

Symbol	Typ	Titel
<b>G</b>	<b>Sektion</b>	<b>PHYSICS</b>
<b>G03</b>	<b>Klasse</b>	<b>PHOTOGRAPHY; CINEMATOGRAPHY; ANALOGOUS TECHNIQUES USING WAVES OTHER THAN OPTICAL WAVES; ELECTROGRAPHY; HOLOGRAPHY [4]</b>
<b>G03B</b>	<b>Unterklasse</b>	<b>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]</b>
		<b><u>Details common to at least two of the following types of apparatus: cameras, projectors, printers</u></b>
<b>G03B 1/00</b>	<b>Hauptgruppe</b>	<b>Film-strip handling of general interest for cameras, projectors or printers [1, 2006.01]</b>
G03B 1/02	1-Punkt Untergruppe	. Moving film strip by pull on end thereof [1, 2006.01]
G03B 1/04	2-Punkt Untergruppe	.. Pull exerted by take-up spool [1, 2006.01]
G03B 1/06	3-Punkt Untergruppe	... rotated by lever-operated ratchet and pawl [1, 2006.01]
G03B 1/08	3-Punkt Untergruppe	... rotated by band, chain, rack, or other linear reciprocating operation [1, 2006.01]
G03B 1/10	3-Punkt Untergruppe	... rotated by knob through gearing [1, 2006.01]
G03B 1/12	3-Punkt Untergruppe	... rotated by motor, e.g. spring [1, 2006.01]
G03B 1/14	2-Punkt Untergruppe	.. Special arrangements to ensure constant length of movement of film [1, 2006.01]
G03B 1/16	3-Punkt Untergruppe	... by film-arresting pins [1, 2006.01]
G03B 1/18	1-Punkt Untergruppe	. Moving film strip by means which act on the film between the ends thereof [1, 2006.01]
G03B 1/20	2-Punkt Untergruppe	.. Acting means [1, 2006.01]
G03B 1/22	3-Punkt Untergruppe	... Claws or pins engaging holes in the film [1, 2006.01]
G03B 1/24	3-Punkt Untergruppe	... Sprockets engaging holes in the film [1, 2006.01]
G03B 1/26	3-Punkt Untergruppe	... Spiked wheels or pins not penetrating the film [1, 2006.01]
G03B 1/28	3-Punkt Untergruppe	... Shuttle feed [1, 2006.01]
G03B 1/30	3-Punkt Untergruppe	... Belt feed [1, 2006.01]
G03B 1/32	3-Punkt Untergruppe	... Friction grippers or rollers [1, 2006.01]
G03B 1/34	3-Punkt Untergruppe	... Beaters [1, 2006.01]
G03B 1/36	3-Punkt Untergruppe	... Pneumatic acting means [1, 2006.01]
G03B 1/38	2-Punkt Untergruppe	.. embodying Geneva motion, e.g. Maltese-cross gearing [1, 2006.01]
G03B 1/40	1-Punkt Untergruppe	. embodying frictional coupling or clutches [1, 2006.01]
G03B 1/42	1-Punkt Untergruppe	.. Guiding, framing, or constraining film in desired position relative to lens system [1, 2006.01]
G03B 1/44	2-Punkt Untergruppe	.. Guides engaging edge of film (gates G03B 1/48) [1, 2006.01]
G03B 1/46	2-Punkt Untergruppe	.. Rollers engaging face of film, e.g. barrel, waisted, conical (gates G03B 1/48) [1, 2006.01]
G03B 1/48	2-Punkt Untergruppe	.. Gates or pressure devices, e.g. plate [1, 2006.01]

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G03B 1/50	3-Punkt Untergruppe	... adjustable or interchangeable, e.g. for different film widths [1, 2006.01]
G03B 1/52	3-Punkt Untergruppe	... Pneumatic pressure devices [1, 2006.01]
G03B 1/54	2-Punkt Untergruppe	... Tensioning or loop-maintaining devices [1, 2006.01]
G03B 1/56	1-Punkt Untergruppe	. Threading; Loop forming [1, 2006.01]
G03B 1/58	2-Punkt Untergruppe	... automatic [1, 2006.01]
G03B 1/60	1-Punkt Untergruppe	. Measuring or indicating length of the used or unused film; Counting number of exposures [1, 2006.01]
G03B 1/62	2-Punkt Untergruppe	... involving locking or stop-motion devices [1, 2006.01]
G03B 1/64	2-Punkt Untergruppe	... by means which ascertain the radius of the film coiled on a spool [1, 2006.01]
G03B 1/66	2-Punkt Untergruppe	... Counting number of exposures [1, 2006.01]
<b>G03B 3/00</b>	<b>Hauptgruppe</b>	<b>Focusing arrangements of general interest for cameras, projectors or printers [1, 2006.01]</b>
G03B 3/02	1-Punkt Untergruppe	. moving lens along baseboard [1, 2006.01]
G03B 3/04	1-Punkt Untergruppe	. adjusting position of image plane without moving lens [1, 2006.01]
G03B 3/06	2-Punkt Untergruppe	... using movable reflectors to alter length of light-path [1, 2006.01]
G03B 3/10	1-Punkt Untergruppe	. Power-operated focusing [1, 2006.01]
G03B 3/12	2-Punkt Untergruppe	... adapted for remote control [1, 2006.01]
<b>G03B 5/00</b>	<b>Hauptgruppe</b>	<b>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]</b>
G03B 5/02	1-Punkt Untergruppe	. Lateral adjustment of lens [1, 2006.01]
G03B 5/04	1-Punkt Untergruppe	. Vertical adjustment of lens; Rising fronts [1, 2006.01]
G03B 5/06	1-Punkt Untergruppe	. Swinging lens about normal to the optical axis [1, 2006.01]
G03B 5/08	1-Punkt Untergruppe	. Swing backs [1, 2006.01]
<b><u>Details common to cameras</u></b>		
