [1, 2006.01, 2021.01]
37/02	 with scanning movement of lens or camera [1, 2006.01, 2021.01] 	41/14	 Overcoming image movement by brief flashes of light [1, 2006.01, 2021.01]
37/04	 with cameras or projectors providing touching or overlapping fields of view [1, 2006.01, 2021.01] 	42/00	Obtaining records using waves other than optical
37/06	 involving anamorphosis (G03B 37/02, G03B 37/04 take precedence) [1, 2006.01, 2021.01] 		waves; Visualisation of such records by using optical means [4, 2006.01, 2021.01]
39/00	High-speed photography [1, 2006.01, 2021.01]	42/02 42/04	 using X-rays [4, 2006.01, 2021.01] Holders for X-ray films [4, 2006.01, 2021.01]
39/02	 using stationary plate or film (G03B 39/06 takes precedence) [1, 2006.01, 2021.01] 	42/06	 using ultrasonic, sonic or infrasonic waves [4, 2006.01, 2021.01]
39/04	 using moving plate or film (G03B 39/06 takes precedence) [1, 2006.01, 2021.01] 	42/08	 Visualisation of records by optical means [4, 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] 		means [+, 2000,01, 2021,01]

G03C 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)

43/00

43/02

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

PHOTOGRAPHIC PROCESSES	
General	
For colour photography	7/00
For diffusion transfer processes	
For stereo-photography and the like	9/00
PHOTOSENSITIVE COMPOSITIONS AND MATERIALS	
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]

Testing correct operation of photographic apparatus or

parts thereof [1, 2006.01, 2021.01]

• Testing shutters [1, 2006.01, 2021.01]

- 1/035 characterised by the crystal form or composition, e.g. mixed grain **[5, 2006.01]**
- 1/04 with macromolecular additives; with layer-forming substances [1, 5, 2006.01]
- 1/043 • Polyalkylene oxides; Polyalkylene sulfides; Polyalkylene selenides; Polyalkylene tellurides **[5, 2006.01]**

