G	Sektion	SECTION G — PHYSICS
G02	Klasse	OPTICS (making optical elements or apparatus B24B, B29D 11/00, C03, or
		other appropriate subclasses or classes; materials <u>per se</u> , <u>see</u> the relevant
		places, e.g. C03B, C03C)
G02B	Unterklasse	OPTICAL ELEMENTS, SYSTEMS, OR APPARATUS (G02F takes precedence; optical elements specially adapted for use in lighting devices or systems thereof F21V 1/00-
		F21V 13/00; measuring-instruments, $\underline{\text{see}}$ the relevant subclass of class G01, e.g.
		optical rangefinders G01C; testing of optical elements, systems, or apparatus G01M 11/00; spectacles G02C; apparatus or arrangements for taking photographs or for projecting or viewing them G03B; sound lenses G10K 11/30; electron and ion "optics" H01J; X-ray "optics" H01J, H05G 1/00; optical elements structurally combined with electric discharge tubes H01J 5/16, H01J 29/89, H01J 37/22; microwave "optics" H01Q; combination of optical elements with television receivers H04N 5/72; optical systems or arrangements in colour television systems H04N 9/00; heating arrangements specially adapted for transparent or reflecting areas H05B 3/84) [1, 7]
G02B 1/00	Hauptgruppe	Optical elements characterised by the material of which they are made (compositions of optical glasses C03C 3/00); Optical coatings for optical elements
G02B 1/02	1-Punkt Untergruppe	. made of crystals, e.g. rock-salt, semiconductors (G02B 1/08 takes precedence)
G02B 1/04	1-Punkt Untergruppe	. made of organic materials, e.g. plastics (G02B 1/08 takes precedence)
G02B 1/06	1-Punkt Untergruppe	. made of fluids in transparent cells
G02B 1/08	1-Punkt Untergruppe	. made of polarising materials
G02B 1/10	1-Punkt Untergruppe	. Optical coatings produced by application to, or surface treatment of, optical elements (G02B 1/08 takes precedence)
G02B 1/11	2-Punkt Untergruppe	Anti-reflection coatings [6]
G02B 1/12	2-Punkt Untergruppe	by surface treatment, e.g. by irradiation
G02B 3/00	Hauptgruppe	Simple or compound lenses (artificial eyes A61F $2/14$; spectacle lenses or contact lenses for the eyes G02C; watch or clock glasses G04B $39/00$)
G02B 3/02	1-Punkt Untergruppe	. with non-spherical faces (G02B 3/10 takes precedence)
G02B 3/04	2-Punkt Untergruppe	with continuous faces that are rotationally symmetrical but deviate from a true sphere
G02B 3/06	2-Punkt Untergruppe	with cylindrical or toric faces
G02B 3/08	2-Punkt Untergruppe	with discontinuous faces, e.g. Fresnel lens
G02B 3/10	1-Punkt Untergruppe	. Bifocal lenses; Multifocal lenses
G02B 3/12	1-Punkt Untergruppe	. Fluid-filled or evacuated lenses
G02B 3/14	2-Punkt Untergruppe	of variable focal length
G02B 5/00	Hauptgruppe	Optical elements other than lenses (light guides G02B 6/00; optical logic elements G02F 3/00) [4]
G02B 5/02	1-Punkt Untergruppe	. Diffusing elements; Afocal elements
G02B 5/04	1-Punkt Untergruppe	. Prisms
G02B 5/06	2-Punkt Untergruppe	Fluid-filled or evacuated prisms
G02B 5/08	1-Punkt Untergruppe	. Mirrors

Symbol	Тур	Titel
G02B 5/09	2-Punkt Untergruppe	Multifaceted or polygonal mirrors [6]
G02B 5/10	2-Punkt Untergruppe	with curved faces
G02B 5/12	1-Punkt Untergruppe	. Reflex reflectors
G02B 5/122	2-Punkt Untergruppe	cube corner, trihedral or triple reflector type [2]
G02B 5/124	3-Punkt Untergruppe	plural reflecting elements forming part of a unitary plate or sheet [2]
G02B 5/126	2-Punkt Untergruppe	including curved refracting surface [2]
G02B 5/128	3-Punkt Untergruppe	transparent spheres being embedded in matrix [2]
G02B 5/13	3-Punkt Untergruppe	plural curved refracting elements forming part of a unitary body [2]
G02B 5/132	3-Punkt Untergruppe	with individual reflector mounting means [2]
G02B 5/134	4-Punkt Untergruppe	including a threaded mounting member [2]
G02B 5/136	2-Punkt Untergruppe	plural reflecting elements forming part of a unitary body (G02B 5/124 takes precedence) [2]
G02B 5/18	1-Punkt Untergruppe	. Diffracting gratings
G02B 5/20	1-Punkt Untergruppe	. Filters (polarising elements G02B 5/30; filters specially adapted for photographic purposes G03B 11/00)
G02B 5/22	2-Punkt Untergruppe	Absorbing filters
G02B 5/23	3-Punkt Untergruppe	Photochromic filters [2]
G02B 5/24	3-Punkt Untergruppe	Liquid filters (G02B 5/23 takes precedence) [2]
G02B 5/26	2-Punkt Untergruppe	Reflecting filters (G02B 5/28 takes precedence)
G02B 5/28	2-Punkt Untergruppe	Interference filters
G02B 5/30	1-Punkt Untergruppe	. Polarising elements (light-modulating devices G02F 1/00)
G02B 5/32	1-Punkt Untergruppe	. Holograms used as optical elements (processes or apparatus for producing holograms G03H) [2]
G02B 6/00	Hauptgruppe	Light guides; Structural details of arrangements comprising light guides and other optical elements, e.g. couplings [4, 6]
G02B 6/02	1-Punkt Untergruppe	. Optical fibre with cladding (mechanical structures for providing tensile strength and external protection G02B 6/44) [4, 2006.01]
G02B 6/024	2-Punkt Untergruppe	with polarisation-maintaining properties [2006.01]
G02B 6/028	2-Punkt Untergruppe	with core or cladding having graded refractive index [2006.01]
G02B 6/032	2-Punkt Untergruppe	with non-solid core or cladding [2006.01]
G02B 6/036	2-Punkt Untergruppe	core or cladding comprising multiple layers [2006.01]
G02B 6/04	1-Punkt Untergruppe	. formed by bundles of fibres (G02B 6/24 takes precedence) [4]
G02B 6/06	2-Punkt Untergruppe	the relative position of the fibres being the same at both ends, e.g. for transporting images [4]
G02B 6/08	3-Punkt Untergruppe	with fibre bundle in form of plate [4]

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the control of light by electric, reagenetic, electron-magnetic or accurate means CREP 2009, International means CREP 2009, International means CREP 2009, International means that produced memory control means that produced means that a control devices CREP 2019, potent analysis NaDP; transmission of information by optical means that 1142, electric waveguides NaDP; transmission of information by optical means that 1142, electric waveguides NaDP; transmission of information by optical means that 1142, electric waveguides NaDP; transmission of information by optical means that 1142, electric waveguides NaDP; transmission of information by optical publication or processing of single crystatic C3004, electric integrated circuits NaDP; transmission of integrated gratings (s) 1028 6/122 3-Punkt Untergruppe Beautic optical clements. e.g. light-guiding paths (s) 1028 6/123 3-Punkt Untergruppe Light-guided optical circuits characterised by the manufacturing method (6) 1028 6/123 3-Punkt Untergruppe by deposition of thin films (s) 1028 6/124 4-Punkt Untergruppe by substitution by deponit atoms (6) 1028 6/124 3-Punkt Untergruppe by substitution by deponit atoms (6) 1028 6/124 3-Punkt Untergruppe by substitution by deponit atoms (6) 1028 6/125 3-Punkt Untergruppe by substitution by deponit atoms (6) 1028 6/126 Geldschit (covered by C008 6/02) 1028 6/127 Geldschit (transferred to 6/028 6/028) 1028 6/128 3-Punkt Untergruppe Removing protective coverings of light guides before coupling (5) 1028 6/129 3-Punkt Untergruppe Preparing the ends of light guides for coupling, e.g. cutting (5) 1028 6/24 3-Punkt Untergruppe Preparing the ends of light guides for coupling, e.g. cutting (5) 1028 6/25 3-Punkt Untergruppe Preparing the ends of light guides for coupling, e.g. cutting (5) 1028 6/26 3-Punkt Untergruppe Preparing the ends of light guides for coupling, e.g. cutting (6) 1028 6/27 3-Punkt Untergruppe Splicing of light guides for electric waveguides interconnected	Symbol	Тур	Titel
