SECTION G — PHYSICS

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

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.

Subclass index

DETAILS

Common to at least two of cameras, projectors and printers	1/00-5/00
Common to cameras only	
exposure, control thereof	7/00, 9/00
viewfinders, focusing aids	13/00
filters; constructional details, accessories	11/00, 17/00
special procedures for taking photographs	15/00
special procedures for taking photographs	21/00, 23/00
Common to printers only	27/00
APPARATUS	
Cameras	
Projectors, viewers; devices for changing pictures	21/00, 25/00, 23/00
Printing apparatus	27/00
Combinations with other apparatus	29/00
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	

<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]		

- 1/02 Moving film strip by pull on end thereof [1, 2006.01]
- 1/04 • Pull exerted by take-up spool **[1, 2006.01]**
- 1/06 • rotated by lever-operated ratchet and pawl [1, 2006.01]
- 1/08 • rotated by band, chain, rack, or other linear reciprocating operation [1, 2006.01]
- 1/10 • rotated by knob through gearing [1, 2006.01]
- 1/12 • rotated by motor, e.g. spring **[1, 2006.01]**
- 1/14 Special arrangements to ensure constant length of movement of film [1, 2006.01]
- 1/16 • by film-arresting pins **[1, 2006.01]**
- 1/18 Moving film strip by means which act on the film between the ends thereof [1, 2006.01]
- 1/20 • Acting means [1, 2006.01]

- 1/22 • Claws or pins engaging holes in the film **[1, 2006.01]**
- 1/24 • Sprockets engaging holes in the film **[1, 2006.01]**
- 1/26 • Spiked wheels or pins not penetrating the film [1, 2006.01]
- 1/28 • Shuttle feed [1, 2006.01]
- 1/30 • Belt feed [1, 2006.01]
- 1/32 • Friction grippers or rollers **[1, 2006.01]**
- 1/34 • Beaters [1, 2006.01]
- 1/36 • Pneumatic acting means **[1, 2006.01]**
- 1/38 • embodying Geneva motion, e.g. Maltese-cross gearing [1, 2006.01]
- embodying frictional coupling or clutches [1, 2006.01]
- Guiding, framing, or constraining film in desired position relative to lens system [1, 2006.01]