<b>G03B 7/00</b>	<b>Hauptgruppe</b>	<b>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]</b>
G03B 7/01	1-Punkt Untergruppe	. with selection of either manual or automatic mode [2014.01]
G03B 7/02	1-Punkt Untergruppe	. 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]
G03B 7/04	1-Punkt Untergruppe	. Control effected by hand adjustment of a member that senses indication of a pointer of a built-in light-sensitive device, e.g. by restoring pointer to a fixed associated reference mark [1, 2006.01]
G03B 7/06	2-Punkt Untergruppe	... by a follow-up movement of an associated reference mark to the pointer [1, 2006.01]
G03B 7/08	1-Punkt Untergruppe	. 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]
G03B 7/0805	2-Punkt Untergruppe	... Setting of priority modes [2014.01]
G03B 7/081	2-Punkt Untergruppe	... Analogue circuits [3, 2006.01]
G03B 7/083	3-Punkt Untergruppe	... for control of exposure time [3, 2006.01]

Symbol	Typ	Titel
G03B 7/085	3-Punkt Untergruppe	... for control of aperture [3, 2006.01]
G03B 7/087	3-Punkt Untergruppe	... for control of both exposure time and aperture [3, 2006.01]
G03B 7/089	3-Punkt Untergruppe	... for storage of exposure value in mirror reflex cameras [3, 2006.01]
G03B 7/091	2-Punkt Untergruppe	... Digital circuits [3, 2006.01]
G03B 7/093	3-Punkt Untergruppe	... for control of exposure time [3, 2006.01]
G03B 7/095	3-Punkt Untergruppe	... for control of aperture [3, 2006.01]
G03B 7/097	3-Punkt Untergruppe	... for control of both exposure time and aperture [3, 2006.01]
G03B 7/099	2-Punkt Untergruppe	... Arrangement of photoelectric elements in or on the camera [3, 2006.01, 2014.01]
G03B 7/0993	3-Punkt Untergruppe	... in the camera [2014.01]
G03B 7/0997	4-Punkt Untergruppe	.... Through the lens [TTL] measuring [2014.01]
G03B 7/10	2-Punkt Untergruppe	... a servo-motor providing energy to move the setting member [1, 2006.01]
G03B 7/12	2-Punkt Untergruppe	... a hand-actuated member moved from one position to another providing the energy to move the setting member, e.g. depression of shutter release button causes a stepped feeler to co-operate with the pointer of the light-sensitive device to set the diaphragm and thereafter release the shutter [1, 2006.01]
G03B 7/14	3-Punkt Untergruppe	... 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]
G03B 7/16	1-Punkt Untergruppe	. 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]
G03B 7/17	2-Punkt Untergruppe	... Selection of modes in flash units by exposure control arrangements [2014.01]
G03B 7/18	1-Punkt Untergruppe	. in accordance with light-reducing "factor" of filter or other obturator used with or on the lens of the camera [1, 2006.01]
G03B 7/20	1-Punkt Untergruppe	. in accordance with change of lens [1, 2006.01]
G03B 7/22	1-Punkt Untergruppe	. in accordance with temperature or height, e.g. in aircraft [1, 2006.01]
G03B 7/24	1-Punkt Untergruppe	. 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]
G03B 7/26	1-Punkt Untergruppe	. Power supplies; Circuitry or arrangement to switch on the power source; Circuitry to check the power source voltage [3, 2006.01]
G03B 7/28	1-Punkt Untergruppe	. Circuitry to measure or to take account of the object contrast [3, 2006.01]
G03B 7/30	1-Punkt Untergruppe	. Safety arrangements for control of exposure [2014.01]
<b>G03B 9/00</b>	<b>Hauptgruppe</b>	<b>Exposure-making shutters; Diaphragms [1, 2006.01]</b>
G03B 9/02	1-Punkt Untergruppe	. Diaphragms [1, 2, 2006.01]
G03B 9/04	2-Punkt Untergruppe	... Single movable plate with two or more apertures of graded size, e.g. sliding plate, pivoting plate [1, 2006.01]
G03B 9/06	2-Punkt Untergruppe	... Two or more co-operating pivoted blades e.g. iris type (shutters functioning as diaphragms by limiting extent of opening movement G03B 9/08) [1, 2006.01]
G03B 9/07	2-Punkt Untergruppe	... with means for presetting the diaphragm [1, 2006.01]

Symbol	Typ	Titel
G03B 9/08	1-Punkt Untergruppe	. Shutters [1, 2, 2006.01]
G03B 9/10	2-Punkt Untergruppe	... Blade or disc rotating or pivoting about axis normal to its plane [1, 2006.01]
G03B 9/12	3-Punkt Untergruppe	... Two relatively-adjustable aperture-defining members moving as a unit [1, 2006.01]
G03B 9/14	3-Punkt Untergruppe	... Two separate members moving in opposite directions [1, 2006.01]
G03B 9/16	3-Punkt Untergruppe	... Two separate members moving in the same direction [1, 2006.01]
G03B 9/18	3-Punkt Untergruppe	... More than two members [1, 2006.01]
G03B 9/20	4-Punkt Untergruppe	.... each moving in a single direction first to open and then to reclose [1, 2006.01]