H01L 27/00] [4] G02B 6/122 3-Punkt Untergruppe Basic optical elements, e.g. light-guiding paths [6] G02B 6/124 4-Punkt Untergruppe Geodesic lenses or integrated gratings [6] G02B 6/125 4-Punkt Untergruppe Bends, branchings or intersections [6] G02B 6/126 3-Punkt Untergruppe using polarisation effects [6] G02B 6/13 3-Punkt Untergruppe by deposition of thin films [6] G02B 6/132 4-Punkt Untergruppe by deposition of thin films [6] G02B 6/133 4-Punkt Untergruppe by substitution by dopant atoms [6] G02B 6/134 4-Punkt Untergruppe by using polymerisation [6] G02B 6/135 4-Punkt Untergruppe by using polymerisation [6] G02B 6/136 4-Punkt Untergruppe by using polymerisation [6] G02B 6/136 4-Punkt Untergruppe by using polymerisation [6] G02B 6/14 2-Punkt Untergruppe Mode converters [4] G02B 6/16 Gelöscht (covered by G02B 6/02) G02B 6/17 Gelöscht (transferred to G02B 6/028) G02B 6/18 Gelöscht (transferred to G02B 6/028) G02B 6/20 Gelöscht (transferred to G02B 6/032) G02B 6/22 Gelöscht (transferred to G02B 6/032) G02B 6/24 1-Punkt Untergruppe Coupling light guides for electric waveguides H01P 1/00 [4, 5] G02B 6/25 2-Punkt Untergruppe Splicing of light guides for electric waveguides H01P 1/00 [4, 5] G02B 6/25 2-Punkt Untergruppe Splicing of light guides for coupling, e.g., cutting [5] G02B 6/26 2-Punkt Untergruppe with polarisation selective and adjusting means (polarisation elements in general G02B 5/30; polarisation systems in general G02B 5/7788, optical polarisation multipliex systems H04] 14/06) [6] G02B 6/28 4-Punkt Untergruppe Structuring of light guides to shape optical elements in use, gg the relevant subgroups of this subclass; optical wavelength-division multiplexing systems H04] 14/00 [6] G02B 6/28 4-Punkt Untergruppe Structuring of light guides to shape optical elements in use, gg the relevant subgroups of this subclass; optical wavelength-division multiplexing systems H04] 14/02 [6]	G02B 6/10	1-Punkt Untergruppe	the control of light by electric, magnetic, electro-magnetic or acoustic means G02F 1/00; transferring the modulation of modulated light G02F 2/00; optical logic elements G02F 3/00; optical analogue/digital converters G02F 7/00; stores using opto-electronic devices G11C 11/42; electric waveguides H01P;
6028 6/124	G02B 6/12	2-Punkt Untergruppe	
6028 6/125 4-Punkt Untergruppe Bends, branchings or intersections [6] 6028 6/13 3-Punkt Untergruppe integrated optical circuits characterised by the manufacturing method [6] 6028 6/13 4-Punkt Untergruppe by deposition of thin films [6] 6028 6/133 4-Punkt Untergruppe by deposition of thin films [6] 6028 6/134 4-Punkt Untergruppe by substitution by dopant atoms [6] 6028 6/136 4-Punkt Untergruppe by substitution by dopant atoms [6] 6028 6/138 4-Punkt Untergruppe by using polymerisation [6] 6028 6/14 2-Punkt Untergruppe by using polymerisation [6] 6028 6/14 2-Punkt Untergruppe Mode converters [4] 6028 6/16 Gelöscht (covered by G028 6/02) 6028 6/17 Gelöscht (transferred to G028 6/02) 6028 6/18 Gelöscht (transferred to G028 6/02) 6028 6/20 Gelöscht (transferred to G028 6/03) 6028 6/22 Gelöscht (transferred to G028 6/03) 6028 6/22 Gelöscht (transferred to G028 6/03) 6028 6/24 1-Punkt Untergruppe Coupling light guides (for electric waveguides H01P 1/00) [4, 5] 6028 6/25 2-Punkt Untergruppe Penaring the ends of light guides before coupling [5] 6028 6/25 2-Punkt Untergruppe Optical coupling means (G028 6/36 6/32 take precedence) [4] 6028 6/27 3-Punkt Untergruppe Optical coupling means (G028 6/36, G028 6/42 take precedence) [4] 6028 6/28 3-Punkt Untergruppe having data bus means, i.e. plural waveguides interconnected and providing an inherently bidirectional system by mixing and splitting signals [4] 6028 6/28 4-Punkt Untergruppe Structuring of light guides to shape optical elements in use, see the relevant subgroups of this subclass; optical wavelength-division multiplexing systems H04] 14/02) [6] 6028 6/29 3-Punkt Untergruppe for use between fibre and thin-film device [4] 6028 6/32 3-Punkt Untergruppe having lens focusing means [4]	G02B 6/122	3-Punkt Untergruppe	Basic optical elements, e.g. light-guiding paths [6]
G028 6/126 3-Punkt Untergruppe using polarisation effects [6] G028 6/133 3-Punkt Untergruppe by deposition of thin films [6] G028 6/134 4-Punkt Untergruppe by deposition of thin films [6] G028 6/134 4-Punkt Untergruppe by substitution by dopant atoms [6] G028 6/136 4-Punkt Untergruppe by using polymerisation [6] G028 6/138 4-Punkt Untergruppe by using polymerisation [6] G028 6/14 2-Punkt Untergruppe Mode converters [4] G028 6/16 G086 6/17 Geldscht (covered by G028 6/02) G028 6/18 G088 6/18 G088 6/19 G088 6/20 G088 6/21 G088 6/22 Geldscht (transferred to G028 6/02) G028 6/22 Geldscht (transferred to G028 6/02) G028 6/22 G028 6/24 1-Punkt Untergruppe Coupling light guides (for electric waveguides H01P 1/00) [4, 5] G028 6/25 2-Punkt Untergruppe Preparing the ends of light guides before coupling [5] G028 6/25 2-Punkt Untergruppe Splicing of light guides for coupling, e.g. cutting [5] G028 6/25 2-Punkt Untergruppe Optical coupling means (G028 6/36, G028 6/42 take precedence) [4] G028 6/26 3-Punkt Untergruppe with polarisation selective and adjusting means (polarisation elements in general G028 5/30; polarisation system by mixing and splitting signals [4] G028 6/28 4-Punkt Untergruppe having data bus means, i.e. plural waveguides interconnected and providing an inherently bidirectional system by mixing and splitting signals [4] G028 6/28 4-Punkt Untergruppe Structuring of light guides to shape optical elements in use, see the relevant subgroups of this subclass; optical wavelength-division multiplexing systems H04J 14/02) [6] G028 6/29 3-Punkt Untergruppe for use between fibre and thin-film device [4] G028 6/23 3-Punkt Untergruppe having lens focusing means [4]	G02B 6/124	4-Punkt Untergruppe	Geodesic lenses or integrated gratings [6]
3-Punkt Untergruppe integrated optical circuits characterised by the manufacturing method [6] 6028 6/132	G02B 6/125	4-Punkt Untergruppe	Bends, branchings or intersections [6]