8

1/047	•	•	 Proteins, e.g. gelatine derivatives; Hydrolysis or extraction products of proteins [5, 2006.01] 	1/50	•	Compositions containing noble metal salts other than silver salts, as photosensitive
1/053						substances [1, 5, 2006.01]
1/033	٠	•	carbon-to-carbon unsaturated bonds, e.g. vinyl	1/52		Compositions containing diazo compounds as
				1/32	·	
4.100			polymers [5, 2006.01]			photosensitive substances (G03C 1/64 takes
1/06	•	•	with non-macromolecular additives (G03C 1/04	4 /= 4		precedence) [1, 5, 2006.01]
			takes precedence) [1, 5, 2006.01]	1/54		• Diazonium salts or diazo anhydrides [1, 2006.01]
1/07	•	•	 Substances influencing grain growth during 	1/56	•	 Diazo sulfonates [1, 2006.01]
			silver salt formation [5, 2006.01]	1/58	•	 Coupling substances therefor [1, 5, 2006.01]
1/08	•	•	 Sensitivity-increasing 	1/60	•	• with macromolecular additives [1, 5, 2006.01]
			substances [1, 5, 2006.01]	1/61		• with non-macromolecular additives [5, 2006.01]
1/09	•	•	 Noble metals or mercury; Salts or 	1/62		Metal compounds reducible to
			compounds thereof; Sulfur, selenium or	17 02		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	1/04		photosensitive substances [1, 5, 2006.01]
			take precedence) [5, 2006.01]	1/66		
1/10	•	•	• • Organic substances [1, 2006.01]	1/00	·	Compositions containing chromates as photosensitive
1/12	•	•	• • • Methine or polymethine dyes [1, 2006.01]	1./07		substances [1, 5, 2006.01]
1/14			• • • with an odd number of CH	1/67	•	Compositions containing cobalt compounds as
1/11			groups [1, 2006.01]	4.000		photosensitive substances [5, 2006.01]
1/16			• • • • with one CH group [1, 2006.01]	1/675	•	Compositions containing polyhalogenated
						compounds as photosensitive substances [5, 2006.01]
1/18	•	•	• • • • with three CH groups [1, 2006.01]	1/685	•	Compositions containing spiro-condensed pyran
1/20	•	•	• • • • with more than three CH			compounds or derivatives thereof, as photosensitive
			groups [1, 2006.01]			substances [5, 2006.01]
1/22	•	•	• • • with an even number of CH	1/695	•	- F
			groups [1, 2006.01]			substances [5, 2006.01]
1/24	•	•	• • • Styryl dyes [1, 2006.01]	1/705	•	Compositions containing chalcogenides, metals or
1/26	•	•	• • • Polymethine chain forming part of a			alloys thereof, as photosensitive substances, e.g.
			heterocyclic ring [1, 2006.01]			photodope systems [5, 2006.01]
1/28	•	•	 together with supersensitising 	1/72	•	Photosensitive compositions not covered by groups
			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]
			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;
1/31			• Plasticisers [2, 2006.01]	1//4	·	Drying processes therefor (G03C 1/496 takes
						precedence) [1, 2, 5, 2006.01]
1/32		•	• Matting agents [1, 2006.01]	1 /76	_	
1/33	•	•	• Spot-preventing agents [2, 2006.01]	1/76	•	Photosensitive materials characterised by the base or
1/34	•	•	Fog-inhibitors; Stabilisers; Agents inhibiting	1 /705		auxiliary layers [1, 5, 2006.01]
			latent image regression [1, 5, 2006.01]	1/765	•	• characterised by the shape of the base, e.g.
1/35	•	•	 Antiplumming agents, i.e. antibronzing agents; 	4 /88		arrangement of perforations, jags [5, 2006.01]
			Toners [2, 5, 2006.01]	1/77		• the base being of metal [5, 2006.01]
1/36	•	•	Descriptions (arrest positive entaisions	1/775		 the base being of paper [5, 2006.01]
			G03C 1/485) [1, 5, 2006.01]	1/785	•	• • translucent [5, 2006.01]
1/37	•	•	• Antiseptic agents [2, 2006.01]	1/79	•	 Macromolecular coatings or impregnations
1/38	•	•	Dispersants; Agents facilitating			therefor, e.g. varnishes [5, 2006.01]
			spreading [1, 5, 2006.01]	1/795	•	 the base being formed of macromolecular
1/40	•	•	 Dyestuffs not covered by groups G03C 1/08- 			substances (G03C 1/775 takes
			G03C 1/38 or G03C 1/42 [1, 5, 2006.01]			precedence) [5, 2006.01]
1/42			• Developers or their precursors [1, 5, 2006.01]	1/805	•	 characterised by stripping layers or stripping
1/43						means [5, 2006.01]
17 10			covered by groups G03C 1/07-	1/81	•	• characterised by anti-coiling means [5, 2006.01]
			G03C 1/42 [5, 2006.01]	1/815		 characterised by means for filtering or absorbing
1/46			having more than one photosensitive	-,		ultra-violet light, e.g. optical bleaching agents (for
1/40			layer [1, 2006.01]			photoprinting G03C 5/10; for intensifying X-ray
1/485			Direct positive emulsions [2, 5, 2006.01]			images G03C 5/17) [5, 2006.01]
				1/825		• characterised by antireflecting means or visible-
1/49	•	•	Print-out and photodevelopable	1, 323		light filtering means, e.g. anti-
1 / 400			emulsions [2, 5, 2006.01]			halation [5, 2006.01]
1/492			Photosoluble emulsions [5, 2006.01]	1/83		 Organic dyestuffs therefor [5, 2006.01]
1/494	•		lver salt compositions other than silver halide			
			nulsions; Photothermographic systems [5, 2006.01]	1/835	•	Macromolecular substances therefor, e.g. mordants [5, 2006 01]
1/496	•	•	Binder-free compositions, e.g.	1 /05		mordants [5, 2006.01]
			evaporated [5, 2006.01]	1/85	•	• characterised by antistatic additives or
1/498	•	•	Photothermographic systems, e.g. dry	4.400		coatings [5, 2006.01]
			silver [5, 2006.01]	1/89	•	Macromolecular substances Macromolecular substances
						therefor [5, 2006.01]

