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.
- 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	11/00, 17/00
special procedures for taking photographs	15/00
Common to projectors only	
Common to printers only	
APPARATUS	
Cameras	19/00
Projectors, viewers; devices for changing pictures	21/00, 25/00, 23/00
Printing apparatus	27/00
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	33/00, 35/00, 37/00, 39/00
Other techniques	41/00
Using waves other than optical waves, visualisation	
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
- 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]

- Special arrangements to ensure constant length of movement of film [1, 2006.01, 2021.01]
- 1/16 • by film-arresting pins [1, 2006.01, 2021.01]
- 1/18 Moving film strip by means which act on the film between the ends thereof [1, 2006.01, 2021.01]
- 1/20 Acting means [1, 2006.01, 2021.01]
- 1/22 • Claws or pins engaging holes in the film [1, 2006.01, 2021.01]
- 1/24 • Sprockets engaging holes in the film [1, 2006.01, 2021.01]
- 1/26 • Spiked wheels or pins not penetrating the film [1, 2006.01, 2021.01]
- 1/28 • Shuttle feed [1, 2006.01, 2021.01]
- 1/30 • Belt feed [1, 2006.01, 2021.01]
- 1/32 • Friction grippers or rollers [1, 2006.01, 2021.01]
- 1/34 • Beaters [1, 2006.01, 2021.01]

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- • Pneumatic acting means [1, 2006.01, 2021.01] 1/36
- • embodying Geneva motion, e.g. Maltese-cross 1/38 gearing [1, 2006.01, 2021.01]
- 1/40 embodying frictional coupling or clutches [1, 2006.01, 2021.01]
- Guiding, framing, or constraining film in desired 1/42 position relative to lens system [1, 2006.01, 2021.01]
- Guides engaging edge of film (gates 1/44 G03B 1/48) [1, 2006.01, 2021.01]
- 1/46 Rollers engaging face of film, e.g. barrel, waisted, conical (gates G03B 1/48) [1, 2006.01, 2021.01]
- 1/48 Gates or pressure devices, e.g. plate [1, 2006.01, 2021.01]
- adjustable or interchangeable, e.g. for different 1/50 film widths [1, 2006.01, 2021.01]
- 1/52 • • • Pneumatic pressure devices [1, 2006.01, 2021.01]
- • Tensioning or loop-maintaining 1/54 devices [1, 2006.01, 2021.01]
- 1/56 • Threading; Loop forming [1, 2006.01, 2021.01]
- 1/58 • automatic [1, 2006.01, 2021.01]
- 1/60 Measuring or indicating length of the used or unused film; Counting number of exposures [1, 2006.01, 2021.01]
- 1/62 involving locking or stop-motion devices [1, 2006.01, 2021.01]
- 1/64 by means which ascertain the radius of the film coiled on a spool [1, 2006.01, 2021.01]
- 1/66 • • Counting number of exposures [1, 2006.01, 2021.01]
- 3/00 Focusing arrangements of general interest for cameras, projectors or printers [1, 2006.01, 2021.01]
- 3/02 moving lens along baseboard [1, 2006.01, 2021.01]
- adjusting position of image plane without moving 3/04 lens [1, 2006.01, 2021.01]
- 3/06 · · using movable reflectors to alter length of lightpath [1, 2006.01, 2021.01]
- 3/10 • Power-operated focusing [1, 2006.01, 2021.01]
- 3/12 • • adapted for remote control [1, 2006.01, 2021.01]
- 5/00 Adjustment of optical system relative to image or object surface other than for focusing of general interest for cameras, projectors or printers [1, 2006.01, 2021.01]
- 5/02 Lateral adjustment of lens [1, 2006.01, 2021.01]
- 5/04 Vertical adjustment of lens; Rising fronts [1, 2006.01, 2021.01]
- Swinging lens about normal to the optical 5/06 axis [1, 2006.01, 2021.01]
- 5/08 • Swing backs [1, 2006.01, 2021.01]

Details common to cameras

- 7/00 Control of exposure by setting shutters, diaphragms or filters, separately or conjointly (control of exposure in television cameras by means of circuitry influencing the optical part of the camera H04N 5/238) [1, 2006.01, 2014.01, 2021.01]