4-Punkt Untergruppe by deposition of thin films [6] 6028 6/134 4-Punkt Untergruppe by substitution by dopant atoms [6] 6028 6/136 4-Punkt Untergruppe by substitution by dopant atoms [6] 6028 6/138 4-Punkt Untergruppe by using polymerisation [6] 6028 6/14 2-Punkt Untergruppe by using polymerisation [6] 6028 6/16 Gelöscht (covered by G028 6/02) 6028 6/17 Gelöscht (transferred to G028 6/02) 6028 6/18 Gelöscht (transferred to G028 6/02) 6028 6/20 Gelöscht (transferred to G028 6/02) 6028 6/20 Gelöscht (transferred to G028 6/02) 6028 6/22 Gelöscht (transferred to G028 6/03) 6028 6/24 1-Punkt Untergruppe Removing protective coverings of light guides before coupling [5] 6028 6/25 2-Punkt Untergruppe Preparing the ends of light guides for coupling, e.g. cutting [5] 6028 6/25 2-Punkt Untergruppe Splicing of light guides for coupling, e.g. cutting [5] 6028 6/25 2-Punkt Untergruppe Splicing of light guides, e.g. by fusion or bonding [5] 6028 6/26 2-Punkt Untergruppe Splicing of light guides, e.g. by fusion or bonding [5] 6028 6/27 3-Punkt Untergruppe with polarisation selective and adjusting means (polarisation elements in general G028 5/30; polarisation systems in general G028 6/25 1/28, optical polarisation multiplex systems H04 14/05 [6] 6028 6/29 4-Punkt Untergruppe Structuring of light guides to shape optical elements with heat application (G028 6/255 takes precedence) [4] 6028 6/29 4-Punkt Untergruppe Structuring of light guides to shape optical elements in use, see the relevant subgroups of this subclass; optical wavelengths and thin-film device [4] 6028 6/30 3-Punkt Untergruppe having lens focusing means [4]	G02B 6/126	3-Punkt Untergruppe	using polarisation effects [6]
4-Punkt Untergruppe by substitution by dopant atoms [6] 6028 6/136	G02B 6/13	3-Punkt Untergruppe	Integrated optical circuits characterised by the manufacturing method [6]
4-Punkt Untergruppe by etching [6] 6028 6/138 4-Punkt Untergruppe by using polymerisation [6] 6028 6/14 2-Punkt Untergruppe Mode converters [4] 6028 6/16 Gelöscht (covered by G028 6/02) 6028 6/17 Gelöscht (transferred to G028 6/024) 6028 6/18 Gelöscht (transferred to G028 6/028) 6028 6/20 Gelöscht (transferred to G028 6/032) 6028 6/20 Gelöscht (transferred to G028 6/032) 6028 6/22 Gelöscht (transferred to G028 6/032) 6028 6/24 1-Punkt Untergruppe Coupling light guides (for electric waveguides H01P 1/00) [4, 5] 6028 6/25 2-Punkt Untergruppe Removing protective coverings of light guides before coupling [5] 6028 6/25 2-Punkt Untergruppe Splicing of light guides, e.g., by fusion or bonding [5] 6028 6/26 2-Punkt Untergruppe Optical coupling means (G028 6/36, G028 6/42 take precedence) [4] 6028 6/27 3-Punkt Untergruppe with polarisation selective and adjusting means (polarisation elements in general G028 5/30; polarisation systems in general G028 5/728; optical polarisation multiplex systems H04J 14/06) [6] 6028 6/28 3-Punkt Untergruppe having data bus means, i.e. plural waveguides interconnected and providing an inherently bidirectional system by mixing and splitting signals [4] 6028 6/28 4-Punkt Untergruppe Structuring of light guides to shape optical elements with heat application (G028 6/25 takes precedence) [6] 6028 6/29 3-Punkt Untergruppe with wavelength selective means (for optical elements in use, see the relevant subgroups of this subclass; optical wavelength-division multiplexing systems H04J 14/02) [6] 6028 6/30 3-Punkt Untergruppe having lens focusing means [4]	G02B 6/132	4-Punkt Untergruppe	by deposition of thin films [6]
G02B 6/138	G02B 6/134	4-Punkt Untergruppe	by substitution by dopant atoms [6]
G028 6/14 2-Punkt Untergruppe Mode converters [4] G028 6/16 Gelöscht (covered by G028 6/02) G028 6/17 Gelöscht (transferred to G028 6/024) G028 6/18 Gelöscht (transferred to G028 6/028) G028 6/18 Gelöscht (transferred to G028 6/028) G028 6/20 Gelöscht (transferred to G028 6/025) G028 6/22 Gelöscht (transferred to G028 6/036) G028 6/24 1-Punkt Untergruppe Coupling light guides (for electric waveguides H01P 1/00) [4, 5] G028 6/24 2-Punkt Untergruppe Removing protective coverings of light guides before coupling [5] G028 6/25 2-Punkt Untergruppe Preparing the ends of light guides for coupling, e.g. cutting [5] G028 6/25 2-Punkt Untergruppe Splicing of light guides, e.g. by fusion or bonding [5] G028 6/26 2-Punkt Untergruppe Optical coupling means (G028 6/36, G028 6/42 take precedence) [4] G028 6/26 2-Punkt Untergruppe with polarisation selective and adjusting means (polarisation elements in general G028 5/30; polarisation systems in general G028 27/28; optical polarisation multiplex systems H04] 14/06) [6] G028 6/28 3-Punkt Untergruppe having data bus means, i.e. plural waveguides interconnected and providing an inherently bidirectional system by mixing and splitting signals [4] G028 6/29 4-Punkt Untergruppe Structuring of light guides to shape optical elements with heat application (G028 6/255 takes precedence) [6] G028 6/30 3-Punkt Untergruppe for use between fibre and thin-film device [4] G028 6/30 3-Punkt Untergruppe having lens focusing means [4]	G02B 6/136	4-Punkt Untergruppe	by etching [6]
Gelöscht (covered by G028 6/02) Gelöscht (transferred to G028 6/024) Gelöscht (transferred to G028 6/028) Gelöscht (transferred to G028 6/028) Gelöscht (transferred to G028 6/028) G028 6/22 Gelöscht (transferred to G028 6/032) G028 6/24 1-Punkt Untergruppe . Coupling light guides (for electric waveguides H01P 1/00) [4, 5] G028 6/25 2-Punkt Untergruppe . Preparing the ends of light guides before coupling [5] G028 6/25 2-Punkt Untergruppe . Splicing of light guides, e.g. by fusion or bonding [5] G028 6/26 2-Punkt Untergruppe . Optical coupling means (G028 6/36, G028 6/32 take precedence) [4] G028 6/26 2-Punkt Untergruppe with polarisation selective and adjusting means (polarisation elements in general G028 5/30; polarisation systems in general G028 27/28; optical polarisation multiplex systems H04] 14/06) [6] G028 6/28 3-Punkt Untergruppe having data bus means, i.e. plural waveguides interconnected and providing an inherently bidirectional system by mixing and splitting signals [4] G028 6/293 4-Punkt Untergruppe with wavelength selective means (for optical elements in use, see the relevant subgroups of this subclass; optical wavelength-division multiplexing systems H04] 14/02) [6] G028 6/30 3-Punkt Untergruppe for use between fibre and thin-film device [4] G028 6/32 3-Punkt Untergruppe having lens focusing means [4]	G02B 6/138	4-Punkt Untergruppe	by using polymerisation [6]
Gelöscht (transferred to G028 6/024) Gelöscht (transferred to G028 6/028) Gelöscht (transferred to G028 6/028) Gelöscht (transferred to G028 6/032) Gelöscht (transferred to G028 6/036) G028 6/22 Gelöscht (transferred to G028 6/036) G028 6/24 1-Punkt Untergruppe . Coupling light guides (for electric waveguides H01P 1/00) [4, 5] G028 6/245 2-Punkt Untergruppe Removing protective coverings of light guides before coupling [5] G028 6/25 2-Punkt Untergruppe Preparing the ends of light guides for coupling, e.g. cutting [5] G028 6/25 2-Punkt Untergruppe Splicing of light guides, e.g. by fusion or bonding [5] G028 6/26 2-Punkt Untergruppe Optical coupling means (G028 6/36, G028 6/42 take precedence) [4] G028 6/26 3-Punkt Untergruppe with polarisation selective and adjusting means (polarisation elements in general G028 5/30; polarisation systems in general G028 27/28; optical polarisation multiplex systems H04J 14/06) [6] G028 6/28 3-Punkt Untergruppe having data bus means, i.e. plural waveguides interconnected and providing an inherently bidirectional system by mixing and splitting signals [4] G028 6/29 4-Punkt Untergruppe Structuring of light guides to shape optical elements with heat application (G028 6/255 takes precedence) [6] G028 6/30 3-Punkt Untergruppe with wavelength selective means (for optical elements in use, see the relevant subgroups of this subclass; optical wavelength-division multiplexing systems H04J 14/02) [6] G028 6/32 3-Punkt Untergruppe for use between fibre and thin-film device [4]	G02B 6/14	2-Punkt Untergruppe	Mode converters [4]