G03B 9/22	4-Punkt Untergruppe	.... each moving in one direction to open and then in opposite direction to close, e.g. iris type [1, 2006.01]
G03B 9/24	3-Punkt Untergruppe	... Adjusting size of aperture formed by members when fully open so as to constitute a virtual diaphragm that is adjustable [1, 2006.01]
G03B 9/26	3-Punkt Untergruppe	... incorporating cover blade or blades [1, 2006.01]
G03B 9/28	2-Punkt Untergruppe	... Roller blind or flexible plate [1, 2006.01]
G03B 9/30	3-Punkt Untergruppe	... Single blind with multiple slots or other aperture [1, 2006.01]
G03B 9/32	3-Punkt Untergruppe	... Double blind [1, 2006.01]
G03B 9/34	4-Punkt Untergruppe	.... with adjustable slot; with mechanism controlling relative movement of blinds to form slot [1, 2006.01]
G03B 9/36	2-Punkt Untergruppe	... Sliding rigid plate [1, 2006.01]
G03B 9/38	3-Punkt Untergruppe	... Single rigid plate with multiple slots or other apertures [1, 2006.01]
G03B 9/40	3-Punkt Untergruppe	... Double plate [1, 2006.01]
G03B 9/42	4-Punkt Untergruppe	.... with adjustable slot; with mechanism controlling relative movement of plates to form slot [1, 2006.01]
G03B 9/44	3-Punkt Untergruppe	... Curved track and plate [1, 2006.01]
G03B 9/46	2-Punkt Untergruppe	... Flap shutters pivoting about axis in plane of flap [1, 2006.01]
G03B 9/48	3-Punkt Untergruppe	... Double flap [1, 2006.01]
G03B 9/50	3-Punkt Untergruppe	... Louvre type [1, 2006.01]
G03B 9/52	2-Punkt Untergruppe	... Barrel shutters [1, 2006.01]
G03B 9/54	2-Punkt Untergruppe	... Conical shutters; Rotating plate with axis of rotation inclined to optical axis of shutter [1, 2006.01]
G03B 9/58	1-Punkt Untergruppe	. Means for varying duration of "open" period of shutter [1, 2006.01]
G03B 9/60	2-Punkt Untergruppe	.. by varying speed of movement of obturating members [1, 2006.01]
G03B 9/62	2-Punkt Untergruppe	.. by varying interval of time between end of opening movement and beginning of closing movement [1, 2006.01]
G03B 9/64	1-Punkt Untergruppe	. Mechanism for delaying opening of shutter (separate from shutter G03B 17/38) [1, 2006.01]
G03B 9/66	1-Punkt Untergruppe	. Means for cocking shutter separate from means for releasing shutter [1, 2006.01]
G03B 9/68	2-Punkt Untergruppe	.. Cocking effected by movement of film [1, 2006.01]
G03B 9/70	1-Punkt Untergruppe	. with flash-synchronising contacts [1, 2006.01]

Symbol	Typ	Titel
<b>G03B 11/00</b>	<b>Hauptgruppe</b>	<b>Filters or other obturators specially adapted for photographic purposes [1, 2006.01]</b>
G03B 11/02	1-Punkt Untergruppe	. Sky masks [1, 2006.01]
G03B 11/04	1-Punkt Untergruppe	. Hoods or caps for eliminating unwanted light from lenses, viewfinders, or focusing aids [1, 2006.01]
G03B 11/06	2-Punkt Untergruppe	... Lens caps for exposure making [1, 2006.01]
<b>G03B 13/00</b>	<b>Hauptgruppe</b>	<b>Viewfinders; Focusing aids for cameras; Means for focusing for cameras; Autofocus systems for cameras [1, 5, 2006.01]</b>
G03B 13/02	1-Punkt Untergruppe	. Viewfinders [1, 2006.01]
G03B 13/04	2-Punkt Untergruppe	... of direct-vision type, e.g. frame, sighting mark [1, 2006.01]
G03B 13/06	2-Punkt Untergruppe	... with lenses with or without reflectors [1, 2006.01]
G03B 13/08	3-Punkt Untergruppe	... with reflected image of frame [1, 2006.01]
G03B 13/10	2-Punkt Untergruppe	... adjusting viewfinder field [1, 2006.01]
G03B 13/12	3-Punkt Untergruppe	... to compensate for change of camera lens or size of picture [1, 2006.01]
G03B 13/14	3-Punkt Untergruppe	... to compensate for parallax due to short range [1, 2006.01]
G03B 13/16	2-Punkt Untergruppe	... combined with focusing aids [1, 2006.01]
G03B 13/18	1-Punkt Untergruppe	. Focusing aids [1, 2006.01]
G03B 13/20	2-Punkt Untergruppe	... Rangefinders coupled with focusing arrangements, e.g. adjustment of rangefinder automatically focusing camera [1, 2006.01]
G03B 13/22	3-Punkt Untergruppe	... coupling providing for compensation upon change of camera lens [1, 2006.01]
G03B 13/24	2-Punkt Untergruppe	... Focusing screens [1, 2006.01]
G03B 13/26	3-Punkt Untergruppe	... with magnifiers for inspecting image formed on screen [1, 2006.01]
G03B 13/28	3-Punkt Untergruppe	... Image-splitting devices [1, 2006.01]
G03B 13/30	2-Punkt Untergruppe	... indicating depth of field [5, 2006.01]
G03B 13/32	1-Punkt Untergruppe	. Means for focusing [5, 2006.01]
G03B 13/34	2-Punkt Untergruppe	... Power focusing [5, 2006.01]
G03B 13/36	3-Punkt Untergruppe	... Autofocus systems [5, 2006.01]
<b>G03B 15/00</b>	<b>Hauptgruppe</b>	<b>Special procedures for taking photographs; Apparatus therefor [1, 2006.01]</b>