IPC (2020.01), Section G

1/44 · Guides engaging edge of film (gates for control of both exposure time and G03B 1/48) [1, 2006.01] aperture [3, 2006.01] 1/46 Rollers engaging face of film, e.g. barrel, waisted, 7/089 for storage of exposure value in mirror reflex conical (gates G03B 1/48) [1, 2006.01] cameras [3, 2006.01] 1/48 Gates or pressure devices, e.g. plate [1, 2006.01] 7/091 • Digital circuits [3, 2006.01] adjustable or interchangeable, e.g. for different 1/50 7/093 • • • for control of exposure time [3, 2006.01] film widths [1, 2006.01] 7/095 • • • for control of aperture [3, 2006.01] 1/52 Pneumatic pressure devices [1, 2006.01] 7/097 for control of both exposure time and 1/54 Tensioning or loop-maintaining aperture [3, 2006.01] devices [1, 2006.01] • • Arrangement of photoelectric elements in or on 7/099 1/56 • Threading; Loop forming [1, 2006.01] the camera [3, 2006.01, 2014.01] 1/58 • • automatic [1, 2006.01] 7/0993 • • • in the camera **[2014.01]** • Measuring or indicating length of the used or unused 7/0997 • • • • Through the lens [TTL] 1/60 film; Counting number of exposures [1, 2006.01] measuring [2014.01] involving locking or stop-motion • • a servo-motor providing energy to move the 1/62 7/10 devices [1, 2006.01] setting member [1, 2006.01] 1/64 by means which ascertain the radius of the film 7/12 a hand-actuated member moved from one position coiled on a spool [1, 2006.01] to another providing the energy to move the setting member, e.g. depression of shutter release 1/66 Counting number of exposures [1, 2006.01] button causes a stepped feeler to co-operate with 3/00 the pointer of the light-sensitive device to set the Focusing arrangements of general interest for cameras, projectors or printers [1, 2006.01] diaphragm and thereafter release the shutter [1, 2006.01] 3/02 • moving lens along baseboard [1, 2006.01] 7/14 setting of both shutter and diaphragm aperture 3/04 · adjusting position of image plane without moving being effected so as to give the optimum lens [1, 2006.01] compromise between depth of field and 3/06 using movable reflectors to alter length of lightshortness of exposure [1, 2006.01] path [1, 2006.01] in accordance with both the intensity of the flash 7/16 3/10 • Power-operated focusing [1, 2006.01] source and the distance of the flash source from the • • adapted for remote control [1, 2006.01] 3/12 object, e.g. in accordance with the "guide number" of the flash bulb and the focusing of the 5/00 Adjustment of optical system relative to image or camera [1, 2006.01, 2014.01] object surface other than for focusing of general 7/17 Selection of modes in flash units by exposure interest for cameras, projectors or control arrangements [2014.01] printers [1, 2006.01] • in accordance with light-reducing "factor" of filter or 7/18 5/02 • Lateral adjustment of lens [1, 2006.01] other obturator used with or on the lens of the 5/04 Vertical adjustment of lens; Rising fronts [1, 2006.01] camera [1, 2006.01] 5/06 Swinging lens about normal to the optical 7/20 in accordance with change of lens [1, 2006.01] axis [1, 2006.01] 7/22 in accordance with temperature or height, e.g. in 5/08 • Swing backs [1, 2006.01] aircraft [1, 2006.01] 7/24 automatically in accordance with markings or other means indicating film speed or kind of film on the **Details common to cameras** magazine to be inserted in the camera [3, 2006.01] 7/00 7/26 Control of exposure by setting shutters, diaphragms Power supplies; Circuitry or arrangement to switch or filters, separately or conjointly (control of exposure on the power source; Circuitry to check the power in television cameras by means of circuitry influencing source voltage [3, 2006.01] the optical part of the camera 7/28 Circuitry to measure or to take account of the object H04N 5/238) [1, 2006.01, 2014.01] contrast [3, 2006.01] 7/01 with selection of either manual or automatic 7/30 Safety arrangements for control of mode [2014.01] exposure [2014.01] 7/02 Control effected by setting a graduated member on 9/00 Exposure-making shutters; Diaphragms [1, 2006.01] the camera in accordance with indication or reading afforded by a light meter, which may be either 9/02 Diaphragms [1, 2, 2006.01] separate from, or built into, camera body [1, 2006.01] 9/04 Single movable plate with two or more apertures 7/04 Control effected by hand adjustment of a member of graded size, e.g. sliding plate, pivoting that senses indication of a pointer of a built-in lightplate [1, 2006.01] sensitive device, e.g. by restoring pointer to a fixed 9/06 Two or more co-operating pivoted blades e.g. iris associated reference mark [1, 2006.01] type (shutters functioning as diaphragms by 7/06 by a follow-up movement of an associated limiting extent of opening movement

G03B 9/08) **[1, 2006.01]**9/07 • with means for presetting the diaphragm **[1, 2006.01]**

9/08 • Shutters [1, 2, 2006.01]

9/10 • Blade or disc rotating or pivoting about axis normal to its plane [1, 2006.01]

9/12 • • • Two relatively-adjustable aperture-defining members moving as a unit [1, 2006.01]

7/085 • • • for control of aperture **[3, 2006.01]**

7/08

reference mark to the pointer [1, 2006.01]

• Control effected solely on the basis of the response,

7/0805 • • Setting of priority modes **[2014.01]**

7/083 • • • for control of exposure time **[3, 2006.01]**

7/081 • • Analogue circuits [3, 2006.01]

to the intensity of the light received by the camera, of

a built-in light-sensitive device [1, 2006.01, 2014.01]