- 7/01 · with selection of either manual or automatic
- mode [2014.01, 2021.01]
- 7/02 Control effected by setting a graduated member on the camera in accordance with indication or reading afforded by a light meter, which may be either separate from, or built into, camera body [1, 2006.01, 2021.01]

- 7/04 Control effected by hand adjustment of a member that senses indication of a pointer of a built-in lightsensitive device, e.g. by restoring pointer to a fixed associated reference mark [1, 2006.01, 2021.01]
- by a follow-up movement of an associated 7/06 reference mark to the pointer [1, 2006.01, 2021.01]
- 7/08 Control effected solely on the basis of the response, to the intensity of the light received by the camera, of a built-in light-sensitive device [1, 2006.01, 2014.01, 2021.01]
- 7/0805 • Setting of priority modes [2014.01, 2021.01]
- • Analogue circuits [3, 2006.01, 2021.01] 7/081
- 7/083 for control of exposure time [3, 2006.01, 2021.01]
- 7/085 • • • for control of aperture [3, 2006.01, 2021.01]
- 7/087 for control of both exposure time and aperture [3, 2006.01, 2021.01]
- 7/089 for storage of exposure value in mirror reflex cameras [3, 2006.01, 2021.01]
- 7/091 Digital circuits [3, 2006.01, 2021.01]
- 7/093 for control of exposure time [3, 2006.01, 2021.01]
- 7/095 for control of aperture [3, 2006.01, 2021.01]
- 7/097 for control of both exposure time and aperture [3, 2006.01, 2021.01]
- 7/099 • Arrangement of photoelectric elements in or on the camera [3, 2006.01, 2014.01, 2021.01]
- 7/0993 • in the camera [2014.01, 2021.01]
- 7/0997 • • Through the lens [TTL] measuring [2014.01, 2021.01]
- 7/10 • • a servo-motor providing energy to move the setting member [1, 2006.01, 2021.01]
- • a hand-actuated member moved from one position 7/12 to another providing the energy to move the setting member, e.g. depression of shutter release button causes a stepped feeler to co-operate with the pointer of the light-sensitive device to set the diaphragm and thereafter release the shutter [1, 2006.01, 2021.01]
- 7/14 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]
- 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]
- 7/20 in accordance with change of lens [1, 2006.01, 2021.01]
- 7/22 in accordance with temperature or height, e.g. in aircraft [1, 2006.01, 2021.01]
- 7/24 automatically in accordance with markings or other means indicating film speed or kind of film on the magazine to be inserted in the camera [3, 2006.01, 2021.01]
- Power supplies; Circuitry or arrangement to switch 7/26 on the power source; Circuitry to check the power source voltage [3, 2006.01, 2021.01]
- 7/28 Circuitry to measure or to take account of the object contrast [3, 2006.01, 2021.01]

7/30	• Safety arrangements for control of exposure [2014.01, 2021.01]	9/62	• • by varying interval of time between end of opening movement and beginning of closing movement [1, 2006.01, 2021.01]
9/00	Exposure-making shutters; 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 		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 film [1, 2006.01, 2021.01]
9/06	Two or more co-operating pivoted blades e.g. iris	9/70	• with flash-synchronising
	type (shutters functioning as diaphragms by limiting extent of opening movement	3/70	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]
	diaphragm [1, 2006.01, 2021.01]	11/02	• Sky masks [1, 2006.01, 2021.01]
9/08	• Shutters [1, 2, 2006.01, 2021.01]	11/04	 Hoods or caps for eliminating unwanted light from
9/10	 Blade or disc rotating or pivoting about axis normal to its plane [1, 2006.01, 2021.01] 		lenses, viewfinders, or focusing aids [1, 2006.01, 2021.01]