G03B 15/02	1-Punkt Untergruppe	. Illuminating scene [1, 2006.01]
G03B 15/03	2-Punkt Untergruppe	... Combinations of cameras with lighting apparatus; Flash units [1, 2006.01]
G03B 15/035	3-Punkt Untergruppe	... Combinations of cameras with incandescent lamps [1, 2006.01]
G03B 15/04	3-Punkt Untergruppe	... Combinations of cameras with non-electronic flash apparatus; Non-electronic flash units [1, 2006.01]
G03B 15/05	3-Punkt Untergruppe	... Combinations of cameras with electronic flash apparatus; Electronic flash units [1, 2006.01]
G03B 15/06	2-Punkt Untergruppe	... Special arrangements of screening, diffusing, or reflecting devices, e.g. in studio [1, 2006.01]
G03B 15/07	3-Punkt Untergruppe	... Arrangements of lamps in studios [1, 2006.01]
G03B 15/08	1-Punkt Untergruppe	. Trick photography [1, 2006.01]

Symbol	Typ	Titel
G03B 15/10	2-Punkt Untergruppe	... using back-projection, i.e. blending artificial background with real foreground [1, 2006.01]
G03B 15/12	2-Punkt Untergruppe	... using mirrors [1, 2006.01]
G03B 15/14	1-Punkt Untergruppe	. for taking photographs during medical operations [1, 2006.01]
G03B 15/16	1-Punkt Untergruppe	. for photographing the track of moving objects (high-speed photography G03B 39/00) [1, 2006.01]
<b>G03B 17/00</b>	<b>Hauptgruppe</b>	<b>Details of cameras or camera bodies; Accessories therefor (lens hoods or caps G03B 11/04) [1, 2006.01]</b>
G03B 17/02	1-Punkt Untergruppe	. Bodies [1, 2006.01]
G03B 17/04	2-Punkt Untergruppe	... collapsible, foldable or extensible, e.g. book type [1, 2006.01]
G03B 17/06	2-Punkt Untergruppe	... with exposure meters or other indicators built into body but not connected to other camera members [1, 2006.01]
G03B 17/08	2-Punkt Untergruppe	... Waterproof bodies or housings [1, 2006.01]
G03B 17/10	2-Punkt Untergruppe	... Soundproof bodies [1, 2006.01]
G03B 17/12	2-Punkt Untergruppe	... with means for supporting objectives, supplementary lenses, filters, masks, or turrets [1, 2006.01]
G03B 17/14	3-Punkt Untergruppe	... interchangeably [1, 2006.01]
G03B 17/16	2-Punkt Untergruppe	... for containing both motion-picture camera and still-picture camera [1, 2006.01]
G03B 17/17	2-Punkt Untergruppe	... with reflectors arranged in beam forming the photographic image, e.g. for reducing dimensions of camera [1, 2006.01]
G03B 17/18	1-Punkt Untergruppe	. Signals indicating condition of a camera member or suitability of light (indicating depth of field G03B 13/30) [1, 2006.01]
G03B 17/20	2-Punkt Untergruppe	... visible in viewfinder [1, 2006.01]
G03B 17/22	1-Punkt Untergruppe	. with means for cutting-off film [1, 2006.01]
G03B 17/24	1-Punkt Untergruppe	. with means for separately producing marks on the film, e.g. title, time of exposure [1, 2006.01]
G03B 17/26	1-Punkt Untergruppe	. Holders for containing light-sensitive material and adapted to be inserted within the camera (holders for X-ray films G03B 42/04) [1, 2, 2006.01]
G03B 17/28	1-Punkt Untergruppe	. Locating light-sensitive material within camera [1, 2006.01]
G03B 17/30	2-Punkt Untergruppe	... Locating spools or other rotatable holders of coiled film [1, 2006.01]
G03B 17/32	2-Punkt Untergruppe	... Locating plates or cut films [1, 2006.01]
G03B 17/34	3-Punkt Untergruppe	... Changing plates or cut films [1, 2006.01]
G03B 17/36	1-Punkt Untergruppe	. Counting number of exposures (of film strips G03B 1/66) [1, 2006.01]
G03B 17/38	1-Punkt Untergruppe	. Releasing-devices separate from shutter (integral with shutter G03B 9/08) [1, 2006.01]
G03B 17/40	2-Punkt Untergruppe	... with delayed or timed action [1, 2006.01]
G03B 17/42	1-Punkt Untergruppe	. Interlocking between shutter operation and advance of film or change of plate or cut-film [1, 2006.01]
G03B 17/44	1-Punkt Untergruppe	. Means for exchanging focusing screen and light-sensitive material [1, 2006.01]
G03B 17/46	1-Punkt Untergruppe	. Means for exposing single frames in motion-picture camera [1, 2006.01]
G03B 17/48	1-Punkt Untergruppe	. adapted for combination with other photographic or optical apparatus [1, 2006.01]

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G03B 17/50	2-Punkt Untergruppe	... with both developing and finishing apparatus [1, 2006.01]
G03B 17/52	3-Punkt Untergruppe	... of the Land type [1, 2006.01]
G03B 17/53	3-Punkt Untergruppe	... for automatically delivering a finished picture after a signal causing exposure has been given, e.g. by pushing a button, by inserting a coin [1, 2006.01]
G03B 17/54	2-Punkt Untergruppe	... with projector [1, 2006.01]