1/91	• • characterised by subbing layers or subbing	5/50	• • Re
1/93	means [5, 2006.01] • • • Macromolecular substances		(G(pre
1/95	therefor [5, 2006.01] • rendered opaque or writable, e.g. with inert	5/56	 Process by gro
	particulate additives (G03C 1/775 takes precedence) [5, 2006.01]	5/58	(G030 • Proces
3/00	Packages of films for inserting into cameras, e.g. roll-	5/60	deposi
	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]	7/00	Multicol therefor
3/02	• Photographic roll-films with paper strips [1, 2006.01]		(diffusion G03C 8/0
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	7/02 7/04	 Direct Prepai materi
5/02	G03C 9/00) [1, 4, 5, 2006.01] • Sensitometric processes, e.g. determining sensitivity,		therefo materi
	colour sensitivity, gradation, graininess, density;	7/06	• • Ma
5/04	Making sensitometric wedges [1, 2006.01] • Photo-taking processes [1, 2006.01]	7/08	• • • •
5/06	• • Travelling-mask processes [1, 2006.01]	7/10	
5/08	• Photoprinting (G03C 5/18 takes precedence);	//10	
	Processes or means for preventing photoprinting [1, 3, 5, 2006.01]	7/12	• • •
5/10	 Reflex-printing; Photoprinting using fluorescent or phosphorescent means [1, 5, 2006.01] 	7/14	Additi thereformateri
5/12	 Cinematographic processes of taking pictures or printing [1, 2006.01] 	7/18	Processubtra
5/14	• • combined with sound-recording [1, 2006.01]		colour
5/16	• X-ray, infra-red, or ultra-violet ray processes [1, 2006.01]	7/20	Subtra sensiti
5/17	• using screens to intensify X-ray images [2, 4, 2006.01]	7/22	bipackSubtra
5/18	 Diazo-type processes, e.g. thermal development, or agents therefor [1, 3, 5, 2006.01] 		therefo materi
5/20	• • Reflex-printing [1, 2006.01]	7/24	• • con
5/22	 Direct chromate processes, i.e. without preceding silver picture, or agents therefor [1, 5, 2006.01] 	7/25	• • Dy
5/26	 Processes using silver-salt-containing photosensitive materials or agents therefor (physical development G03C 5/58) [1, 5, 2006.01] 	7/26	 Silver proces
5/28	• • Cinematographic-film processes [1, 5, 2006.01]		preced
5/29	 Development processes or agents therefor (G03C 5/38, G03C 5/50 take 	7/28	 Silver Preparent
= /D0	precedence) [5, 2006.01]	T /20	materi
5/30	• • Developers [1, 2006.01]• • Additives other than developers [5, 2006.01]	7/29 7/20	• • Az
5/305 5/31	• • • Additives other than developers [5, 2006.01]• • • Regeneration; Replenishers [5, 2006.01]	7/30	 Colou Mater
5/315	• • Tanning development [5, 2006.01]		materi
5/32	 Latensification; Desensitising [1, 5, 2006.01] 	7/305	• • Sul
5/38	 Fixing; Developing-fixing; Hardening-fixing (bleach-fixing G03C 5/44) [1, 5, 2006.01] 		age
5/39	• • • Stabilising, i.e. fixing without washing out [2, 5, 2006.01]	7/32	• • Col
5/395	 Regeneration of photographic processing agents other than developers; Replenishers therefor [4, 5, 2006.01] 	7/327	G0 • • •]
5/40	 Chemically transforming developed images (G03C 5/50 takes precedence) [1, 5, 2006.01] 	7/333	• • • (
5/42	• • Reducing; Intensifying [1, 5, 2006.01]	7/34	• • • (
T / 1 1	Dleaching Dleach fiving [1 5 2006 01]		(

Bleaching; Bleach-fixing [1, 5, 2006.01]

• • Toning [1, 5, 2006.01]

• • • Mordanting [1, 5, 2006.01]

5/44

5/46

5/50 • Reversal development; Contact processes (G03C 5/315, G03C 8/00 take precedence) [1, 5, 2006.01]

5/56 • Processes using photosensitive compositions

- Processes using photosensitive compositions covered 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]
- 7/04 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 • Coloured coupling substances, e.g. for the correction of the coloured image [5, 2006.01]
- 7/34 • Couplers containing phenols (G03C 7/327, G03C 7/333 take precedence) [1, 5, 2006.01]
- 7/36 • Couplers containing compounds with active methylene groups (G03C 7/327, G03C 7/333 take precedence) [1, 5, 2006.01]