9/14	 • • Two separate members moving in opposite 	13/08	• • • with reflected image of frame [1, 2006.01]
	directions [1, 2006.01]	13/10	 adjusting viewfinder field [1, 2006.01]
9/16	• • • Two separate members moving in the same direction [1, 2006.01]	13/12	• • to compensate for change of camera lens or size of picture [1, 2006.01]
9/18	• • • More than two members [1, 2006.01]	13/14	to compensate for parallax due to short
9/20	• • • each moving in a single direction first to open and then to reclose [1, 2006.01]		range [1, 2006.01]
9/22	• • • each moving in one direction to open and	13/16	• combined with focusing aids [1, 2006.01]
3122	then in opposite direction to close, e.g. iris	13/18 13/20	• Focusing aids [1, 2006.01]
	type [1, 2006.01]	13/20	 Rangefinders coupled with focusing arrangements, e.g. adjustment of rangefinder automatically
9/24	• • • Adjusting size of aperture formed by members		focusing camera [1, 2006.01]
	when fully open so as to constitute a virtual diaphragm that is adjustable [1, 2006.01]	13/22	 coupling providing for compensation upon change of camera lens [1, 2006.01]
9/26	• • incorporating cover blade or	13/24	• Focusing screens [1, 2006.01]
	blades [1, 2006.01]	13/24	 with magnifiers for inspecting image formed on
9/28	• • Roller blind or flexible plate [1, 2006.01]	13/20	screen [1, 2006.01]
9/30	• • • Single blind with multiple slots or other	13/28	• • • Image-splitting devices [1, 2006.01]
	aperture [1, 2006.01]	13/30	 indicating depth of field [5, 2006.01]
9/32	• • • Double blind [1, 2006.01]	13/32	 Means for focusing [5, 2006.01]
9/34	• • • with adjustable slot; with mechanism	13/34	• Power focusing [5, 2006.01]
	controlling relative movement of blinds to	13/36	• • Autofocus systems [5, 2006.01]
	form slot [1, 2006.01]	13/30	7101010cus systems [5, 2000.01]
9/36	 Sliding rigid plate [1, 2006.01] 	15/00	Special procedures for taking photographs;
9/38	 • • Single rigid plate with multiple slots or other 		Apparatus therefor [1, 2006.01]
	apertures [1, 2006.01]	15/02	• Illuminating scene [1, 2006.01]
9/40	• • • Double plate [1, 2006.01]	15/03	 Combinations of cameras with lighting apparatus;
9/42	• • • with adjustable slot; with mechanism		Flash units [1, 2006.01]
	controlling relative movement of plates to form slot [1, 2006.01]	15/035	• • Combinations of cameras with incandescent lamps [1, 2006.01]
9/44	 Curved track and plate [1, 2006.01] 	15/04	Combinations of cameras with non-electronic
9/46	 Flap shutters pivoting about axis in plane of flap [1, 2006.01] 		flash apparatus; Non-electronic flash units [1, 2006.01]
9/48	• • • Double flap [1, 2006.01]	15/05	Combinations of cameras with electronic flash