G03B 17/55	1-Punkt Untergruppe	. with provision for heating or cooling, e.g. in aircraft [1, 2006.01]
G03B 17/56	1-Punkt Untergruppe	. Accessories (carrying-cases A45C 11/38) [1, 2006.01]
G03B 17/58	2-Punkt Untergruppe	... Attachments for converting cameras into reflex cameras [1, 2006.01]
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<b>G03B 19/00</b>	<b>Hauptgruppe</b>	<b>Cameras (details G03B 17/00) [1, 2006.01]</b>
G03B 19/02	1-Punkt Untergruppe	. Still-picture cameras [1, 2006.01]
G03B 19/04	2-Punkt Untergruppe	... Roll-film cameras [1, 2006.01]
G03B 19/06	3-Punkt Untergruppe	... adapted to be loaded with more than one film, e.g. with exposure of one or the other at will (G03B 19/07 takes precedence) [1, 2006.01]
G03B 19/07	3-Punkt Untergruppe	... having more than one objective [1, 2006.01]
G03B 19/08	3-Punkt Untergruppe	... with provision for alternative use with plates or cut-films [1, 2006.01]
G03B 19/10	2-Punkt Untergruppe	... Plate or cut-film cameras (with provision for alternative use with roll film G03B 19/08) [1, 2006.01]
G03B 19/12	2-Punkt Untergruppe	... Reflex cameras with single objective and a movable reflector or a partly-transmitting mirror [1, 2006.01]
G03B 19/14	2-Punkt Untergruppe	... with paired lenses, one of which forms image on photographic material and the other forms a corresponding image on a focusing screen [1, 2006.01]
G03B 19/16	2-Punkt Untergruppe	... Pin-hole cameras [1, 2006.01]
G03B 19/18	1-Punkt Untergruppe	. Motion-picture cameras (with non-intermittently running film G03B 41/02) [1, 2006.01]
G03B 19/20	2-Punkt Untergruppe	... Reflex cameras [1, 2006.01]
G03B 19/22	2-Punkt Untergruppe	... Double cameras [1, 2006.01]
G03B 19/24	2-Punkt Untergruppe	... adapted to be loaded with more than one film, e.g. with exposure of one or the other at will [1, 2006.01]
G03B 19/26	2-Punkt Untergruppe	... with fade-in and fade-out effects [4, 2006.01]
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<b>G03B 21/00</b>	<b>Hauptgruppe</b>	<b>Projectors or projection-type viewers; Accessories therefor (devices for changing pictures G03B 23/00) [1, 2006.01]</b>
G03B 21/02	1-Punkt Untergruppe	. Multiple-film apparatus [1, 2006.01]
G03B 21/04	2-Punkt Untergruppe	... Picture "juke-boxes" [1, 2006.01]
G03B 21/06	1-Punkt Untergruppe	. affording only episcopic projection [1, 2006.01]
G03B 21/08	1-Punkt Untergruppe	. affording epidiascopic projection [1, 2006.01]
G03B 21/10	1-Punkt Untergruppe	. Projectors with built-in or built-on screen [1, 2006.01]
G03B 21/11	2-Punkt Untergruppe	... for microfilm reading [1, 2006.01]
G03B 21/12	1-Punkt Untergruppe	. adapted for projection of either still pictures or motion pictures (prolonged exhibition of single frame G03B 21/38) [1, 2006.01]

Symbol	Typ	Titel
G03B 21/13	1-Punkt Untergruppe	. Projectors for producing special effects at the edges of picture, e.g. blurring [1, 2006.01]
G03B 21/132	1-Punkt Untergruppe	. Overhead projectors, i.e. capable of projecting hand-writing or drawing during action (epidiascopic projectors G03B 21/08) [1, 2006.01]
G03B 21/134	1-Punkt Untergruppe	. Projectors combined with typing apparatus or with printing apparatus [1, 2006.01]
G03B 21/14	1-Punkt Untergruppe	. Details [1, 2006.01]
G03B 21/16	2-Punkt Untergruppe	... Cooling; Preventing overheating [1, 2006.01]
G03B 21/18	2-Punkt Untergruppe	... Fire preventing or extinguishing [1, 2006.01]
G03B 21/20	2-Punkt Untergruppe	... Lamp housings [1, 2006.01]
G03B 21/22	2-Punkt Untergruppe	... Soundproof bodies [1, 2006.01]
G03B 21/26	2-Punkt Untergruppe	... Projecting separately subsidiary matter simultaneously with main image [1, 2006.01]
G03B 21/28	2-Punkt Untergruppe	... Reflectors in projection beam [1, 2006.01]
G03B 21/30	2-Punkt Untergruppe	... adapted to collapse or fold, e.g. for portability [1, 2006.01]
G03B 21/32	2-Punkt Untergruppe	... Details specially adapted for motion-picture projection (with film moving continuously through the gate G03B 41/02) [1, 2006.01]
G03B 21/34	3-Punkt Untergruppe	... Change-over arrangements [1, 2006.01]
G03B 21/36	4-Punkt Untergruppe	.... Fades, dissolves, or wipes [1, 2006.01]
G03B 21/38	3-Punkt Untergruppe	... Prolonged exhibition of single frame [1, 2006.01]
G03B 21/40	3-Punkt Untergruppe	... Eliminating or reducing effect of flicker [1, 2006.01]
G03B 21/42	3-Punkt Untergruppe	... Preventing damage to film due to abnormal operation of projector [1, 2006.01]
G03B 21/43	3-Punkt Untergruppe	... Driving mechanisms [1, 2006.01]