7/38	• • • • in rings [1, 5, 2006.01]	8/32	 Development processes or agents therefor
7/384	• • • • in pyrazolone rings [5, 2006.01]		(G03C 8/18 takes precedence) [5, 2006.01]
7/388	• • Processes for the incorporation in the emulsion of substances liberating photographically active	8/34	 Containers for the agents (G03C 8/48, G03B 17/50 take precedence) [5, 2006.01]
	agents or colour-coupling substances; Solvents	8/36	• • Developers [5, 2006.01]
7/392	therefor [5, 2006.01] • • Additives (G03C 7/305, G03C 7/32 take	8/38	• • containing viscosity increasing substances [5, 2006.01]
	precedence) [5, 2006.01]	8/40	• • Development by heat [5, 2006.01]
7/396	• • • Macromolecular additives [5, 2006.01]	8/42	• Structural details [5, 2006.01]
7/407	 Development processes or agents therefor [5, 2006.01] 	8/44	• • Integral units, i.e. the image-forming section not being separated from the image-receiving
7/413	• • • Developers [5, 2006.01]		section [5, 2006.01]
7/42	• • Bleach-fixing or agents therefor [3, 5, 2006.01]	8/46	• • • characterised by the trapping means or by gas
7/44	• • Regeneration; Replenishers (G03C 7/42 takes	0 / 40	releasing means [5, 2006.01]
7/46	precedence) [5, 2006.01]Subtractive colour processes not covered by group	8/48	• • • characterised by substances used for masking the image-forming section [5, 2006.01]
	G03C 7/26; Materials therefor; Preparing or processing such materials [5, 2006.01]	8/50	 Peel-apart units, i.e. the image-forming section being separated from the image-receiving section [5, 2006.01]
8/00	Diffusion transfer processes or agents therefor; Photosensitive materials for such	8/52	 Bases or auxiliary layers; Substances therefor [5, 2006.01]
	processes [5, 2006.01]	8/54	• • • Timing layers [5, 2006.01]
8/02	 Photosensitive materials characterised by the image- forming section [5, 2006.01] 	8/56	• • • Mordant layers [5, 2006.01]
8/04	 the substances transferred by diffusion consisting 	9/00	Stereo-photographic or similar processes [1, 2006.01]
	of inorganic compounds or of organo-metallic	9/02	• Parallax-stereogram [1, 2006.01]
	compounds derived from photosensitive noble	9/04	• Vectographic-image [1, 2006.01]
0.406	metals [5, 2006.01]	9/06	• Anaglyph [1, 2006.01]
8/06	• • • Silver salt diffusion transfer [5, 2006.01]	9/08	 producing three-dimensional images [1, 2006.01]
8/08	• • the substances transferred by diffusion consisting		
	of organic compounds (G03C 8/04 takes precedence) [5, 2006.01]	11/00	Auxiliary processes in photography (characterised by apparatus used G03D 15/00) [1, 2006.01]
8/10	• • • of dyes or their precursors [5, 2006.01]	11/02	 Marking or applying of text [1, 2006.01]
8/12	• • • characterised by the release	11/04	• Retouching [1, 2006.01]
0/14	mechanism [5, 2006.01]	11/06	 Smoothing; Renovating; Roughening; Matting;
8/14	• • • • • Oxidation of the chromogenic substance [5, 2006.01]		Cleaning; Lubricating; Flame retardant treatments [1, 5, 2006.01]
8/16	• • • • initially diffusable in alkaline environment [5, 2006.01]	11/08	 Varnishing, e.g. application of protective layers on finished photographic prints [1, 5, 2006.01]
8/18	• • • • • • Dye developers [5, 2006.01]	11/10	• • for protection from ultra-violet light [1, 2006.01]
8/20	• • • • • initially non-diffusable in alkaline environment [5, 2006.01]	11/12	• Stripping or transferring intact photographic layers [1, 2006.01]
8/22	Reduction of the chromogenic	11/14	• Pasting; Mounting [1, 2006.01]
	substance [5, 2006.01]	11/16	• Drying [1, 2006.01]
8/24	 Photosensitive materials characterised by the image- 	11/18	• Colouring [1, 2006.01]
	receiving section [5, 2006.01]	11/10	with powdered or molten colours [1, 2006.01]
8/26	 Image-receiving layers (G03C 8/52 takes 	11/20	Preparing plates or films for the manufacture of
8/28	precedence) [5, 2006.01] • • containing development nuclei or compounds	11/22	photographic negatives by non-photographic
	forming such nuclei [5, 2006.01]	11/04	processes [1, 2006.01]
8/30	 Additive processes using colour screens; Materials therefor; Preparing or processing such 	11/24	 Removing emulsion from waste photographic material; Recovery of photosensitive substances [1, 5, 2006.01]
	materials [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	
Other apparatus and accessories	
APPARATUS FOR TREATING PROCESSED MATERIAL	
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]	10.00	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]		
0./00	D166 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17/00	Dark-room arrangements not provided for in the
9/00	Diffusion development apparatus [1, 2006.01]		other groups of this subclass; Portable dark-
9/02	• using rupturable ampoules of liquid [1, 2006.01]		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 ultra-violet [EUV] masks; Preparation thereof [2012.01]
- 1/24 • Reflection masks; Preparation thereof [2012.01]

- 1/26 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]
- 1/36 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]