9/12	• • Two relatively-adjustable aperture-defining	11/06	Lens caps for exposure
	members moving as a unit [1, 2006.01, 2021.01]		making [1, 2006.01, 2021.01]
9/14	• • Two separate members moving in opposite	13/00	Viewfinders; Focusing aids for cameras; Means for
	directions [1, 2006.01, 2021.01]		focusing for cameras; Autofocus systems for cameras [1, 5, 2006.01, 2021.01]
9/16	• • Two separate members moving in the same direction [1, 2006.01, 2021.01]	13/02	• Viewfinders [1, 2006.01, 2021.01]
9/18	• • • More than two members [1, 2006.01, 2021.01]	13/04	• • of direct-vision type, e.g. frame, sighting
9/10 9/20	• • • each moving in a single direction first to		mark [1, 2006.01, 2021.01]
9/20	open and then to	13/06	• • with lenses with or without reflectors [1, 2006.01, 2021.01]
0 (00	reclose [1, 2006.01, 2021.01]	13/08	• • with reflected image of
9/22	• • • each moving in one direction to open and	13/00	frame [1, 2006.01, 2021.01]
	then in opposite direction to close, e.g. iris type [1, 2006.01, 2021.01]	13/10	• • adjusting viewfinder field [1, 2006.01, 2021.01]
9/24	• • • Adjusting size of aperture formed by members	13/12	• • to compensate for change of camera lens or
3/24	when fully open so as to constitute a virtual		size of picture [1, 2006.01, 2021.01]
	diaphragm that is adjustable [1, 2006.01, 2021.01]	13/14	• • to compensate for parallax due to short range [1, 2006.01, 2021.01]
9/26	• • incorporating cover blade or	13/16	 combined with focusing aids [1, 2006.01, 2021.01]
	blades [1, 2006.01, 2021.01]	13/18	 Focusing aids [1, 2006.01, 2021.01]
9/28	• Roller blind or flexible plate [1, 2006.01, 2021.01]	13/20	• • Rangefinders coupled with focusing arrangements,
9/30	 • • Single blind with multiple slots or other aperture [1, 2006.01, 2021.01] 		e.g. adjustment of rangefinder automatically focusing camera [1, 2006.01, 2021.01]
9/32	• • • Double blind [1, 2006.01, 2021.01]	13/22	• • coupling providing for compensation upon change of camera lens [1, 2006.01, 2021.01]
9/34	• • • with adjustable slot; with mechanism controlling relative movement of blinds to	13/24	 • Focusing screens [1, 2006.01, 2021.01]
	form slot [1, 2006.01, 2021.01]	13/26	• • • with magnifiers for inspecting image formed on
9/36	• • Sliding rigid plate [1, 2006.01, 2021.01]	18,20	screen [1, 2006.01, 2021.01]
9/38	• • • Single rigid plate with multiple slots or other	13/28	• • • Image-splitting devices [1, 2006.01, 2021.01]
	apertures [1, 2006.01, 2021.01]	13/30	• • indicating depth of field [5, 2006.01, 2021.01]
9/40	• • • Double plate [1, 2006.01, 2021.01]	13/32	• Means for focusing [5, 2006.01, 2021.01]
9/42	• • • with adjustable slot; with mechanism	13/34	• • Power focusing [5, 2006.01, 2021.01]
	controlling relative movement of plates to form slot [1, 2006.01, 2021.01]	13/36	• • • Autofocus systems [5, 2006.01, 2021.01]
9/44	• • • Curved track and plate [1, 2006.01, 2021.01]	15/00	Special procedures for taking photographs; Apparatus
9/46	 Flap shutters pivoting about axis in plane of 		therefor [1, 2006.01, 2021.01]
0.740	flap [1, 2006.01, 2021.01]	15/02	• Illuminating scene [1, 2006.01, 2021.01]
9/48	• • Double flap [1, 2006.01, 2021.01]	15/03	• Combinations of cameras with lighting apparatus;
9/50	• • Louvre type [1, 2006.01, 2021.01]	15 /025	Flash units [1, 2006.01, 2021.01]
9/52	Barrel shutters [1, 2006.01, 2021.01] Carried shutters Potestina plates vide said of	15/035	• • Combinations of cameras with incandescent lamps [1, 2006.01, 2021.01]
9/54	Conical shutters; Rotating plate with axis of rotation inclined to optical axis of	15/04	• • Combinations of cameras with non-electronic