Gelöscht (transferred to G028 6/028) Gelöscht (transferred to G028 6/029) Gelöscht (transferred to G028 6/032) Gelöscht (transferred to G028 6/036) G028 6/24 1-Punkt Untergruppe Coupling light guides (for electric waveguides H01P 1/00) [4, 5] G028 6/24 2-Punkt Untergruppe Preparing the ends of light guides before coupling [5] G028 6/25 2-Punkt Untergruppe Preparing the ends of light guides for coupling, e.g. cutting [5] G028 6/25 2-Punkt Untergruppe Preparing the ends of light guides for coupling, e.g. cutting [5] G028 6/25 2-Punkt Untergruppe Preparing the ends of light guides, e.g. by fusion or bonding [5] G028 6/26 2-Punkt Untergruppe Preparing the ends of light guides, e.g. by fusion or bonding [5] G028 6/26 2-Punkt Untergruppe Preparing the ends of light guides, e.g. by fusion or bonding [5] G028 6/26 3-Punkt Untergruppe Preparing the ends of light guides, e.g. by fusion or bonding [5] G028 6/26 3-Punkt Untergruppe Preparing the ends of light guides, e.g. by fusion or bonding [5] G028 6/27 3-Punkt Untergruppe Preparing the ends of light guides, e.g. by fusion or bonding [5] G028 6/28 3-Punkt Untergruppe Preparing the ends of light guides, e.g. by fusion or bonding [5] G028 6/28 3-Punkt Untergruppe Preparing the ends of light guides, e.g. by fusion or bonding [5] G028 6/28 4-Punkt Untergruppe Preparing the ends of light guides to shape optical plantisation multiplex systems H04J 14/06) [6] G028 6/29 4-Punkt Untergruppe Preparing the ends of light guides to shape optical elements in use, see the relevant subgroups of this subclass; optical wavelength-division multiplexing systems H04J 14/02) [6] G028 6/32 3-Punkt Untergruppe Preparing the ends of light guides to shape optical elements in use, see the relevant subgroups of this subclass; optical wavelength-division multiplexing systems H04J 14/02) [6]	G02B 6/16	Gelöscht	(covered by G02B 6/02)
GO2B 6/20 Gelöscht (transferred to GO2B 6/032) GO2B 6/22 Gelöscht (transferred to GO2B 6/036) GO2B 6/24 1-Punkt Untergruppe . Coupling light guides (for electric waveguides H01P 1/00) [4, 5] GO2B 6/24 2-Punkt Untergruppe . Removing protective coverings of light guides before coupling [5] GO2B 6/25 2-Punkt Untergruppe . Preparing the ends of light guides for coupling, e.g. cutting [5] GO2B 6/25 2-Punkt Untergruppe . Splicing of light guides, e.g. by fusion or bonding [5] GO2B 6/25 2-Punkt Untergruppe . Optical coupling means (GO2B 6/36, GO2B 6/42 take precedence) [4] GO2B 6/26 2-Punkt Untergruppe with polarisation selective and adjusting means (polarisation elements in general GO2B 5/30; polarisation systems in general GO2B 27/28; optical polarisation multiplex systems H04J 14/06) [6] GO2B 6/28 3-Punkt Untergruppe having data bus means, i.e. plural waveguides interconnected and providing an inherently bidirectional system by mixing and splitting signals [4] GO2B 6/287 4-Punkt Untergruppe Structuring of light guides to shape optical elements with heat application (GO2B 6/255 takes precedence) [6] GO2B 6/30 3-Punkt Untergruppe with wavelength selective means (for optical elements in use, see the relevant subgroups of this subclass; optical wavelength-division multiplexing systems H04J 14/02) [6] GO2B 6/30 3-Punkt Untergruppe for use between fibre and thin-film device [4] GO2B 6/32 3-Punkt Untergruppe having lens focusing means [4]	G02B 6/17	Gelöscht	(transferred to G02B 6/024)
G02B 6/24 1-Punkt Untergruppe Coupling light guides (for electric waveguides H01P 1/00) [4, 5] 2-Punkt Untergruppe Preparing the ends of light guides for coupling, e.g. cutting [5] 2-Punkt Untergruppe Preparing the ends of light guides for coupling, e.g. cutting [5] 2-Punkt Untergruppe Preparing the ends of light guides for coupling, e.g. cutting [5] 2-Punkt Untergruppe Preparing the ends of light guides for coupling, e.g. cutting [5] 2-Punkt Untergruppe Preparing the ends of light guides for coupling, e.g. cutting [5] 2-Punkt Untergruppe Preparing the ends of light guides for coupling, e.g. cutting [5] 2-Punkt Untergruppe Preparing the ends of light guides for coupling, e.g. cutting [5] 2-Punkt Untergruppe Preparing the ends of light guides for coupling, e.g. cutting [5] 3-Punkt Untergruppe Preparing full guides for coupling, e.g. cutting [5] 3-Punkt Untergruppe Preparing full guides for coupling, e.g. cutting [5] 3-Punkt Untergruppe Preparing full guides for coupling, e.g. cutting [5] 3-Punkt Untergruppe Preparing full guides for coupling, e.g. cutting [5] 3-Punkt Untergruppe Preparing full guides for coupling, e.g. cutting [5] 3-Punkt Untergruppe Preparing full guides for coupling, e.g. cutting [5] A-Punkt Untergruppe Preparing full guides for coupling, e.g. cutting [5] A-Punkt Untergruppe Preparing full guides for coupling, e.g. cutting [5] A-Punkt Untergruppe Preparing full guides for coupling, e.g. cutting [5] A-Punkt Untergruppe Preparing full guides for coupling, e.g. cutting [5] A-Punkt Untergruppe Preparing full guides for coupling full guides for coupling, e.g. cutting [5] A-Punkt Untergruppe Preparing full guides for coupling full guid	G02B 6/18	Gelöscht	(transferred to G02B 6/028)
1-Punkt Untergruppe . Coupling light guides (for electric waveguides H01P 1/00) [4, 5] 2-Punkt Untergruppe Removing protective coverings of light guides before coupling [5] 2-Punkt Untergruppe Preparing the ends of light guides for coupling, e.g. cutting [5] 2-Punkt Untergruppe Splicing of light guides, e.g. by fusion or bonding [5] 2-Punkt Untergruppe Optical coupling means (G02B 6/36, G02B 6/42 take precedence) [4] 3-Punkt Untergruppe with polarisation selective and adjusting means (polarisation elements in general G02B 5/30; polarisation systems in general G02B 27/28; optical polarisation multiplex systems H04J 14/06) [6] 3-Punkt Untergruppe having data bus means, i.e. plural waveguides interconnected and providing an inherently bidirectional system by mixing and splitting signals [4] 4-Punkt Untergruppe Structuring of light guides to shape optical elements with heat application (G02B 6/255 takes precedence) [6] 3-Punkt Untergruppe with wavelength selective means (for optical elements in use, see the relevant subgroups of this subclass; optical wavelength-division multiplexing systems H04J 14/02) [6] 3-Punkt Untergruppe for use between fibre and thin-film device [4] 3-Punkt Untergruppe having lens focusing means [4]	G02B 6/20	Gelöscht	(transferred to G02B 6/032)
2-Punkt Untergruppe Removing protective coverings of light guides before coupling [5] 2-Punkt Untergruppe Preparing the ends of light guides for coupling, e.g. cutting [5] 2-Punkt Untergruppe Splicing of light guides, e.g. by fusion or bonding [5] 2-Punkt Untergruppe Optical coupling means (G02B 6/36, G02B 6/42 take precedence) [4] 3-Punkt Untergruppe with polarisation selective and adjusting means (polarisation elements in general G02B 5/30; polarisation systems in general G02B 27/28; optical polarisation multiplex systems H04J 14/06) [6] 3-Punkt Untergruppe having data bus means, i.e. plural waveguides interconnected and providing an inherently bidirectional system by mixing and splitting signals [4] 4-Punkt Untergruppe Structuring of light guides to shape optical elements with heat application (G02B 6/255 takes precedence) [6] 4-Punkt Untergruppe with wavelength selective means (for optical elements in use, see the relevant subgroups of this subclass; optical wavelength-division multiplexing systems H04J 14/02) [6] 3-Punkt Untergruppe for use between fibre and thin-film device [4] 3-Punkt Untergruppe having lens focusing means [4]	G02B 6/22	Gelöscht	(transferred to G02B 6/036)