9/50	• • • Louvre type [1, 2006.01]	13, 33	apparatus; Electronic flash units [1, 2006.01]
9/52	• • Barrel shutters [1, 2006.01]	15/06	Special arrangements of screening, diffusing, or
9/54	Conical shutters; Rotating plate with axis of		reflecting devices, e.g. in studio [1, 2006.01]
	rotation inclined to optical axis of	15/07	• • • Arrangements of lamps in studios [1, 2006.01]
	shutter [1, 2006.01]	15/08	 Trick photography [1, 2006.01]
9/58	 Means for varying duration of "open" period of shutter [1, 2006.01] 	15/10	 using back-projection, i.e. blending artificial background with real foreground [1, 2006.01]
9/60	 by varying speed of movement of obturating 	15/12	• • using mirrors [1, 2006.01]
9/62	members [1, 2006.01] • by varying interval of time between end of	15/14	 for taking photographs during medical operations [1, 2006.01]
	opening movement and beginning of closing	15/16	 for photographing the track of moving objects (high-
	movement [1, 2006.01]	15/10	speed photography G03B 39/00) [1, 2006.01]
9/64	 Mechanism for delaying opening of shutter (separate 		
	from shutter G03B 17/38) [1, 2006.01]	17/00	Details of cameras or camera bodies; Accessories
9/66	 Means for cocking shutter separate from means for 		therefor (lens hoods or caps G03B 11/04) [1, 2006.01]
	releasing shutter [1, 2006.01]	17/02	• Bodies [1, 2006.01]
9/68	 Cocking effected by movement of film [1, 2006.01] 	17/04	 collapsible, foldable or extensible, e.g. book type [1, 2006.01]
9/70	• with flash-synchronising contacts [1, 2006.01]	17/06	with exposure meters or other indicators built into body but not connected to other comers.
11/00	Filters or other obturators specially adapted for		body but not connected to other camera
	photographic purposes [1, 2006.01]	17/08	members [1, 2006.01] • Waterproof bodies or housings [1, 2006.01]
11/02	• Sky masks [1, 2006.01]	17/10	 • Soundproof bodies [1, 2006.01]
11/04	Hoods or caps for eliminating unwanted light from	17/10	 with means for supporting objectives,
11/06	lenses, viewfinders, or focusing aids [1, 2006.01] • Lens caps for exposure making [1, 2006.01]	17/12	supplementary lenses, filters, masks, or
11/00	Zeno capo for exposure maxing [1, 2000.01]	17/14	turrets [1, 2006.01]
13/00	Viewfinders; Focusing aids for cameras; Means for	17/14 17/16	• • interchangeably [1, 2006.01]
	focusing for cameras; Autofocus systems for	17/16	 for containing both motion-picture camera and still-picture camera [1, 2006.01]
	cameras [1, 5, 2006.01]	17/17	 with reflectors arranged in beam forming the
13/02	• Viewfinders [1, 2006.01]	1//1/	photographic image, e.g. for reducing dimensions
13/04	 of direct-vision type, e.g. frame, sighting mark [1, 2006.01] 		of camera [1, 2006.01]