٠ ـ ـ ـ ـ	shutter [1, 2006.01, 2021.01]	15/04	flash apparatus; Non-electronic flash
9/58	 Means for varying duration of "open" period of shutter [1, 2006.01, 2021.01] 	15/05	units [1, 2006.01, 2021.01]Combinations of cameras with electronic flash
9/60	 by varying speed of movement of obturating 	15,05	apparatus; Electronic flash
5700	members [1, 2006.01, 2021.01]		units [1, 2006.01, 2021.01]

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15/06	Special arrangements of screening, diffusing, or reflecting devices, e.g. in	17/48	 adapted for combination with other photographic or optical apparatus [1, 2006.01, 2021.01]
15/07	studio [1, 2006.01, 2021.01] • • • Arrangements of lamps in	17/50	 with both developing and finishing apparatus [1, 2006.01, 2021.01]
	studios [1, 2006.01, 2021.01]	17/52	• • • of the Land type [1, 2006.01, 2021.01]
15/08	 Trick photography [1, 2006.01, 2021.01] 	17/53	• • • for automatically delivering a finished picture
15/10	 using back-projection, i.e. blending artificial background with real foreground [1, 2006.01, 2021.01] 		after a signal causing exposure has been given, e.g. by pushing a button, by inserting a coin [1, 2006.01, 2021.01]
15/12	• • using mirrors [1, 2006.01, 2021.01]	17/54	• • with projector [1, 2006.01, 2021.01]
15/14	 for taking photographs during medical 	17/55	 with provision for heating or cooling, e.g. in
	operations [1, 2006.01, 2021.01]		aircraft [1, 2006.01, 2021.01]
15/16	 for photographing the track of moving objects (high- speed photography 	17/56	 Accessories (carrying-cases A45C 11/38) [1, 2006.01, 2021.01]
	G03B 39/00) [1, 2006.01, 2021.01]	17/58	 Attachments for converting cameras into reflex cameras [1, 2006.01, 2021.01]
17/00	Details of cameras or camera bodies; Accessories		
	therefor (lens hoods or caps G03B 11/04) [1, 2006.01, 2021.01]		
17/02	• Bodies [1, 2006.01, 2021.01]	10/00	Cameras (details CO2P 17/00) [1 2006 01 2021 01]
17/02 17/04	• collapsible, foldable or extensible, e.g. book	19/00 19/02	Cameras (details G03B 17/00) [1, 2006.01, 2021.01] • Still-picture cameras [1, 2006.01, 2021.01]
17704	type [1, 2006.01, 2021.01]	19/02	 Roll-film cameras [1, 2006.01, 2021.01]
17/06	 with exposure meters or other indicators built into 	19/04	 • • adapted to be loaded with more than one film,
	body but not connected to other camera members [1, 2006.01, 2021.01]	19/00	e.g. with exposure of one or the other at will (G03B 19/07 takes
17/08	Waterproof bodies or		precedence) [1, 2006.01, 2021.01]
17/10	housings [1, 2006.01, 2021.01]	19/07	• • • having more than one
17/10	• Soundproof bodies [1, 2006.01, 2021.01]	10 /00	objective [1, 2006.01, 2021.01]
17/12	 with means for supporting objectives, supplementary lenses, filters, masks, or turrets [1, 2006.01, 2021.01] 	19/08	• • with provision for alternative use with plates or cut-films [1, 2006.01, 2021.01]
17/14	• • • interchangeably [1, 2006.01, 2021.01]	19/10	 Plate or cut-film cameras (with provision for alternative use with roll film
17/16	• • for containing both motion-picture camera and		G03B 19/08) [1, 2006.01, 2021.01]
	still-picture camera [1, 2006.01, 2021.01]	19/12	Reflex cameras with single objective and a
17/17	 with reflectors arranged in beam forming the photographic image, e.g. for reducing dimensions 		movable reflector or a partly-transmitting mirror [1, 2006.01, 2021.01]
	of camera [1, 2006.01, 2021.01]	19/14	 with paired lenses, one of which forms image on
17/18	 Signals indicating condition of a camera member or suitability of light (indicating depth of field G03B 13/30) [1, 2006.01, 2021.01] 		photographic material and the other forms a corresponding image on a focusing screen [1, 2006.01, 2021.01]