G02B 6/25 2-Punkt Untergruppe Preparing the ends of light guides for coupling, e.g. cutting [5] G02B 6/255 2-Punkt Untergruppe Splicing of light guides, e.g. by fusion or bonding [5] G02B 6/26 2-Punkt Untergruppe Optical coupling means (G02B 6/36, G02B 6/42 take precedence) [4] G02B 6/27 3-Punkt Untergruppe with polarisation selective and adjusting means (polarisation elements in general G02B 5/30; polarisation systems in general G02B 27/28; optical polarisation multiplex systems H04J 14/06) [6] G02B 6/28 3-Punkt Untergruppe having data bus means, i.e. plural waveguides interconnected and providing an inherently bidirectional system by mixing and splitting signals [4] G02B 6/287 4-Punkt Untergruppe Structuring of light guides to shape optical elements with heat application (G02B 6/255 takes precedence) [6] G02B 6/293 4-Punkt Untergruppe with wavelength selective means (for optical elements in use, see the relevant subgroups of this subclass; optical wavelength-division multiplexing systems H04J 14/02) [6] G02B 6/30 3-Punkt Untergruppe for use between fibre and thin-film device [4] G02B 6/32 3-Punkt Untergruppe having lens focusing means [4]	G02B 6/24	1-Punkt Untergruppe	. Coupling light guides (for electric waveguides H01P 1/00) [4, 5]
G02B 6/255 2-Punkt Untergruppe Splicing of light guides, e.g. by fusion or bonding [5] G02B 6/26 2-Punkt Untergruppe Optical coupling means (G02B 6/36, G02B 6/42 take precedence) [4] G02B 6/27 3-Punkt Untergruppe with polarisation selective and adjusting means (polarisation elements in general G02B 5/30; polarisation systems in general G02B 27/28; optical polarisation multiplex systems H04J 14/06) [6] G02B 6/28 3-Punkt Untergruppe having data bus means, i.e. plural waveguides interconnected and providing an inherently bidirectional system by mixing and splitting signals [4] G02B 6/287 4-Punkt Untergruppe Structuring of light guides to shape optical elements with heat application (G02B 6/255 takes precedence) [6] G02B 6/293 4-Punkt Untergruppe with wavelength selective means (for optical elements in use, see the relevant subgroups of this subclass; optical wavelength-division multiplexing systems H04J 14/02) [6] G02B 6/30 3-Punkt Untergruppe for use between fibre and thin-film device [4] G02B 6/32 3-Punkt Untergruppe having lens focusing means [4]	G02B 6/245	2-Punkt Untergruppe	Removing protective coverings of light guides before coupling [5]
G02B 6/26 2-Punkt Untergruppe Optical coupling means (G02B 6/36, G02B 6/42 take precedence) [4] G02B 6/27 3-Punkt Untergruppe with polarisation selective and adjusting means (polarisation elements in general G02B 5/30; polarisation systems in general G02B 27/28; optical polarisation multiplex systems H04J 14/06) [6] G02B 6/28 3-Punkt Untergruppe having data bus means, i.e. plural waveguides interconnected and providing an inherently bidirectional system by mixing and splitting signals [4] G02B 6/287 4-Punkt Untergruppe Structuring of light guides to shape optical elements with heat application (G02B 6/255 takes precedence) [6] G02B 6/293 4-Punkt Untergruppe with wavelength selective means (for optical elements in use, see the relevant subgroups of this subclass; optical wavelength-division multiplexing systems H04J 14/02) [6] G02B 6/30 3-Punkt Untergruppe for use between fibre and thin-film device [4] G02B 6/32 3-Punkt Untergruppe having lens focusing means [4]	G02B 6/25	2-Punkt Untergruppe	Preparing the ends of light guides for coupling, e.g. cutting [5]
G02B 6/27 3-Punkt Untergruppe with polarisation selective and adjusting means (polarisation elements in general G02B 5/30; polarisation systems in general G02B 27/28; optical polarisation multiplex systems H04J 14/06) [6] G02B 6/28 3-Punkt Untergruppe having data bus means, i.e. plural waveguides interconnected and providing an inherently bidirectional system by mixing and splitting signals [4] G02B 6/287 4-Punkt Untergruppe Structuring of light guides to shape optical elements with heat application (G02B 6/255 takes precedence) [6] G02B 6/293 4-Punkt Untergruppe with wavelength selective means (for optical elements in use, see the relevant subgroups of this subclass; optical wavelength-division multiplexing systems H04J 14/02) [6] G02B 6/30 3-Punkt Untergruppe for use between fibre and thin-film device [4] G02B 6/32 3-Punkt Untergruppe having lens focusing means [4]	G02B 6/255	2-Punkt Untergruppe	Splicing of light guides, e.g. by fusion or bonding [5]
systems in general G02B 27/28; optical polarisation multiplex systems H04J 14/06) [6] G02B 6/28 3-Punkt Untergruppe having data bus means, i.e. plural waveguides interconnected and providing an inherently bidirectional system by mixing and splitting signals [4] G02B 6/287 4-Punkt Untergruppe Structuring of light guides to shape optical elements with heat application (G02B 6/255 takes precedence) [6] G02B 6/293 4-Punkt Untergruppe with wavelength selective means (for optical elements in use, see the relevant subgroups of this subclass; optical wavelength-division multiplexing systems H04J 14/02) [6] G02B 6/30 3-Punkt Untergruppe for use between fibre and thin-film device [4] G02B 6/32 3-Punkt Untergruppe having lens focusing means [4]	G02B 6/26	2-Punkt Untergruppe	Optical coupling means (G02B 6/36, G02B 6/42 take precedence) [4]
system by mixing and splitting signals [4] 4-Punkt Untergruppe Structuring of light guides to shape optical elements with heat application (G02B 6/255 takes precedence) [6] 4-Punkt Untergruppe with wavelength selective means (for optical elements in use, see the relevant subgroups of this subclass; optical wavelength-division multiplexing systems H04J 14/02) [6] G02B 6/30 3-Punkt Untergruppe for use between fibre and thin-film device [4] G02B 6/32 3-Punkt Untergruppe having lens focusing means [4]	G02B 6/27	3-Punkt Untergruppe	
G02B 6/293 4-Punkt Untergruppe with wavelength selective means (for optical elements in use, see the relevant subgroups of this subclass; optical wavelength-division multiplexing systems H04J 14/02) [6] G02B 6/30 3-Punkt Untergruppe having lens focusing means [4]	G02B 6/28	3-Punkt Untergruppe	
Subclass; optical wavelength-division multiplexing systems H04J 14/02) [6] G02B 6/30 3-Punkt Untergruppe for use between fibre and thin-film device [4] G02B 6/32 3-Punkt Untergruppe having lens focusing means [4]	G02B 6/287	4-Punkt Untergruppe	
G02B 6/32 3-Punkt Untergruppe having lens focusing means [4]	G02B 6/293	4-Punkt Untergruppe	
	G02B 6/30	3-Punkt Untergruppe	for use between fibre and thin-film device [4]
G02B 6/34 3-Punkt Untergruppe utilising prism or grating [4]	G02B 6/32	3-Punkt Untergruppe	having lens focusing means [4]
	G02B 6/34	3-Punkt Untergruppe	utilising prism or grating [4]