IPC (2020.01), Section G 3

13/06 • • with lenses with or without reflectors [1, 2006.01]

17/18	•	Signals indicating condition of a camera member or suitability of light (indicating depth of field	19/18	• Motion-picture cameras (with non-intermittently running film G03B 41/02) [1, 2006.01]
		G03B 13/30) [1, 2006.01]	19/20	 Reflex cameras [1, 2006.01]
17/20	•	 visible in viewfinder [1, 2006.01] 	19/22	• • Double cameras [1, 2006.01]
17/22	•	with means for cutting-off film [1, 2006.01]	19/24	 adapted to be loaded with more than one film, e.g.
17/24		with means for separately producing marks on the film, e.g. title, time of exposure [1, 2006.01]	-0, -1	with exposure of one or the other at will [1, 2006.01]
17/26	•	Holders for containing light-sensitive material and adapted to be inserted within the camera (holders for	19/26	• • with fade-in and fade-out effects [4, 2006.01]
		X-ray films G03B 42/04) [1, 2, 2006.01]	21/00	Projectors or projection-type viewers; Accessories
17/28	•	Locating light-sensitive material within		therefor (devices for changing pictures G03B 23/00) [1, 2006.01]
		camera [1, 2006.01]	21/02	
17/30	•	 Locating spools or other rotatable holders of coiled film [1, 2006.01] 	21/02	Multiple-film apparatus [1, 2006.01]Picture "juke-boxes" [1, 2006.01]
17/32		• Locating plates or cut films [1, 2006.01]	21/06	affording only episcopic projection [1, 2006.01]
17/34		 Changing plates or cut films [1, 2006.01] 	21/08	 affording epidiascopic projection [1, 2006.01]
			21/10	Projectors with built-in or built-on
17/36	•	Counting number of exposures (of film strips G03B 1/66) [1, 2006.01]	21/10	screen [1, 2006.01]
17/38	•	Releasing-devices separate from shutter (integral	21/11	 for microfilm reading [1, 2006.01]
		with shutter G03B 9/08) [1, 2006.01]	21/12	 adapted for projection of either still pictures or
17/40	•	• with delayed or timed action [1, 2006.01]		motion pictures (prolonged exhibition of single frame
17/42		Interlocking between shutter operation and advance		G03B 21/38) [1, 2006.01]
17/42		of film or change of plate or cut-film [1, 2006.01]	21/13	 Projectors for producing special effects at the edges
17/44	•	Means for exchanging focusing screen and light-	21/122	of picture, e.g. blurring [1, 2006.01]
		sensitive material [1, 2006.01]	21/132	Overhead projectors, i.e. capable of projecting hand- variting or drawing during action (onldiseconic)
17/46	•	Means for exposing single frames in motion-picture camera [1, 2006.01]		writing or drawing during action (epidiascopic projectors G03B 21/08) [1, 2006.01]
17/48	•	adapted for combination with other photographic or	21/134	 Projectors combined with typing apparatus or with printing apparatus [1, 2006.01]
45/50		optical apparatus [1, 2006.01]	21/14	• Details [1, 2006.01]
17/50	•	with both developing and finishing		