17/20	 visible in viewfinder [1, 2006.01, 2021.01] 	19/16	 Pin-hole cameras [1, 2006.01, 2021.01]
17/22	 with means for cutting-off film [1, 2006.01, 2021.01] 	19/18	Motion-picture cameras (with non-intermittently
17/24	• with means for separately producing marks on the		running film G03B 41/02) [1, 2006.01, 2021.01]
47/00	film, e.g. title, time of exposure [1, 2006.01, 2021.01]	19/20	• • Reflex cameras [1, 2006.01, 2021.01]
17/26	Holders for containing light-sensitive material and adapted to be inserted within the camera (holders for	19/22	• • Double cameras [1, 2006.01, 2021.01]
17/28	X-ray films G03B 42/04) [1, 2, 2006.01, 2021.01] • Locating light-sensitive material within	19/24	 adapted to be loaded with more than one film, e.g. with exposure of one or the other at will [1, 2006.01, 2021.01]
17720	camera [1, 2006.01, 2021.01]	19/26	• • with fade-in and fade-out
17/30	 Locating spools or other rotatable holders of coiled film [1, 2006.01, 2021.01] 		effects [4, 2006.01, 2021.01]
17/32	 Locating plates or cut films [1, 2006.01, 2021.01] 	21/00	Projectors or projection-type viewers; Accessories
17/34	Changing plates or cut		therefor (devices for changing pictures
	films [1, 2006.01, 2021.01]	21/02	G03B 23/00) [1, 2006.01] • Multiple-film apparatus [1, 2006.01]
17/36	Counting number of exposures (of film strips Coop 1 (66) 14 (2004) 21 (2004) 22 (2004)	21/02	 Picture "juke-boxes" [1, 2006.01]
17/20	G03B 1/66) [1, 2006.01, 2021.01]	21/04	 affording only episcopic projection [1, 2006.01]
17/38	 Releasing-devices separate from shutter (integral with shutter G03B 9/08) [1, 2006.01, 2021.01] 	21/08	 affording epidiascopic projection [1, 2006.01]
17/40	 with shaller Go3B 9/06/ [1, 2006.01, 2021.01] with delayed or timed action [1, 2006.01, 2021.01] 	21/10	Projectors with built-in or built-on
17/42	Interlocking between shutter operation and advance		screen [1, 2006.01]
	of film or change of plate or cut-	21/11	• • for microfilm reading [1, 2006.01]
	film [1, 2006.01, 2021.01]	21/12	adapted for projection of either still pictures or
17/44	 Means for exchanging focusing screen and light- sensitive material [1, 2006.01, 2021.01] 		motion pictures (prolonged exhibition of single frame G03B 21/38) [1, 2006.01]
17/46	 Means for exposing single frames in motion-picture camera [1, 2006.01, 2021.01] 	21/13	 Projectors for producing special effects at the edges of picture, e.g. blurring [1, 2006.01]

21/132	 Overhead projectors, i.e. capable of projecting hand- writing or drawing during action (epidiascopic 	23/02	 in which a picture is removed from a stock and returned to the same stock or another one; Magazines
	projectors G03B 21/08) [1, 2006.01]		therefor [1, 2006.01]
21/12/	 Projectors combined with typing apparatus or with 	23/04	with linear movement [1, 2006.01]
21/134	printing apparatus [1, 2006.01]	23/04	 with infeat movement [1, 2006.01] with rotary movement [1, 2006.01]
21/14	 Details [1, 2006.01] 		
21/14	Cooling; Preventing overheating [1, 2006.01]	23/08	 in which pictures are attached to a movable carrier [1, 2006.01]
		22/10	
21/18	• • Fire preventing or extinguishing [1, 2006.01]	23/10	• • drum or disc carrier [1, 2006.01]
21/20	• Lamp housings [1, 2006.01]	23/12	• • 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		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]	22/10	(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]
	portability [1, 2006.01]	25/00	Viewers, other than projection viewers, giving
21/32	Details specially adapted for motion-picture	25,00	motion-picture effects by persistence of vision, e.g.