1/40	 Electrostatic discharge [ESD] related features, e.g. antistatic coatings or a conductive metal layer 	5/16	• using grey half-tone screens [1, 2006.01]
	around the periphery of the mask	5/18 5/20	using colour half-tone screens [1, 2006.01]using screens for gravure printing [1, 2006.01]
1/42	 substrate [2012.01] • Alignment or registration features, e.g. alignment 	5/22	 combining several screens; Elimination of
	marks on the mask substrates [2012.01]	5/24	moire [1, 2006.01] • by multiple exposure, e.g. combined processes for
1/44	 Testing or measuring features, e.g. grid patterns, focus monitors, sawtooth scales or notched scales [2012.01] 	7/00	line photo and screen [1, 2006.01] Photomechanical a g photolithographic production
1/46	 • Antireflective coatings [2012.01] 	7/00	Photomechanical, e.g. photolithographic, production of textured or patterned surfaces, e.g. printed
1/48	• • Protective coatings [2012.01]		surfaces; Materials therefor, e.g. comprising
1/50	 Mask blanks not covered by groups G03F 1/20- G03F 1/26; Preparation thereof [2012.01] 		photoresists; Apparatus specially adapted therefor (using photoresist structures for special production
1/52	• Reflectors [2012.01]		processes, <u>see</u> the relevant places, e.g. B44C, H01L, e.g.
1/54	Absorbers, e.g. opaque materials [2012.01]	= /00 4	H01L 21/00, H05K) [1, 3, 5, 2006.01]
1/56	• • Organic absorbers, e.g. photo-resists [2012.01]	7/004	• Photosensitive materials (G03F 7/12, G03F 7/14 take precedence) [5, 2006.01]
1/58	 having two or more different absorber layers, e.g. stacked multilayer absorbers [2012.01] 	7/008	 • Azides (G03F 7/075 takes precedence) [5, 2006.01]
1/60	• Substrates [2012.01]	7/012	
1/62	 Pellicles or pellicle assemblies, e.g. having 	77012	additives, e.g. binders [5, 2006.01]
	membrane on support frame; Preparation thereof [2012.01]	7/016	• • Diazonium salts or compounds (G03F 7/075 takes precedence) [5, 2006.01]
1/64	• • characterised by the frames, e.g. structure or	7/021	• • Macromolecular diazonium compounds;
1/66	material thereof [2012.01] • Containers specially adapted for masks, mask blanks	77021	Macromolecular additives, e.g. binders [5, 2006.01]
	or pellicles; Preparation thereof [2012.01]	7/022	• • Quinonediazides (G03F 7/075 takes
1/68	 Preparation processes not covered by groups G03F 1/20-G03F 1/50 [2012.01] 		precedence) [5, 2006.01]
1/70	Adapting basic layout or design of masks to	7/023	Macromolecular quinonediazides;
_,	lithographic process requirements, e.g. second		Macromolecular additives, e.g. binders [5, 2006.01]
	iteration correction of mask patterns for	7/025	Non-macromolecular photopolymerisable
4 /50	imaging [2012.01]	,,023	compounds having carbon-to-carbon triple bonds,
1/72 1/74	• Repair or correction of mask defects [2012.01]		e.g. acetylenic compounds (G03F 7/075 takes
1//4	• • by charged particle beam [CPB], e.g. focused ion beam [2012.01]	= /00=	precedence) [5, 2006.01]
1/76	Patterning of masks by imaging [2012.01]	7/027	Non-macromolecular photopolymerisable compounds having carbon-to-carbon double
1/78	• • • by charged particle beam [CPB], e.g. electron beam [2012.01]		bonds, e.g. ethylenic compounds (G03F 7/075 takes precedence) [5, 2006.01]
1/80	• • Etching [2012.01]	7/028	 with photosensitivity-increasing substances,
1/82	Auxiliary processes, e.g. cleaning [2012.01]	.,,,,,	e.g. photoinitiators [5, 2006.01]
1/84	• • • Inspecting [2012.01]	7/029	• • • • Inorganic compounds; Onium compounds;
1/86	• • • by charged particle beam [CPB] [2012.01]		Organic compounds having hetero atoms
1/88	 prepared by photographic processes for producing originals simulating relief [2012.01] 		other than oxygen, nitrogen or sulfur [5, 2006.01]
1/90	 prepared by montage processes [2012.01] 	7/031	• • • • Organic compounds not covered by group
1/92	 prepared from printing surfaces [2012.01] 	7/032	G03F 7/029 [5, 2006.01] • • with binders [5, 2006.01]
3/00	Colour separation; Correction of tonal value	7/032	• • • the binders being polymers obtained by
3700	(photographic copying apparatus in general	7,7000	reactions only involving carbon-to-carbon
	G03B) [1, 2006.01]		unsaturated bonds, e.g. vinyl
3/02	• by retouching [1, 2006.01]		polymers [5, 2006.01]
3/04	• by photographic means [1, 2006.01]	7/035	• • • the binders being polyurethanes [5, 2006.01]
3/06	• • by masking [1, 2006.01]	7/037	• • • the binders being polyamides or polyimides [5, 2006.01]
3/08	• by photoelectric means [1, 2006.01]	7/038	Macromolecular compounds which are rendered
3/10	 Checking the colour or tonal value of separation negatives or positives [1, 2006.01] 	77030	insoluble or differentially wettable (G03F 7/075 takes precedence; macromolecular azides
5/00	Screening processes; Screens therefor [1, 2006.01]		G03F 7/012; macromolecular diazonium
5/02	• by projecting methods (cameras G03B) [1, 2006.01]	7/020	compounds G03F 7/021) [5, 2006.01]
5/04	• changing the screen effect [1, 2006.01]	7/039	 Macromolecular compounds which are photodegradable, e.g. positive electron resists
5/06	• changing the diaphragm effect [1, 2006.01]		(G03F 7/075 takes precedence; macromolecular
5/08	• using line screens [1, 2006.01]		quinonediazides G03F 7/023) [5, 2006.01]
5/10	• using cross-line screens [1, 2006.01]	7/04	• • Chromates (G03F 7/075 takes
5/12	 using other screens, e.g. granulated screen [1, 2006.01] 	= / 0.0	precedence) [1, 5, 2006.01]
5/14	• by contact methods [1, 2006.01]	7/06	• Silver salts (G03F 7/075 takes precedence) [1, 5, 2006.01]
- · - ·	y k-y j		precedence, [1, 0, 2000.01]