G03B 21/44	4-Punkt Untergruppe	.... Mechanisms transmitting motion to film-strip feed; Mechanical linking of shutter and intermittent feed [1, 2006.01]
G03B 21/46	5-Punkt Untergruppe	..... affording adjustment for framing [1, 2006.01]
G03B 21/48	5-Punkt Untergruppe	..... for altering frame speed; for regulating constancy of film speed [1, 2006.01]
G03B 21/50	3-Punkt Untergruppe	... Control devices operated by the film strip during the run [1, 2006.01]
G03B 21/52	4-Punkt Untergruppe	.... by prepared film [1, 2006.01]
G03B 21/53	2-Punkt Untergruppe	.. Means for automatic focusing, e.g. to compensate thermal effects [5, 2006.01]
G03B 21/54	1-Punkt Untergruppe	. Accessories [1, 2006.01]
G03B 21/56	2-Punkt Untergruppe	.. Projection screens [1, 2006.01]
G03B 21/58	3-Punkt Untergruppe	... collapsible, e.g. foldable; of variable area [1, 2006.01, 2014.01]
G03B 21/585	4-Punkt Untergruppe	.... Inflatable screens [2014.01]
G03B 21/60	3-Punkt Untergruppe	... characterised by the nature of the surface [1, 2006.01, 2014.01]
G03B 21/602	4-Punkt Untergruppe	.... Lenticular screens (G03B 21/625 takes precedence) [2014.01]

Symbol	Typ	Titel
G03B 21/604	4-Punkt Untergruppe	.... Polarised screens [2014.01]
G03B 21/606	4-Punkt Untergruppe	.... for relief projection [2014.01]
G03B 21/608	4-Punkt Untergruppe	.... Fluid screens [2014.01]
G03B 21/62	4-Punkt Untergruppe	.... Translucent screens [1, 2006.01, 2014.01]
G03B 21/625	5-Punkt Untergruppe	..... Lenticular translucent screens [2014.01]
G03B 21/64	2-Punkt Untergruppe	.. Means for mounting individual pictures to be projected, e.g. frame for transparency [1, 2006.01]
<b>G03B 23/00</b>	<b>Hauptgruppe</b>	<b>Devices for changing pictures in viewing apparatus or projectors [1, 2006.01]</b>
G03B 23/02	1-Punkt Untergruppe	. in which a picture is removed from a stock and returned to the same stock or another one; Magazines therefor [1, 2006.01]
G03B 23/04	2-Punkt Untergruppe	.. with linear movement [1, 2006.01]
G03B 23/06	2-Punkt Untergruppe	.. with rotary movement [1, 2006.01]
G03B 23/08	1-Punkt Untergruppe	. in which pictures are attached to a movable carrier [1, 2006.01]
G03B 23/10	2-Punkt Untergruppe	.. drum or disc carrier [1, 2006.01]
G03B 23/12	2-Punkt Untergruppe	.. linear strip carrier [1, 2006.01]
G03B 23/14	1-Punkt Untergruppe	. Carriers operable to move pictures into, and out of, the projection or viewing position and carrying one or two pictures only in a removable manner (G03B 23/18 takes precedence) [1, 4, 2006.01]
G03B 23/18	1-Punkt Untergruppe	. with fade-in and fade-out effects [4, 2006.01]
<b>G03B 25/00</b>	<b>Hauptgruppe</b>	<b>Viewers, other than projection viewers, giving motion-picture effects by persistence of vision, e.g. zoetrope [1, 2006.01]</b>
G03B 25/02	1-Punkt Untergruppe	. with interposed lenticular or line screen [1, 2006.01]
<b>G03B 27/00</b>	<b>Hauptgruppe</b>	<b>Photographic printing apparatus [1, 2006.01]</b>
G03B 27/02	1-Punkt Untergruppe	. Exposure apparatus for contact printing [1, 2006.01]
G03B 27/04	2-Punkt Untergruppe	.. Copying apparatus without a relative movement between the original and the light source during exposure, e.g. printing frame, printing box [1, 2006.01]
G03B 27/06	3-Punkt Untergruppe	... for automatic repeated copying of the same original [1, 2006.01]
G03B 27/08	3-Punkt Untergruppe	... for automatic copying of several originals one after the other, e.g. for copying cinematograph film [1, 2006.01]
G03B 27/10	2-Punkt Untergruppe	.. Copying apparatus with a relative movement between the original and the light source during exposure [1, 2006.01]
G03B 27/12	3-Punkt Untergruppe	... for automatic repeated copying of the same original [1, 2006.01]
G03B 27/14	2-Punkt Untergruppe	.. Details [1, 2006.01]
G03B 27/16	3-Punkt Untergruppe	... Illumination arrangements, e.g. positioning of lamps, positioning of reflectors (controlling the exposure G03B 27/72) [1, 2006.01]
G03B 27/18	3-Punkt Untergruppe	... Maintaining or producing contact pressure between original and light-sensitive material [1, 2006.01]
G03B 27/20	4-Punkt Untergruppe	.... by using a vacuum or fluid pressure [1, 2006.01]
G03B 27/22	4-Punkt Untergruppe	.... by stretching over a curved surface [1, 2006.01]
G03B 27/24	3-Punkt Untergruppe	... Separating the original from the print [1, 2006.01]

Symbol	Typ	Titel
G03B 27/26	3-Punkt Untergruppe	... Cooling [1, 2006.01]
G03B 27/28	3-Punkt Untergruppe	... Edge-masking devices [1, 2006.01]
G03B 27/30	3-Punkt Untergruppe	... adapted to be combined with processing apparatus [1, 2006.01]