	projection (with film moving continuously through		zoetrope [1, 2006.01]
	the gate G03B 41/02) [1, 2006.01]	25/02	• with interposed lenticular or line screen [1, 2006.01]
21/34	• • • Change-over arrangements [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]
	frame [1, 2006.01]	27/04	Copying apparatus without a relative movement
21/40	 • Eliminating or reducing effect of 		between the original and the light source during
	flicker [1, 2006.01]		exposure, e.g. printing frame or printing
21/42	 Preventing damage to film due to abnormal 		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]		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		after the other, e.g. for copying cinematograph
	intermittent feed [1, 2006.01]		film [1, 2006.01]
21/46	• • • • affording adjustment for	27/10	 Copying apparatus with a relative movement
	framing [1, 2006.01]		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]
	during the run [1, 2006.01]	27/14	• • Details [1, 2006.01]
21/52	• • • by prepared film [1, 2006.01]	27/16	• • • Illumination arrangements, e.g. positioning of
21/53	Means for automatic focusing, e.g. to compensate		lamps, positioning of reflectors (controlling the
	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]
21750	area [1, 2006.01, 2014.01]	27/20	• • • by using a vacuum or fluid
21/585	• • • • Inflatable screens [2014.01]		pressure [1, 2006.01]
21/60	• characterised by the nature of the	27/22	• • • by stretching over a curved
21/00	surface [1, 2006.01, 2014.01]		surface [1, 2006.01]
21/602	• • • Lenticular screens (G03B 21/625 takes	27/24	• • Separating the original from the
21/002	precedence) [2014.01]		print [1, 2006.01]
21/604	• • • Polarised screens [2014.01]	27/26	• • • Cooling [1, 2006.01]
		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]	27730	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]	2//32	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]	∠//J 4	therefor [1, 4, 2006.01]
22/00	De la de la colonial de la la la la la colonia de la colonia del colonia de la colonia de la colonia del colonia del colonia de la colonia de la colonia de la colonia del colonia de la colonia de la colonia de la colonia de la colonia del	27/36	• • by mechanical connections, e.g. by cam, by
23/00	Devices for changing pictures in viewing apparatus	27730	linkage [1, 2006.01]
	or projectors [1, 2006.01]	27/38	• • • embodying screws with non-uniform
	Note(s)	2//30	pitch [1, 2006.01]
	In this group, the following term is used with the	27/40	• • • • adapted for use with lenses of different focal
	meaning indicated:	Z//4U	length [1, 2006.01]
	• "picture" means any flat representation,	27/42	for automatic sequential copying of the same
	whether transparent or not, e.g. produced by	Z//4Z	original (G03B 27/34, G03B 27/53 take
	photography, writing, or printing.		precedence) [1, 4, 2006.01]
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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]		2. The classification symbol of this group is not listed first when assigned to patent documents.