7/07 7/075 7/085	 • used for diffusion transfer [5, 2006.01] • Silicon-containing compounds [5, 2006.01] • Photosensitive compositions characterised by adhesion-promoting non-macromolecular additives (G03F 7/075 takes precedence) [5, 2006.01] 	7/213 7/22	 Exposing with the same light pattern different positions of the same surface at the same time (G03F 7/207 takes precedence) [4, 2006.01] Exposing sequentially with the same light pattern different positions of the same surface (G03F 7/207 takes precedence) [1, 4, 2006.01]
7/09	 characterised by structural details, e.g. supports, 	7/23	• • • Automatic means therefor [4, 2006.01]
	auxiliary layers (supports for printing plates in	7/24	• • Curved surfaces [1, 2006.01]
7/095	 general B41N) [5, 2006.01] having more than one photosensitive layer (G03F 7/075 takes precedence) [5, 2006.01] 	7/26	 Processing photosensitive materials; Apparatus therefor (G03F 7/12-G03F 7/24 take precedence) [3, 5, 2006.01]
7/105	 • having substances, e.g. indicators, for forming visible images [5, 2006.01] 	7/28	• • for obtaining powder images (G03F 3/10 takes precedence) [5, 2006.01]
7/11	 • having cover layers or intermediate layers, e.g. subbing layers [5, 2006.01] 	7/30	 Imagewise removal using liquid means [5, 2006.01]
7/115	 • having supports or layers with means for obtaining a screen effect or for obtaining better 	7/32	 • • Liquid compositions therefor, e.g. developers [5, 2006.01]
7/12	contact in vacuum printing [5, 2006.01]Production of screen printing forms or similar	7/34	• • Imagewise removal by selective transfer, e.g. peeling away [5, 2006.01]
7/14 7/16	 printing forms, e.g. stencils [1, 2006.01] Production of collotype printing forms [1, 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]
//10	 Coating processes; Apparatus therefor (applying coatings to base materials in general B05; applying photosensitive compositions to the base for 	7/38	 Treatment before imagewise removal, e.g. prebaking [5, 2006.01]
7/18	photographic purposes G03C 1/74) [1, 2006.01]Coating curved surfaces [1, 2006.01]	7/40	 Treatment after imagewise removal, e.g. baking [5, 2006.01]
7/20	Exposure; Apparatus therefor (photographic printing	7/42	• • Stripping or agents therefor [5, 2006.01]
	apparatus for making copies G03B 27/00) [1, 4, 2006.01]	9/00	Registration or positioning of originals, masks,
7/207	• • 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]	9/02	frames, photographic sheets or textured or patterned surfaces, e.g. automatically (G03F 7/22 takes precedence; preparation of photographic masks G03F 1/00; within photographic printing apparatus for making copies G03B 27/00) [1, 4, 2006.01] • combined with means for automatic focusing (automatic focusing in general G02B 7/09; systems for automatic generation of focusing signals G02B 7/28) [4, 2006.01]

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)

Note(s) [5]

- 1. This subclass covers:
 - 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 <u>does not cover</u>:
 - 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	16/00