G03B 27/32	1-Punkt Untergruppe	. Projection printing apparatus, e.g. enlarger, copying camera [1, 2006.01]
G03B 27/34	2-Punkt Untergruppe	.. Means for automatic focusing therefor [1, 4, 2006.01]
G03B 27/36	3-Punkt Untergruppe	... by mechanical connections, e.g. by cam, by linkage [1, 2006.01]
G03B 27/38	4-Punkt Untergruppe	.... embodying screws with non-uniform pitch [1, 2006.01]
G03B 27/40	4-Punkt Untergruppe	.... adapted for use with lenses of different focal length [1, 2006.01]
G03B 27/42	2-Punkt Untergruppe	... for automatic sequential copying of the same original (G03B 27/34, G03B 27/53 take precedence) [1, 4, 2006.01]
G03B 27/44	2-Punkt Untergruppe	.. for multiple copying of the same original at the same time (G03B 27/34, G03B 27/53 take precedence) [1, 4, 2006.01]
G03B 27/46	2-Punkt Untergruppe	.. for automatic sequential copying of different originals, e.g. enlargers, roll film printers (G03B 27/34, G03B 27/50, G03B 27/53 take precedence) [1, 4, 2006.01]
G03B 27/465	3-Punkt Untergruppe	... at different positions of the same strip, e.g. microfilm [4, 2006.01]
G03B 27/47	3-Punkt Untergruppe	... at different positions of the same sheet, e.g. microfiche [4, 2006.01]
G03B 27/475	3-Punkt Untergruppe	... copying cinematographic film (G03B 27/48 takes precedence) [4, 2006.01]
G03B 27/48	3-Punkt Untergruppe	... with original in the form of a film strip moving continuously and compensation for consequent image movement [1, 2006.01]
G03B 27/50	2-Punkt Untergruppe	.. with slit or like diaphragm moving over original for progressive exposure (G03B 27/34 takes precedence) [1, 4, 2006.01]
G03B 27/52	2-Punkt Untergruppe	.. Details [1, 2006.01]
G03B 27/53	3-Punkt Untergruppe	... Automatic registration or positioning of originals with respect to each other or the photosensitive layer [4, 2006.01]
G03B 27/54	3-Punkt Untergruppe	... Lamp housings; Illuminating means [1, 2006.01]
G03B 27/56	3-Punkt Untergruppe	... Mounting enlarger head on column [1, 2006.01]
G03B 27/58	3-Punkt Untergruppe	... Baseboards, masking frames, or other holders for the sensitive material (G03B 27/53 takes precedence) [1, 4, 2006.01]
G03B 27/60	4-Punkt Untergruppe	.... using a vacuum or fluid pressure [1, 2006.01]
G03B 27/62	3-Punkt Untergruppe	... Holders for the original (G03B 27/53 takes precedence) [1, 4, 2006.01]
G03B 27/64	4-Punkt Untergruppe	.... using a vacuum or fluid pressure [1, 2006.01]
G03B 27/66	3-Punkt Untergruppe	... specially adapted for holding half-tone screens [1, 2006.01]
G03B 27/68	3-Punkt Untergruppe	... Introducing or correcting distortion, e.g. in connection with oblique projection [1, 2006.01]
G03B 27/70	3-Punkt Untergruppe	... Reflectors in printing beam [1, 2006.01]
G03B 27/72	1-Punkt Untergruppe	. Controlling or varying light intensity, spectral composition, or exposure time in photographic printing apparatus [1, 2006.01]

Symbol	Typ	Titel
G03B 27/73	2-Punkt Untergruppe	... Controlling exposure by variation of spectral composition, e.g. multicolor printers [3, 2006.01]
G03B 27/74	2-Punkt Untergruppe	... Positioning exposure meters in the apparatus [1, 2006.01]
G03B 27/80	2-Punkt Untergruppe	... in dependence upon automatic analysis of the original (G03B 27/73 takes precedence) [3, 2006.01]
<b>G03B 29/00</b>	<b>Hauptgruppe</b>	<b>Combinations of cameras, projectors or photographic printing apparatus with non-photographic non-optical apparatus, e.g. clocks or weapons; Cameras having the shape of other objects (combinations with flash apparatus G03B 15/03) [1, 2006.01]</b>
		<b><u>Special techniques</u></b>
<b>G03B 31/00</b>	<b>Hauptgruppe</b>	<b>Associated working of cameras or projectors with sound-recording or sound-reproducing means [1, 2006.01]</b>
G03B 31/02	1-Punkt Untergruppe	. in which sound track is on a moving-picture film [1, 2006.01]
G03B 31/04	1-Punkt Untergruppe	. in which sound track is not on, but is synchronised with, a moving-picture film [1, 2006.01]
G03B 31/06	1-Punkt Untergruppe	. in which sound track is associated with successively-shown still pictures [1, 2006.01]
G03B 31/08	1-Punkt Untergruppe	. with fade-in and fade-out effects [4, 2006.01]
<b>G03B 33/00</b>	<b>Hauptgruppe</b>	<b>Colour photography, other than mere exposure or projection of a colour film (printing apparatus G03B 27/00; stereoscopic colour photography G03B 35/00) [1, 2006.01]</b>
G03B 33/02	1-Punkt Untergruppe	. by two-colour separation records, e.g. red-aspect and white complete records; using Land effect [1, 2006.01]
G03B 33/04	1-Punkt Untergruppe	. by four or more separation records [1, 2006.01]