27/46	 for automatic sequential copying of different originals, e.g. enlargers, roll film printers 	Special t	<u>echniques</u>
	(G03B 27/34, G03B 27/50, G03B 27/53 take precedence) [1, 4, 2006.01]	31/00	Associated working of cameras or projectors with
27/465	• • at different positions of the same strip, e.g. microfilm [4, 2006.01]		sound-recording or sound-reproducing means [1, 2006.01, 2021.01]
27/47	• • at different positions of the same sheet, e.g. microfiche [4, 2006.01]	31/02	 in which sound track is on a moving-picture film [1, 2006.01, 2021.01]
27/475	• • copying cinematographic film (G03B 27/48 takes precedence) [4, 2006.01]	31/04	 in which sound track is not on, but is synchronised with, a moving-picture film [1, 2006.01, 2021.01]
27/48	• • with original in the form of a film strip moving continuously and compensation for consequent	31/06	 in which sound track is associated with successively- shown still pictures [1, 2006.01, 2021.01]
27/50	image movement [1, 2006.01]• with slit or like diaphragm moving over original	31/08	 with fade-in and fade-out effects [4, 2006.01, 2021.01]
	for progressive exposure (G03B 27/34 takes	22/00	Colour photography, other than more expecure or
	precedence) [1, 4, 2006.01]	33/00	Colour photography, other than mere exposure or projection of a colour film (printing apparatus
27/52 27/53	Details [1, 2006.01]Automatic registration or positioning of		G03B 27/00; stereoscopic colour photography G03B 35/00) [1, 2006.01]
	originals with respect to each other or the	33/02	 by two-colour separation records, e.g. red-aspect and
	photosensitive layer [4, 2006.01]		white complete records; using Land
27/54	• • • Lamp housings; Illuminating		effect [1, 2006.01]
27/56	means [1, 2006.01] • • • Mounting enlarger head on	33/04	• by four or more separation records [1, 2006.01]
27/30	column [1, 2006.01]	33/06	• by additive-colour projection apparatus [1, 2006.01]
27/58	Baseboards, masking frames, or other holders	33/08	• Sequential recording or projection (G03B 33/02,
27750	for the sensitive material (G03B 27/53 takes		G03B 33/04, G03B 33/06 take
	precedence) [1, 4, 2006.01]	22/10	precedence) [1, 2006.01]
27/60	• • • using a vacuum or fluid pressure [1, 2006.01]	33/10	• Simultaneous recording or projection (G03B 33/02, G03B 33/04, G03B 33/06 take
27/62	Holders for the original (G03B 27/53 takes)	22/12	precedence) [1, 2006.01]
27/64	precedence) [1, 4, 2006.01]	33/12	• • using beam-splitting or beam-combining systems, e.g. dichroic mirrors [1, 2006.01]
27/64	• • • using a vacuum or fluid pressure [1, 2006.01]	33/14	• • using lenticular screens (integral with film G03C) [1, 2006.01]
27/66	• • • specially adapted for holding half-tone screens [1, 2006.01]	33/16	• • using colour-pattern screens (integral with film G03C) [1, 2006.01]
27/68	• • • Introducing or correcting distortion, e.g. in		
27/70	connection with oblique projection [1, 2006.01]	35/00	Stereoscopic photography [1, 2006.01, 2021.01]
27/70	• • Reflectors in printing beam [1, 2006.01]	35/02	• by sequential recording [1, 2006.01, 2021.01]
27/72	 Controlling or varying light intensity, spectral composition, or exposure time in photographic printing apparatus [1, 2006.01] 	35/04	with movement of beam-selecting members in a system defining two or more 12 2006 01 2001 011
27/73	Controlling exposure by variation of spectral	25 /06	viewpoints [1, 2006.01, 2021.01]
	composition, e.g. multicolor printers [3, 2006.01]	35/06	 with axial movement of lens or gate between exposures [1, 2006.01, 2021.01]
27/74	 Positioning exposure meters in the apparatus [1, 2006.01] 	35/08	 by simultaneous recording [1, 2006.01, 2021.01]