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Symbol	Тур	Titel
G02B 6/35	3-Punkt Untergruppe	having switching means (optical switching in general G02B 26/08; by changing the optical properties of the medium G02F 1/00) [6]
G02B 6/36	2-Punkt Untergruppe	Mechanical coupling means (G02B 6/255, G02B 6/42 take precedence) [4, 5]
G02B 6/38	3-Punkt Untergruppe	having fibre to fibre mating means [4]
G02B 6/40	3-Punkt Untergruppe	having fibre bundle mating means [4]
G02B 6/42	2-Punkt Untergruppe	Coupling light guides with opto-electronic elements [4]
G02B 6/43	3-Punkt Untergruppe	Arrangements comprising a plurality of opto-electronic elements and associated optical interconnections (light-emissive or light-sensitive semiconductor devices H01L 27/00, H01L 31/00, H01L 33/00; semiconductor lasers monolithically integrated with other components H01S 5/026) [6]
G02B 6/44	1-Punkt Untergruppe	. Mechanical structures for providing tensile strength and external protection for fibres, e.g. optical transmission cables (cables incorporating electric conductors and optical fibres H01B 11/22) [4]
G02B 6/46	1-Punkt Untergruppe	. Processes or apparatus adapted for installing optical fibres or optical cables (installation of cables containing electric conductors and optical fibres H02G) [6]
G02B 6/48	2-Punkt Untergruppe	Overhead installation [6]
G02B 6/50	2-Punkt Untergruppe	Underground or underwater installation; Installation through tubing, conduits or ducts [6]
G02B 6/52	3-Punkt Untergruppe	using fluid, e.g. air [6]
G02B 6/54	3-Punkt Untergruppe	using mechanical means, e.g. pulling or pushing devices [6]
G02B 7/00	Hauptgruppe	Mountings, adjusting means, or light-tight connections, for optical elements
G02B 7/02	1-Punkt Untergruppe	. for lenses
G02B 7/04	2-Punkt Untergruppe	with mechanism for focusing or varying magnification [2]
G02B 7/06	3-Punkt Untergruppe	Focusing binocular pairs
G02B 7/08	3-Punkt Untergruppe	adapted to co-operate with a remote control mechanism
G02B 7/09	3-Punkt Untergruppe	adapted for automatic focusing or varying magnification (automatic generation of focusing signals G02B 7/28) [5]
G02B 7/10	3-Punkt Untergruppe	by relative axial movement of several lenses, e.g. of varifocal objective lens
G02B 7/105	4-Punkt Untergruppe	with movable lens means specially adapted for focusing at close distances [4]
G02B 7/12	2-Punkt Untergruppe	Adjusting pupillary distance of binocular pairs
G02B 7/14	2-Punkt Untergruppe	adapted to interchange lenses
G02B 7/16	3-Punkt Untergruppe	Rotatable turrets
G02B 7/18	1-Punkt Untergruppe	. for prisms; for mirrors
G02B 7/182	2-Punkt Untergruppe	for mirrors (optical devices or arrangements using movable or deformable optical elements for controlling the intensity, colour, phase, polarisation or direction of light G02B 26/00) [5]
G02B 7/183	3-Punkt Untergruppe	specially adapted for very large mirrors, e.g. for astronomy (G02B 7/185, G02B 7/192, G02B 7/198 take precedence) [6]
G02B 7/185	3-Punkt Untergruppe	with means for adjusting the shape of the mirror surface (mirrors with curved faces G02B 5/10) [5]
G02B 7/188	4-Punkt Untergruppe	Membrane mirrors [5]

Symbol	Тур	Titel
G02B 7/192	3-Punkt Untergruppe	with means for minimising internal mirror stresses [5]
G02B 7/195	4-Punkt Untergruppe	Fluid-cooled mirrors [5]
G02B 7/198	3-Punkt Untergruppe	with means for adjusting the mirror relative to its support [5]
G02B 7/20	1-Punkt Untergruppe	. Light-tight connections for movable optical elements
G02B 7/22	2-Punkt Untergruppe	Extensible connections, e.g. bellows
G02B 7/24	2-Punkt Untergruppe	Pivoted connections
G02B 7/28	1-Punkt Untergruppe	. Systems for automatic generation of focusing signals (measuring distance per seG01C, G01S; using such
		signals to control focus of particular apparatus, <u>see</u> the subclasses for the apparatus, e.g. G03B, G03F) [5]
G02B 7/30	2-Punkt Untergruppe	using parallactic triangle with a base line [5]
G02B 7/32	3-Punkt Untergruppe	using active means, e.g. light emitter [5]
G02B 7/34	2-Punkt Untergruppe	using different areas in a pupil plane [5]
G02B 7/36	2-Punkt Untergruppe	using image sharpness techniques [5]
G02B 7/38	3-Punkt Untergruppe	measured at different points on the optical axis [5]
G02B 7/40	2-Punkt Untergruppe	using time delay of the reflected waves, e.g. of ultrasonic waves [5]
G02B 9/00	Hauptgruppe	Optical objectives characterised both by the number of the components and their arrangements according to their sign, i.e. $+$ or $-$ (G02B 13/00, G02B 15/00 take precedence)
G02B 9/02	1-Punkt Untergruppe	. having one + component only (simple lenses G02B 3/00)
G02B 9/04	1-Punkt Untergruppe	. having two components only
G02B 9/06	2-Punkt Untergruppe	two + components
G02B 9/08	3-Punkt Untergruppe	arranged about a stop
G02B 9/10	2-Punkt Untergruppe	one + and one - component
G02B 9/12	1-Punkt Untergruppe	. having three components only
G02B 9/14	2-Punkt Untergruppe	arranged + - +
G02B 9/16	3-Punkt Untergruppe	all the components being simple
G02B 9/18	3-Punkt Untergruppe	only one component having a compound lens (G02B 9/30 takes precedence)
G02B 9/20	4-Punkt Untergruppe	the rear component having the compound
G02B 9/22	4-Punkt Untergruppe	the middle component having the compound
G02B 9/24	3-Punkt Untergruppe	two of the components having compound lenses (G02B 9/30 takes precedence)
G02B 9/26	4-Punkt Untergruppe	the front and rear components having compound lenses
G02B 9/28	4-Punkt Untergruppe	the middle and rear components having compound lenses
G02B 9/30	3-Punkt Untergruppe	the middle component being a - compound meniscus having a + lens
G02B 9/32	4-Punkt Untergruppe	the + lens being a meniscus
G02B 9/34	1-Punkt Untergruppe	. having four components only

Symbol	Тур	Titel
G02B 9/36	2-Punkt Untergruppe	arranged + +
G02B 9/38	3-Punkt Untergruppe	both - components being meniscus
G02B 9/40	4-Punkt Untergruppe	one - component being compound
G02B 9/42	4-Punkt Untergruppe	two - components being compound
G02B 9/44	3-Punkt Untergruppe	both - components being biconcave
G02B 9/46	4-Punkt Untergruppe	one - component being compound
G02B 9/48	4-Punkt Untergruppe	two - components being compound
G02B 9/50	3-Punkt Untergruppe	both + components being meniscus
G02B 9/52	3-Punkt Untergruppe	the rear + component being compound
G02B 9/54	3-Punkt Untergruppe	the front + component being compound
G02B 9/56	3-Punkt Untergruppe	all components being simple lenses
G02B 9/58	2-Punkt Untergruppe	arranged - + + -
G02B 9/60	1-Punkt Untergruppe	. having five components only
G02B 9/62	1-Punkt Untergruppe	. having six components only
G02B 9/64	1-Punkt Untergruppe	. having more than six components
G02B 11/00	Hauptgruppe	Optical objectives characterised by the total number of simple and compound lenses forming the objective and their arrangement (G02B 9/00 takes precedence; having only one simple lens G02B
		3/00)
G02B 11/02	1-Punkt Untergruppe	
G02B 11/02 G02B 11/04	1-Punkt Untergruppe 2-Punkt Untergruppe	3/00)
		3/00) . having two lenses only
G02B 11/04	2-Punkt Untergruppe	3/00) . having two lenses only arranged C C
G02B 11/04 G02B 11/06	2-Punkt Untergruppe 1-Punkt Untergruppe	3/00) . having two lenses only . arranged C C . having three lenses only