G03B 33/06	1-Punkt Untergruppe	. by additive-colour projection apparatus [1, 2006.01]
G03B 33/08	1-Punkt Untergruppe	. Sequential recording or projection (G03B 33/02, G03B 33/04, G03B 33/06 take precedence) [1, 2006.01]
G03B 33/10	1-Punkt Untergruppe	. Simultaneous recording or projection (G03B 33/02, G03B 33/04, G03B 33/06 take precedence) [1, 2006.01]
G03B 33/12	2-Punkt Untergruppe	... using beam-splitting or beam-combining systems, e.g. dichroic mirrors [1, 2006.01]
G03B 33/14	2-Punkt Untergruppe	... using lenticular screens (integral with film G03C) [1, 2006.01]
G03B 33/16	2-Punkt Untergruppe	... using colour-pattern screens (integral with film G03C) [1, 2006.01]
<b>G03B 35/00</b>	<b>Hauptgruppe</b>	<b>Stereoscopic photography [1, 2006.01]</b>
G03B 35/02	1-Punkt Untergruppe	. by sequential recording [1, 2006.01]
G03B 35/04	2-Punkt Untergruppe	... with movement of beam-selecting members in a system defining two or more viewpoints [1, 2006.01]
G03B 35/06	2-Punkt Untergruppe	... with axial movement of lens or gate between exposures [1, 2006.01]
G03B 35/08	1-Punkt Untergruppe	. by simultaneous recording [1, 2006.01]
G03B 35/10	2-Punkt Untergruppe	... having single camera with stereoscopic-base-defining system [1, 2006.01]
G03B 35/12	2-Punkt Untergruppe	... involving recording of different viewpoint images in different colours on a colour film [1, 2006.01]
G03B 35/14	1-Punkt Untergruppe	. Printing apparatus specially adapted for conversion between different types of record (G03B 42/08 takes precedence) [1, 4, 2006.01]
G03B 35/16	1-Punkt Untergruppe	. by sequential viewing [1, 2006.01]
G03B 35/18	1-Punkt Untergruppe	. by simultaneous viewing [1, 2006.01]
G03B 35/20	2-Punkt Untergruppe	... using two or more projectors [1, 2006.01]
G03B 35/22	2-Punkt Untergruppe	... using single projector with stereoscopic-base-defining system [1, 2006.01]

Symbol	Typ	Titel
G03B 35/24	2-Punkt Untergruppe	... using apertured or refractive resolving means on screen or between screen and eye [1, 2006.01]
G03B 35/26	2-Punkt Untergruppe	... using polarised or coloured light for separating different viewpoint images [1, 2006.01]
<b>G03B 37/00</b>	<b>Hauptgruppe</b>	<b>Panoramic or wide-screen photography; Photographing extended surfaces, e.g. for surveying; Photographing internal surfaces, e.g. of pipe [1, 2006.01]</b>
G03B 37/02	1-Punkt Untergruppe	. with scanning movement of lens or camera [1, 2006.01]
G03B 37/04	1-Punkt Untergruppe	. with cameras or projectors providing touching or overlapping fields of view [1, 2006.01]
G03B 37/06	1-Punkt Untergruppe	. involving anamorphosis (G03B 37/02, G03B 37/04 take precedence) [1, 2006.01]
<b>G03B 39/00</b>	<b>Hauptgruppe</b>	<b>High-speed photography [1, 2006.01]</b>
G03B 39/02	1-Punkt Untergruppe	. using stationary plate or film (G03B 39/06 takes precedence) [1, 2006.01]
G03B 39/04	1-Punkt Untergruppe	. using moving plate or film (G03B 39/06 takes precedence) [1, 2006.01]
G03B 39/06	1-Punkt Untergruppe	. using light-guides for transferring image frame or elements thereof into different array, e.g. into a line [1, 2006.01]
<b>G03B 41/00</b>	<b>Hauptgruppe</b>	<b>Special photographic techniques not covered by groups G03B 31/00-G03B 39/00; Apparatus therefor [1, 2, 2006.01]</b>
G03B 41/02	1-Punkt Untergruppe	. using non-intermittently-running film [1, 2006.01]
G03B 41/04	2-Punkt Untergruppe	... with optical compensator [1, 2006.01]
G03B 41/06	3-Punkt Untergruppe	... with rotating reflecting member [1, 2006.01]
G03B 41/08	3-Punkt Untergruppe	... with rotating transmitting member [1, 2006.01]
G03B 41/10	3-Punkt Untergruppe	... with oscillating reflecting member [1, 2006.01]
G03B 41/12	3-Punkt Untergruppe	... with oscillating transmitting member [1, 2006.01]
G03B 41/14	2-Punkt Untergruppe	... Overcoming image movement by brief flashes of light [1, 2006.01]
<b>G03B 42/00</b>	<b>Hauptgruppe</b>	<b>Obtaining records using waves other than optical waves; Visualisation of such records by using optical means [4, 2006.01]</b>
G03B 42/02	1-Punkt Untergruppe	. using X-rays [4, 2006.01]
G03B 42/04	2-Punkt Untergruppe	... Holders for X-ray films [4, 2006.01]
G03B 42/06	1-Punkt Untergruppe	. using ultrasonic, sonic or infrasonic waves [4, 2006.01]
G03B 42/08	1-Punkt Untergruppe	. Visualisation of records by optical means [4, 2006.01]
<b>G03B 43/00</b>	<b>Hauptgruppe</b>	<b>Testing correct operation of photographic apparatus or parts thereof [1, 2006.01]</b>
G03B 43/02	1-Punkt Untergruppe	. Testing shutters [1, 2006.01]