27/80	• • in dependence upon automatic analysis of the	35/10	 having single camera with stereoscopic-base- defining system [1, 2006.01, 2021.01]
	original (G03B 27/73 takes	35/12	 involving recording of different viewpoint images
	precedence) [3, 2006.01]		in different colours on a colour film [1, 2006.01, 2021.01]
29/00	Combinations of cameras, projectors or photographic	35/14	 Printing apparatus specially adapted for conversion
	printing apparatus with non-photographic non-optical apparatus, e.g. clocks or weapons; Cameras having the	33711	between different types of record (G03B 42/08 takes precedence) [1, 4, 2006.01, 2021.01]
	shape of other objects (combinations with flash apparatus G03B 15/03) [1, 2006.01, 2021.01]	35/16	 by sequential viewing [1, 2006.01, 2021.01]
	apparatus 0000 10/00/[1, 2000.01, 2021.01]	35/18	 by simultaneous viewing [1, 2006.01, 2021.01]
30/00	Camera modules comprising integrated lens units and	35/20	• • using two or more
	imaging units, specially adapted for being embedded in other devices, e.g. mobile phones or vehicles [2021.01]	35/22	projectors [1, 2006.01, 2021.01]using single projector with stereoscopic-base-
		33,22	defining system [1, 2006.01, 2021.01]
	Note(s) [2021.01]	35/24	 using apertured or refractive resolving means on
	 When classification is made in this main group, further classification should be made in other 		screen or between screen and eye [1, 2006.01, 2021.01]
	groups of subclass G03B or in group G02B 7/00	35/26	 using polarised or coloured light for separating
	according to the functional aspects of the camera.	22,23	different viewpoint images [1, 2006.01, 2021.01]

37/00	Panoramic or wide-screen photography; Photographing extended surfaces, e.g. for surveying; Photographing internal surfaces, e.g. of pipe [1, 2006.01, 2021.01]	41/06 41/08	 • • with rotating reflecting member [1, 2006.01, 2021.01] • • with rotating transmitting member [1, 2006.01, 2021.01]
37/02	• with scanning movement of lens or camera [1, 2006.01, 2021.01]	41/10	• • • with oscillating reflecting member [1, 2006.01, 2021.01]
37/04	 with cameras or projectors providing touching or overlapping fields of view [1, 2006.01, 2021.01] 	41/12	• • • with oscillating transmitting member [1, 2006.01, 2021.01]
37/06	 involving anamorphosis (G03B 37/02, G03B 37/04 take precedence) [1, 2006.01, 2021.01] 	41/14	 Overcoming image movement by brief flashes of light [1, 2006.01, 2021.01]
39/00	High-speed photography [1, 2006.01, 2021.01]	42/00	Obtaining records using waves other than optical
39/02	 using stationary plate or film (G03B 39/06 takes precedence) [1, 2006.01, 2021.01] 		waves; Visualisation of such records by using optical means [4, 2006.01, 2021.01]
39/04	• using moving plate or film (G03B 39/06 takes	42/02	 using X-rays [4, 2006.01, 2021.01]
	precedence) [1, 2006.01, 2021.01]	42/04	 Holders for X-ray films [4, 2006.01, 2021.01]
39/06	 using light-guides for transferring image frame or elements thereof into different array, e.g. into a 	42/06	 using ultrasonic, sonic or infrasonic waves [4, 2006.01, 2021.01]
	line [1, 2006.01, 2021.01]	42/08	 Visualisation of records by optical means [4, 2006.01, 2021.01]
41/00	Special photographic techniques not covered by groups G03B 31/00-G03B 39/00; Apparatus therefor [1, 2, 2006.01, 2021.01]		
41/02	• using non-intermittently-running film [1, 2006.01, 2021.01]	43/00	Testing correct operation of photographic apparatus or parts thereof [1, 2006.01, 2021.01]
41/04	• • with optical compensator [1, 2006.01, 2021.01]	43/02	• Testing shutters [1, 2006.01, 2021.01]

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