G02B 11/04 G02B 11/06 G02B 11/08	2-Punkt Untergruppe 1-Punkt Untergruppe 2-Punkt Untergruppe	3/00) . having two lenses only . arranged C C . having three lenses only . arranged L L L
G02B 11/04 G02B 11/06 G02B 11/08 G02B 11/10	2-Punkt Untergruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe	3/00) . having two lenses only . arranged C C . having three lenses only . arranged L L L . arranged L C L
G02B 11/04 G02B 11/06 G02B 11/08 G02B 11/10 G02B 11/12	2-Punkt Untergruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe	3/00) . having two lenses only . arranged C C . having three lenses only . arranged L L L . arranged L C L . arranged L C C
G02B 11/04 G02B 11/06 G02B 11/08 G02B 11/10 G02B 11/12 G02B 11/14	2-Punkt Untergruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe	3/00) . having two lenses only . arranged C C . having three lenses only . arranged L L L . arranged L C L . arranged C C
G02B 11/04 G02B 11/06 G02B 11/08 G02B 11/10 G02B 11/12 G02B 11/14 G02B 11/16	2-Punkt Untergruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe	3/00) . having two lenses only . arranged C C . having three lenses only . arranged L L L . arranged L C C . arranged C C . arranged C C C
G02B 11/04 G02B 11/06 G02B 11/08 G02B 11/10 G02B 11/12 G02B 11/14 G02B 11/16 G02B 11/18	2-Punkt Untergruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe	3/00) . having two lenses only . arranged C C . having three lenses only . arranged L L L . arranged L C C . arranged C C C . arranged C C C . arranged C C C
G02B 11/04 G02B 11/06 G02B 11/08 G02B 11/10 G02B 11/12 G02B 11/14 G02B 11/16 G02B 11/18 G02B 11/20	2-Punkt Untergruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 1-Punkt Untergruppe	3/00) . having two lenses only arranged C C . having three lenses only arranged L L L arranged L C C arranged C C C arranged C C C arranged C C C having four lenses only
G02B 11/04 G02B 11/06 G02B 11/08 G02B 11/10 G02B 11/12 G02B 11/14 G02B 11/16 G02B 11/18 G02B 11/20 G02B 11/20	2-Punkt Untergruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 1-Punkt Untergruppe	3/00) . having two lenses only arranged C C . having three lenses only arranged L L L arranged L C L arranged C C C arranged C C C having four lenses only arranged L L L
G02B 11/04 G02B 11/06 G02B 11/08 G02B 11/10 G02B 11/12 G02B 11/14 G02B 11/16 G02B 11/18 G02B 11/20 G02B 11/22 G02B 11/24	2-Punkt Untergruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe	3/00) . having two lenses only arranged C C . having three lenses only arranged L L L arranged L C C arranged C C C arranged C C C arranged C C C having four lenses only arranged L L L arranged C L L arranged C C C having four lenses only arranged C L L C
G02B 11/04 G02B 11/06 G02B 11/08 G02B 11/10 G02B 11/12 G02B 11/14 G02B 11/16 G02B 11/18 G02B 11/20 G02B 11/22 G02B 11/24 G02B 11/26	2-Punkt Untergruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 1-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe 2-Punkt Untergruppe	3/00) . having two lenses only arranged C C . having three lenses only arranged L L L arranged L C C arranged C C C taving four lenses only arranged C L L C

Symbol	Тур	Titel
G02B 11/32	1-Punkt Untergruppe	. having six lenses only
G02B 11/34	1-Punkt Untergruppe	. having more than six lenses
G02B 13/00	Hauptgruppe	Optical objectives specially designed for the purposes specified below (with variable magnification G02B 15/00)
G02B 13/02	1-Punkt Untergruppe	. Telephoto objectives, i.e. systems of the type $+$ - in which the distance from the front vertex to the image plane is less than the equivalent focal length
G02B 13/04	1-Punkt Untergruppe	. Reversed telephoto objectives
G02B 13/06	1-Punkt Untergruppe	. Panoramic objectives; So-called "sky lenses"
G02B 13/08	1-Punkt Untergruppe	. Anamorphotic objectives
G02B 13/10	2-Punkt Untergruppe	involving prisms (G02B 13/12 takes precedence)
G02B 13/12	2-Punkt Untergruppe	with variable magnification
G02B 13/14	1-Punkt Untergruppe	. for use with infra-red or ultra-violet radiation (G02B 13/16 takes precedence)
G02B 13/16	1-Punkt Untergruppe	. for use in conjunction with image converters or intensifiers
G02B 13/18	1-Punkt Untergruppe	. with lenses having one or more non-spherical faces, e.g. for reducing geometrical aberration
G02B 13/20	1-Punkt Untergruppe	. Soft-focus objectives (diffusing elements in general G02B 5/02)
G02B 13/22	1-Punkt Untergruppe	. Telecentric objectives or lens systems
G02B 13/24	1-Punkt Untergruppe	. for reproducing or copying at short object distances
G02B 13/26	2-Punkt Untergruppe	for reproducing with unit magnification [3]
G02B 15/00	Hauptgruppe	Optical objectives with means for varying the magnification (anamorphotic objectives G02B $13/08$)
G02B 15/02	1-Punkt Untergruppe	. by changing, adding, or subtracting a part of the objective, e.g. convertible objective
G02B 15/04	2-Punkt Untergruppe	by changing a part
G02B 15/06	3-Punkt Untergruppe	by changing the front part
G02B 15/08	3-Punkt Untergruppe	by changing the rear part
G02B 15/10	2-Punkt Untergruppe	by adding a part, e.g. close-up attachment
G02B 15/12	3-Punkt Untergruppe	by adding telescopic attachments (G02B 15/14 takes precedence)
G02B 15/14	1-Punkt Untergruppe	. by axial movement of one or more lenses or groups of lenses relative to the image plane for continuously varying the equivalent focal length of the objective [4]
G02B 15/15	2-Punkt Untergruppe	compensation by means of only one movement or by means of only linearly related movements, e.g. optical compensation [4]
G02B 15/16	2-Punkt Untergruppe	with interdependent non-linearly related movements between one lens or lens group, and another lens or lens group (G02B 15/22 takes precedence) [4]
G02B 15/163	3-Punkt Untergruppe	having a first movable lens or lens group and a second movable lens or lens group, both in front of a fixed lens or lens group (G02B 15/177 takes precedence) [4]
G02B 15/167	4-Punkt Untergruppe	having an additional fixed front lens or group of lenses [4]
G02B 15/17	5-Punkt Untergruppe	arranged + [4]

Symbol	Тур	Titel
G02B 15/173	5-Punkt Untergruppe	arranged + - + [4]
G02B 15/177	3-Punkt Untergruppe	having a negative front lens or group of lenses [4]
G02B 15/20	3-Punkt Untergruppe	having an additional movable lens or lens group for varying the objective focal length [4]
G02B 15/22	2-Punkt Untergruppe	with movable lens means specially adapted for focusing at close distances [4]
G02B 15/24	3-Punkt Untergruppe	having a front fixed lens or lens group and two movable lenses or lens groups in front of a fixed lens or lens group [4]
G02B 15/26	4-Punkt Untergruppe	arranged + [4]
G02B 15/28	4-Punkt Untergruppe	arranged + - + [4]
G02B 17/00	Hauptgruppe	Systems with reflecting surfaces, with or without refracting elements (microscopes G02B 21/00; telescopes, periscopes G02B 23/00; beam shaping not otherwise provided for G02B 27/09; for beam splitting or combining G02B 27/10; for optical projection G02B 27/18) [6]
G02B 17/02	1-Punkt Untergruppe	. Catoptric systems, e.g. image erecting and reversing system
G02B 17/04	2-Punkt Untergruppe	using prisms only
G02B 17/06	2-Punkt Untergruppe	using mirrors only
G02B 17/08	1-Punkt Untergruppe	. Catadioptric systems