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	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]
5/02	purposes G03C) [1, 2006.01] • Charge-receiving layers (G03G 5/153 takes	8/00	Layers covering the final reproduction, e.g. for protecting, for writing thereon [2, 2006.01]
F /022	precedence) [1, 5, 2006.01]	9/00	Developers [1, 5, 2006.01]
5/022	 Layers for surface-deformation imaging, e.g. frost imaging [2, 2006.01] 	9/06	• the developer being electrolytic [1, 2006.01]
5/024	• Photoelectret layers [2, 2006.01]	9/08	 with toner particles [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] 		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,
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] 	9/083 9/087	 classification is made in the last appropriate place. Magnetic toner particles [5, 2006.01] Binders for toner particles [5, 2006.01]
5/04	 Photoconductive layers; Charge-generation layers or charge-transporting layers; Additives therefor; Binders therefor [1, 2, 5, 2006.01] 	9/09 9/093 9/097	 Colouring agents for toner particles [5, 2006.01] Encapsulated toner particles [5, 2006.01] Plasticisers; Charge controlling
5/043	 Photoconductive layers characterised by having two or more layers or characterised by their composite structure [5, 2006.01] 	9/10 9/107	 agents [5, 2006.01] characterised by carrier particles [2, 5, 2006.01] having magnetic components [5, 2006.01]
5/047	• • • characterised by the charge-generation layers	9/113	 having coatings applied thereto [5, 2006.01]
	or charge-transporting layers [5, 2006.01]	9/12	• • in liquid developer mixtures [2, 2006.01]
5/05	 • Organic bonding materials; Methods for coating a substrate with a photoconductive 	9/125	• • • characterised by the liquid [5, 2006.01]
	layer; Inert supplements for use in photoconductive layers [2, 2006.01]	9/13	• • • characterised by polymer components [5, 2006.01]
5/06	• • characterised by the photoconductive material being organic [1, 5, 2006.01]	9/135	• • • characterised by stabiliser or charge-controlling agents [5, 2006.01]
5/07	• • • • Polymeric photoconductive materials [2, 2006.01]	9/16	• Developers not provided for in groups G03G 9/06-G03G 9/135, e.g. solutions, aerosols [2, 2006.01]
5/08	• • • characterised by the photoconductive material being inorganic [1, 2, 5, 2006.01]	9/18	 Differentially-wetting liquid developers [2, 2006.01]
5/082	• • • and not being incorporated in a bonding material, e.g. vacuum deposited [2, 2006.01]	11/00	Selection of substances for use as fixing agents [1, 2006.01]
5/085	 • • • and being incorporated in an inorganic bonding material, e.g. glass-like layers [2, 2006.01] 	13/00	Electrographic processes using a charge pattern (G03G 15/00, G03G 16/00, G03G 17/00 take
5/087	• • • and being incorporated in an organic		precedence) [1, 2, 5, 2006.01]
F /00	bonding material [2, 2006.01]	13/01	• for multicoloured copies [2, 2006.01]
5/09	• • • Sensitisers or activators, e.g. dyestuffs (G03G 5/12 takes precedence) [2, 2006.01]	13/02	 Sensitising, i.e. laying-down a uniform charge (devices for corona discharge <u>per se</u>
5/10	 Bases for charge-receiving or other layers [1, 2006.01] 	13/04	H01T 19/00) [1, 2006.01] • Exposing, i.e. imagewise exposure by optically
5/12	 Recording members for multicolour processes [2, 2006.01] 		projecting the original image on a photoconductive recording material [1, 6, 2006.01]
5/14	• Inert intermediate or cover layers for charge-receiving layers (G03G 5/04 takes precedence) [2, 5, 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,
5/147 5/153	Cover layers [5, 2006.01]Charge-receiving layers combined with additional		G03G 21/06 take precedence) [6, 2006.01]
3/133	photo- or thermo-sensitive, but not photoconductive, layers, e.g. silver-salt layers [5, 2006.01]	13/05	• Imagewise charging, i.e. laying-down a charge in the configuration of an original image using a modulated
5/16	 Layers for recording by changing the magnetic properties, e.g. for Curie-point-writing [3, 2006.01] 	13/054	stream of charged particles, e.g. of corona ions, modulated by a photoconductive control screen bearing a charge pattern or by optically activated charging means (using charging means controlled by electric image signals B41J) [6, 2006.01] • using X-rays, e.g. electroradiography [6, 2006.01]