		apparatus [1, 2006.01]	21/16	• • Cooling; Preventing overheating [1, 2006.01]
17/52	•	• • of the Land type [1, 2006.01]	21/18	• • Fire preventing or extinguishing [1, 2006.01]
17/53	•	 for automatically delivering a finished picture 	21/20	 Lamp housings [1, 2006.01]
		after a signal causing exposure has been given,	21/22	 Soundproof bodies [1, 2006.01]
		e.g. by pushing a button, by inserting a coin [1, 2006.01]	21/26	 Projecting separately subsidiary matter simultaneously with main image [1, 2006.01]
17/54		• with projector [1, 2006.01]	21/20	
			21/28	• • Reflectors in projection beam [1, 2006.01]
17/55	•	with provision for heating or cooling, e.g. in aircraft [1, 2006.01]	21/30	 adapted to collapse or fold, e.g. for portability [1, 2006.01]
17/56	•	Accessories (carrying-cases A45C 11/38) [1, 2006.01]	21/32	Details specially adapted for motion-picture projection (with film moving continuously through
17/58	•	Attachments for converting cameras into reflex		the gate G03B 41/02) [1, 2006.01]
		cameras [1, 2006.01]	21/34	• • • Change-over arrangements [1, 2006.01]
			21/36	• • • Fades, dissolves, or wipes [1, 2006.01]
			21/38	 • Prolonged exhibition of single frame [1, 2006.01]
19/00	C	Cameras (details G03B 17/00) [1, 2006.01]	21/40	• • Eliminating or reducing effect of
19/02	•	Still-picture cameras [1, 2006.01]	21/40	flicker [1, 2006.01]
19/04	•	• Roll-film cameras [1, 2006.01]	21 / 42	
19/06		• • adapted to be loaded with more than one film,	21/42	 • Preventing damage to film due to abnormal operation of projector [1, 2006.01]
		e.g. with exposure of one or the other at will	21/43	• • • Driving mechanisms [1, 2006.01]
		(G03B 19/07 takes precedence) [1, 2006.01]	21/43	• • • Mechanisms transmitting motion to film-
19/07	•	 having more than one objective [1, 2006.01] 	41/ 44	strip feed; Mechanical linking of shutter and
19/08	•	• • with provision for alternative use with plates or cut-films [1, 2006.01]		intermittent feed [1, 2006.01]
10/10	_		21/46	• • • affording adjustment for
19/10	•	 Plate or cut-film cameras (with provision for alternative use with roll film 	21/48	framing [1, 2006.01] • • • • for altering frame speed; for regulating
19/12	_	G03B 19/08) [1, 2006.01] • Reflex cameras with single objective and a	21/ 4 0	constancy of film speed [1, 2006.01]
13/14	•	movable reflector or a partly-transmitting	21/50	 Control devices operated by the film strip during the run [1, 2006.01]
		mirror [1, 2006.01]	21/52	• • • • by prepared film [1, 2006.01]
19/14	•	 with paired lenses, one of which forms image on 		
		photographic material and the other forms a corresponding image on a focusing	21/53	 Means for automatic focusing, e.g. to compensate thermal effects [5, 2006.01]
		screen [1, 2006.01]	21/54	• Accessories [1, 2006.01]
19/16		• Pin-hole cameras [1, 2006.01]	21/56	• • Projection screens [1, 2006.01]
13/10	•	1 m-noic cameras [1, 2000,01]		