13/056	• using internal polarisation [2, 6, 2006.01]	15/095	• • Removing excess solid developer [6, 2006.01]
13/06	• Developing [1, 2006.01]	15/10	 using a liquid developer [1, 2006.01]
13/08	 using a solid developer, e.g. powder developer [1, 2006.01] 	15/11	• • Removing excess liquid developer e.g. by heat [6, 2006.01]
13/09	• • using magnetic brush [2, 2006.01]	15/14	for transferring a pattern to a second
13/095	• • • Removing excess solid developer [6, 2006.01]		base [1, 2006.01]
13/10	• • using a liquid developer [1, 2006.01]	15/16	• • of a toner pattern, e.g. a powder
13/11	Removing excess liquid developer, e.g. by		pattern [1, 2006.01]
	heat [6, 2006.01]	15/18	• • of a charge pattern [1, 2006.01]
13/14	 Transferring a pattern to a second base [1, 2006.01] 	15/20	 for fixing, e.g. by using heat [1, 2006.01]
13/16	• • of a toner pattern, e.g. a powder pattern [1, 2006.01]	15/22	• involving the combination of more than one step according to groups G03G 13/02-G03G 13/20
13/18	 of a charge pattern [1, 2006.01] 	4 = 400	(G03G 15/01 takes precedence) [1, 2, 2006.01]
13/20	 Fixing, e.g. by using heat [1, 2006.01] 	15/23	 specially adapted for copying both sides of an original or for copying on both sides of a
13/22	Processes involving the combination of more than		recording or image-receiving material [6, 2006.01]
	one step according to groups G03G 13/02-	15/24	whereby at least two steps are performed
	G03G 13/20 (G03G 13/01 takes precedence) [1, 2, 2006.01]	15/24	simultaneously [2, 2006.01]
13/23	 specially adapted for copying both sides of an 	15/26	 in which the charge pattern is obtained by
13/23	original or for copying on both sides of a		projection of the entire image, i.e. whole-frame
	recording or image-receiving material [6, 2006.01]		projection (G03G 15/04 takes
13/24	whereby at least two steps are performed		precedence) [2, 6, 2006.01]
13/26	simultaneously [2, 2006.01] • for the production of printing plates for non-	15/28	• • in which projection is obtained by line scanning (G03G 15/04 takes precedence) [2, 6, 2006.01]
13/20	xerographic printing processes [2, 2006.01]	15/30	• • • in which projection is formed on a
13/28	Planographic printing plates [2, 2006.01]		drum [2, 2006.01]
13/30	• • Hectographic masters [2, 2006.01]	15/32	 in which the charge pattern is formed dotwise
13/32	• • Relief printing plates [2, 2006.01]		(G03G 15/04, G03G 15/05, G03G 15/34 take
13/34	Editing, i.e. producing a composite image by copying	15/24	precedence) [2, 6, 2006.01]
	one or more original images or parts	15/34	 in which the powder image is formed directly on the recording material [6, 2006.01]
	thereof [6, 2006.01]	15/36	 Editing, i.e. producing a composite image by copying
15/00	Apparatus for electrographic processes using a charge pattern (G03G 16/00, G03G 17/00 take	13/30	one or more original images or parts thereof [6, 2006.01]
	precedence) [1, 2, 5, 2006.01]	16/00	Electrographic processes using deformation of
	Note(s)		thermoplastic layers (layers for surface-deformation
	This group <u>covers</u> also processes in so far as they are		imaging G03G 5/022); Apparatus
	characterised by the use or manipulation of apparatus		therefor [2, 6, 2006.01]
	classifiable <u>per se</u> in this group.	17/00	Electrographic processes using patterns other than
15/01	 for producing multicoloured copies [2, 2006.01] 	17700	charge patterns, e.g. an electric conductivity pattern;
15/02	 for laying down a uniform charge, e.g. for sensitising; 		Processes involving a migration, e.g.
	Corona discharge devices (G03G 15/14 takes		photoelectrophoresis, photoelectrosolography;
.=	precedence) [1, 6, 2006.01]		Processes involving a selective transfer, e.g.
15/04	for exposing, i.e. imagewise exposure by optically		electrophoto-adhesive processes; Apparatus
	projecting the original image on a photoconductive recording material [1, 6, 2006.01]		essentially involving a single such process [1, 5, 2006.01]
15/041	 with variable magnification [6, 2006.01] 	17/02	 with electrolytic development [2, 2006.01]
15/041	with warrable magnification [6, 2006.01] with means for controlling illumination or	17/02	 using photoelectrophoresis [2, 2006.01]
13/043	exposure (G03G 15/041 takes	17/04	 • Apparatus therefor [5, 2006.01]
	precedence) [6, 2006.01]	17/08	 using an electrophoto-adhesive process, e.g. manifold
15/045	with means for charging or discharging distinct	17700	imaging [5, 2006.01]
	portions of the charge pattern on the recording	17/10	 using migration imaging, e.g. photoelectrosolography
	material, e.g. for contrast enhancement or	17710	(G03G 17/04 takes precedence) [5, 2006.01]
	discharging non-image areas (G03G 15/36,		(
	G03G 21/06 take precedence) [6, 2006.01]	19/00	Processes using magnetic patterns; Apparatus
15/047	• • • for discharging non-image areas [6, 2006.01]		therefor [1, 2006.01]
15/05	for imagewise charging, e.g. photoconductive control	21/00	Arrangements not provided for by groups
	screen, optically activated charging means (charging	21/00	G03G 13/00-G03G 19/00, e.g. cleaning, elimination of
	means controlled by electric image signals B41J) [6, 2006.01]		residual charge [2, 2006.01]
15/054	• using X-rays, e.g. electroradiography [6, 2006.01]	21/02	• Counting the number of copies; Billing [6, 2006.01]
15/054	 using internal polarisation [2, 6, 2006.01] 	21/04	Preventing copies being made of an
15/06	• for developing [1, 2006.01]		original [6, 2006.01]
15/08	using a solid developer, e.g. powder	21/06	• Eliminating residual charges from a reusable imaging
_5, 50	developer [1, 2006.01]		member [6, 2006.01]
15/09	• • using magnetic brush [2, 2006.01]	21/08	• • using optical radiation [6, 2006.01]

21/10 21/12 21/14	 Collecting or recycling waste developer [6, 2006.01] Toner waste containers [6, 2006.01] Electronic sequencing control [6, 2006.01] 	21/16 21/18 21/20	 Mechanical means for facilitating the maintenance of the apparatus, e.g. modular arrangements [6, 2006.01] using a processing cartridge [6, 2006.01] Humidity or temperature control [6, 2006.01]
G03H	HOLOGRAPHIC PROCESSES OR APPARATUS (holog G02B 5/32; analogue computers performing mathematical ope 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.				
1/00	Holographic processes or apparatus using light, infra-red, or ultra-violet 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 (G03H 1/26 takes precedence) [2, 2006.01]	1/30 1/32	discrete holograms only [2, 2006.01]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 1/14	 • • Spatial modulation, e.g. ghost imaging [2, 2006.01] • • Temporal modulation, e.g. extending depth of 	3/00	Holographic processes or apparatus using ultrasonic, sonic, or infrasonic waves for obtaining holograms;	
	field or phase compensation for object motion [2, 2006.01]		Processes or apparatus for obtaining an optical image from them (G03H 1/22 takes precedence) [2, 2006.01]	
1/16	 using Fourier transform (G03H 1/12, G03H 1/14 take precedence) [2, 2006.01] 			
1/18	 Particular processing of hologram record carriers, e.g. for obtaining blazed holograms [2, 2006.01] 	5/00	Holographic processes or apparatus using particles 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]	