21/58	 collapsible, e.g. foldable; of variable area [1, 2006.01, 2014.01] 	27/20	• • • • by using a vacuum or fluid pressure [1, 2006.01]
21/585 21/60	• • • Inflatable screens [2014.01]• • characterised by the nature of the	27/22	• • • • by stretching over a curved surface [1, 2006.01]
	surface [1, 2006.01, 2014.01]	27/24	• • • Separating the original from the
21/602	• • • Lenticular screens (G03B 21/625 takes precedence) [2014.01]	27/26	print [1, 2006.01] • • • Cooling [1, 2006.01]
21/604	• • • • Polarised screens [2014.01]	27/28	• • Edge-masking devices [1, 2006.01]
21/606	• • • for relief projection [2014.01]	27/30	• • adapted to be combined with processing
21/608	• • • • Fluid screens [2014.01]		apparatus [1, 2006.01]
21/62	• • • Translucent screens [1, 2006.01, 2014.01]	27/32	 Projection printing apparatus, e.g. enlarger, copying
21/625	• • • • Lenticular translucent screens [2014.01]		camera [1, 2006.01]
21/64	Means for mounting individual pictures to be	27/34	 Means for automatic focusing
	projected, e.g. frame for transparency [1, 2006.01]	D= /D6	therefor [1, 4, 2006.01]
22/00	Devices for changing nictures in viewing apparetus	27/36	 • • by mechanical connections, e.g. by cam, by linkage [1, 2006.01]
23/00	Devices for changing pictures in viewing apparatus or projectors [1, 2006.01]	27/38	• • • embodying screws with non-uniform
		27/30	pitch [1, 2006.01]
	Note(s)	27/40	• • • adapted for use with lenses of different focal
	In this group, the following term is used with the meaning indicated:	25/42	length [1, 2006.01]
	"picture" means any flat representation,	27/42	 for automatic sequential copying of the same original (G03B 27/34, G03B 27/53 take
	whether transparent or not, e.g. produced by		precedence) [1, 4, 2006.01]
	photography, writing, or printing.	27/44	 for multiple copying of the same original at the
23/02	in which a picture is removed from a stock and		same time (G03B 27/34, G03B 27/53 take
	returned to the same stock or another one; Magazines therefor [1, 2006.01]		precedence) [1, 4, 2006.01]
23/04	 with linear movement [1, 2006.01] 	27/46	for automatic sequential copying of different
23/04	• with rotary movement [1, 2006.01]		originals, e.g. enlargers, roll film printers (G03B 27/34, G03B 27/50, G03B 27/53 take
23/08	• in which pictures are attached to a movable		precedence) [1, 4, 2006.01]
	carrier [1, 2006.01]	27/465	 at different positions of the same strip, e.g.
23/10	• • drum or disc carrier [1, 2006.01]		microfilm [4, 2006.01]
23/12	• • linear strip carrier [1, 2006.01]	27/47	• • at different positions of the same sheet, e.g.
23/14	Carriers operable to move pictures into, and out of,	05./455	microfiche [4, 2006.01]
	the projection or viewing position and carrying one or two pictures only in a removable manner	27/475	• • copying cinematographic film (G03B 27/48 takes precedence) [4, 2006.01]
	(G03B 23/18 takes precedence) [1, 4, 2006.01]	27/48	 with original in the form of a film strip moving
23/18	• with fade-in and fade-out effects [4, 2006.01]		continuously and compensation for consequent image movement [1, 2006.01]
25/00	Viewers, other than projection viewers, giving	27/50	 with slit or like diaphragm moving over original
	motion-picture effects by persistence of vision, e.g.		for progressive exposure (G03B 27/34 takes
25 /02	zoetrope [1, 2006.01]		precedence) [1, 4, 2006.01]
25/02	• with interposed lenticular or line screen [1, 2006.01]	27/52	• • Details [1, 2006.01]
27/00	Photographic printing apparatus [1, 2006.01]	27/53	 • • Automatic registration or positioning of originals with respect to each other or the
27/02	• Exposure apparatus for contact printing [1, 2006.01]		photosensitive layer [4, 2006.01]
27/04	Copying apparatus without a relative movement	27/54	Lamp housings; Illuminating
	between the original and the light source during exposure, e.g. printing frame or printing		means [1, 2006.01]
	box [1, 2006.01]	27/56	Mounting enlarger head on
27/06	• • for automatic repeated copying of the same	27/58	column [1, 2006.01] • • • Baseboards, masking frames, or other holders
	original [1, 2006.01]	2//30	for the sensitive material (G03B 27/53 takes
27/08	• • for automatic copying of several originals one		precedence) [1, 4, 2006.01]
	after the other, e.g. for copying cinematograph film [1, 2006.01]	27/60	• • • using a vacuum or fluid
27/10	Copying apparatus with a relative movement		pressure [1, 2006.01]
27710	between the original and the light source during	27/62	• • • Holders for the original (G03B 27/53 takes
	exposure [1, 2006.01]	27/64	precedence) [1, 4, 2006.01] • • • • using a vacuum or fluid
27/12	 • for automatic repeated copying of the same original [1, 2006.01] 	27704	pressure [1, 2006.01]
27/14	• • Details [1, 2006.01]	27/66	 • • specially adapted for holding half-tone screens [1, 2006.01]
27/16	• • • Illumination arrangements, e.g. positioning of	27/68	• • Introducing or correcting distortion, e.g. in
	lamps, positioning of reflectors (controlling the	27,00	connection with oblique projection [1, 2006.01]
27/18	exposure G03B 27/72) [1, 2006.01] • • • Maintaining or producing contact pressure	27/70	• • • Reflectors in printing beam [1, 2006.01]
4//10	between original and light-sensitive	27/72	Controlling or varying light intensity, spectral
	material [1, 2006.01]		composition, or exposure time in photographic
			printing apparatus [1, 2006.01]

IPC (2020.01), Section G 5

6

27/73	 Controlling exposure by variation of spectral composition, e.g. multicolor printers [3, 2006.01] 	35/14	 Printing apparatus specially adapted for conversion between different types of record (G03B 42/08 takes
27/74	 Positioning exposure meters in the 		precedence) [1, 4, 2006.01]
	apparatus [1, 2006.01]	35/16	 by sequential viewing [1, 2006.01]
27/80	• • in dependence upon automatic analysis of the	35/18	 by simultaneous viewing [1, 2006.01]
	original (G03B 27/73 takes	35/20	 using two or more projectors [1, 2006.01]
	precedence) [3, 2006.01]	35/22	 using single projector with stereoscopic-base- defining system [1, 2006.01]
29/00	Combinations of cameras, projectors or	35/24	 using apertured or refractive resolving means on
	photographic printing apparatus with non- photographic non-optical apparatus, e.g. clocks or		screen or between screen and eye [1, 2006.01]
	weapons; Cameras having the shape of other objects	35/26	 using polarised or coloured light for separating
	(combinations with flash apparatus		different viewpoint images [1, 2006.01]
	G03B 15/03) [1, 2006.01]	37/00	Danavamie av vide cerean photography
		37/00	Panoramic or wide-screen photography; Photographing extended surfaces, e.g. for surveying;
			Photographing internal surfaces, e.g. of
Special to	<u>echniques</u>		pipe [1, 2006.01]
31/00	Associated working of cameras or projectors with	37/02	 with scanning movement of lens or
31,00	sound-recording or sound-reproducing		camera [1, 2006.01]
	means [1, 2006.01]	37/04	 with cameras or projectors providing touching or
31/02	 in which sound track is on a moving-picture 		overlapping fields of view [1, 2006.01]
	film [1, 2006.01]	37/06	 involving anamorphosis (G03B 37/02, G03B 37/04
31/04	 in which sound track is not on, but is synchronised 		take precedence) [1, 2006.01]
	with, a moving-picture film [1, 2006.01]	39/00	High-speed photography [1, 2006.01]
31/06	• in which sound track is associated with successively-	39/02	 using stationary plate or film (G03B 39/06 takes
24 /00	shown still pictures [1, 2006.01]	557 02	precedence) [1, 2006.01]
31/08	• with fade-in and fade-out effects [4, 2006.01]	39/04	• using moving plate or film (G03B 39/06 takes
33/00	Colour photography, other than mere exposure or	20.425	precedence) [1, 2006.01]
	projection of a colour film (printing apparatus	39/06	using light-guides for transferring image frame or alements thereof into different array, a.g. into a
	G03B 27/00; stereoscopic colour photography G03B 35/00) [1, 2006.01]		elements thereof into different array, e.g. into a line [1, 2006.01]
33/02	• by two-colour separation records, e.g. red-aspect and		mic [1, 2000.01]
33/02	white complete records; using Land	41/00	Special photographic techniques not covered by
	effect [1, 2006.01]		groups G03B 31/00-G03B 39/00; Apparatus
33/04	• by four or more separation records [1, 2006.01]	44.400	therefor [1, 2, 2006.01]
33/06	• by additive-colour projection apparatus [1, 2006.01]	41/02	• using non-intermittently-running film [1, 2006.01]
33/08	 Sequential recording or projection (G03B 33/02, 	41/04	• • with optical compensator [1, 2006.01]
	G03B 33/04, G03B 33/06 take	41/06	• • • with rotating reflecting member [1, 2006.01]
	precedence) [1, 2006.01]	41/08	• • • with rotating transmitting member [1, 2006.01]
33/10	• Simultaneous recording or projection (G03B 33/02,	41/10	• • • with oscillating reflecting member [1, 2006.01]
	G03B 33/04, G03B 33/06 take precedence) [1, 2006.01]	41/12	 • with oscillating transmitting member [1, 2006.01]
33/12	 using beam-splitting or beam-combining systems, 	41/14	Overcoming image movement by brief flashes of
33/12	e.g. dichroic mirrors [1, 2006.01]	41/14	light [1, 2006.01]
33/14	using lenticular screens (integral with film		
557 1 .	G03C) [1, 2006.01]	42/00	Obtaining records using waves other than optical
33/16	using colour-pattern screens (integral with film		waves; Visualisation of such records by using optical
	G03C) [1, 2006.01]	40.400	means [4, 2006.01]
DE /00	G. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	42/02	• using X-rays [4, 2006.01]
35/00	Stereoscopic photography [1, 2006.01]	42/04	• • Holders for X-ray films [4, 2006.01]
35/02	• by sequential recording [1, 2006.01]	42/06	 using ultrasonic, sonic or infrasonic waves [4, 2006.01]
35/04	 with movement of beam-selecting members in a system defining two or more 	42/08	Visualisation of records by optical
	viewpoints [1, 2006.01]	42/00	means [4, 2006.01]
35/06	 with axial movement of lens or gate between 		·· · · • · · · · · · · · · · · · · · ·
22,00	exposures [1, 2006.01]		
35/08	by simultaneous recording [1, 2006.01]		
35/10	having single camera with stereoscopic-base-	43/00	Testing correct operation of photographic apparatus
	defining system [1, 2006.01]	42 /02	or parts thereof [1, 2006.01]
35/12	 involving recording of different viewpoint images 	43/02	• Testing shutters [1, 2006.01]
	in different colours on a colour film [1, 2006.01]		