G02B 19/00	Hauptgruppe	Condensers (for microscopes G02B 21/08)
G02B 21/00	Hauptgruppe	Microscopes (eyepieces G02B 25/00; polarising systems G02B 27/28; measuring microscopes G01B 9/04; microtomes G01N 1/06; investigating or analysing surface structures in atomic ranges using scanning-probe techniques, e.g. techniques employing scanning tunnelling or scanning near-field optical microscopes G01N 13/10; details of scanning-probe apparatus, in general G12B 21/00) [1, 7]
G02B 21/02	1-Punkt Untergruppe	. Objectives
G02B 21/04	2-Punkt Untergruppe	involving mirrors
G02B 21/06	1-Punkt Untergruppe	. Means for illuminating specimen
G02B 21/08	2-Punkt Untergruppe	Condensers
G02B 21/10	3-Punkt Untergruppe	affording dark-field illumination (G02B 21/14 takes precedence)
G02B 21/12	3-Punkt Untergruppe	affording bright-field illumination (G02B 21/14 takes precedence)
G02B 21/14	3-Punkt Untergruppe	affording illumination for phase-contrast observation
G02B 21/16	1-Punkt Untergruppe	. adapted for ultra-violet illumination
G02B 21/18	1-Punkt Untergruppe	. Arrangements with more than one light-path, e.g. for comparing two specimens
G02B 21/20	2-Punkt Untergruppe	Binocular arrangements
G02B 21/22	3-Punkt Untergruppe	Stereoscopic arrangements
G02B 21/24	1-Punkt Untergruppe	. Base structure
G02B 21/26	2-Punkt Untergruppe	Stages; Adjusting means therefor
G02B 21/28	2-Punkt Untergruppe	with cooling device
G02B 21/30	2-Punkt Untergruppe	with heating device
G02B 21/32	1-Punkt Untergruppe	. Micromanipulators structurally combined with microscopes

Symbol	Тур	Titel
G02B 21/33	1-Punkt Untergruppe	. Immersion oils [6]
G02B 21/34	1-Punkt Untergruppe	. Microscope slides, e.g. mounting specimens on microscope slides (preparing specimens for investigation G01N 1/28; means for supporting the objects or the materials to be analysed in electron microscopes H01J 37/20)
G02B 21/36	1-Punkt Untergruppe	. arranged for photographic purposes or projection purposes (G02B 21/18 takes precedence)
G02B 23/00	Hauptgruppe	Telescopes, e.g. binoculars (measuring telescopes G01B 9/06); Periscopes; Instruments for viewing the inside of hollow bodies (diagnostic instruments A61B); Viewfinders (objectives G02B 9/00, G02B 11/00, G02B 15/00, G02B 17/00; eyepieces G02B 25/00); Optical aiming or sighting devices (non-optical aspects of weapon aiming or sighting devices F41G) [4]
G02B 23/02	1-Punkt Untergruppe	. involving prisms or mirrors (G02B 23/14 takes precedence)
G02B 23/04	2-Punkt Untergruppe	for the purpose of beam splitting or combining, e.g. fitted with eyepieces for more than one observer (G02B 23/10 takes precedence)
G02B 23/06	2-Punkt Untergruppe	having a focusing action, e.g. parabolic mirror
G02B 23/08	2-Punkt Untergruppe	Periscopes
G02B 23/10	2-Punkt Untergruppe	reflecting into the field of view additional indications, e.g. from collimator (collimators in general G02B 27/30; graticules G02B 27/34)
G02B 23/12	1-Punkt Untergruppe	. with means for image conversion or intensification (objectives for image conversion or intensification G02B 13/16; electrical image converters with optical input and optical output H01J 31/50)
G02B 23/14	1-Punkt Untergruppe	. Viewfinders (for photographic apparatus G03B 13/02)
G02B 23/16	1-Punkt Untergruppe	. Housings; Caps; Mountings; Supports, e.g. with counterweight (cases or receptacles A45C)
G02B 23/18	2-Punkt Untergruppe	for binocular arrangements
G02B 23/20	2-Punkt Untergruppe	Collapsible housings (G02B 23/18 takes precedence)
G02B 23/22	2-Punkt Untergruppe	Underwater equipments, e.g. for submarine periscope
G02B 23/24	1-Punkt Untergruppe	. Instruments for viewing the inside of hollow bodies, e.g. fibrescopes [4]
G02B 23/26	2-Punkt Untergruppe	using light guides [4]
G02B 25/00	Hauptgruppe	Eyepieces; Magnifying glasses (simple lenses G02B 3/00)
G02B 25/02	1-Punkt Untergruppe	. with means for illuminating object viewed
G02B 25/04	1-Punkt Untergruppe	. affording a wide-angle view, e.g. through a spy-hole
G02B 26/00	Hauptgruppe	Optical devices or arrangements using movable or deformable optical elements for controlling the intensity, colour, phase, polarisation or direction of light, e.g. switching, gating, modulating (mechanically operable parts of lighting devices for the control of light order F21V; specially adapted for measuring characteristics of light G01J; devices or arrangements, the optical operation of which is modified by changing the optical properties of the medium of the devices or arrangements G02F 1/00; control of light in general G05D 25/00; control of light sources H01S 3/10, H05B 37/00-H05B 43/00) [4]
G02B 26/02	1-Punkt Untergruppe	. for controlling the intensity of light [4]
G02B 26/04	2-Punkt Untergruppe	by periodically varying the intensity of light, e.g. using choppers [4]
G02B 26/06	1-Punkt Untergruppe	. for controlling the phase of light (G02B 26/08 takes precedence) [4]
G02B 26/08	1-Punkt Untergruppe	. for controlling the direction of light (in light guides G02B 6/35) [4]

Symbol	Тур	Titel
G02B 26/10	2-Punkt Untergruppe	Scanning systems (for special applications, <u>see</u> the relevant places, e.g. G03B 27/32, G03F 3/08, G03G 15/04, G09G 3/00, H04N) [4]
G02B 26/12	3-Punkt Untergruppe	using multifaceted mirrors [6]
G02B 27/00	Hauptgruppe	Other optical systems; Other optical apparatus (means for bringing-about special optical effects in shop-windows, showcases A47F, e.g. A47F 11/06; optical toys A63H 33/22; designs or pictures characterised by special light effects B44F 1/00)
G02B 27/01	1-Punkt Untergruppe	. Head-up displays [6]
G02B 27/02	1-Punkt Untergruppe	. Viewing or reading apparatus (stereoscopic systems G02B 27/22; of the projection type G03B; slide-changing apparatus G03B)
G02B 27/04	2-Punkt Untergruppe	having collapsible parts
G02B 27/06	2-Punkt Untergruppe	with moving-picture effect
G02B 27/08	2-Punkt Untergruppe	Kaleidoscopes
G02B 27/09	1-Punkt Untergruppe	. Beam shaping, e.g. changing the cross-sectioned area, not otherwise provided for [6]
G02B 27/10	1-Punkt Untergruppe	. Beam splitting or combining systems (mixing and splitting light signals using optical waveguides G02B 6/28; polarising systems G02B 27/28) [4]
G02B 27/12	2-Punkt Untergruppe	operating by refraction only
G02B 27/14	2-Punkt Untergruppe	operating by reflection only
G02B 27/16	2-Punkt Untergruppe	used as aids for focusing
G02B 27/18	1-Punkt Untergruppe	. for optical projection, e.g. combination of mirror and condenser and objective
G02B 27/20	2-Punkt Untergruppe	for imaging minute objects, e.g. light-pointer
G02B 27/22	1-Punkt Untergruppe	. for producing stereoscopic or other three-dimensional effects (in microscopes G02B 21/22; viewing apparatus G02B 27/02)
G02B 27/24	2-Punkt Untergruppe	involving reflecting prisms and mirrors only
G02B 27/26	2-Punkt Untergruppe	involving polarising means
G02B 27/28	1-Punkt Untergruppe	. for polarising (used in stereoscopes G02B 27/26)
G02B 27/30	1-Punkt Untergruppe	. Collimators
G02B 27/32	1-Punkt Untergruppe	. Fiducial marks or measuring scales within the optical system
G02B 27/34	2-Punkt Untergruppe	illuminated
G02B 27/36	2-Punkt Untergruppe	adjustable
G02B 27/40	1-Punkt Untergruppe	. Optical focusing aids (beam splitting or combining systems G02B 27/10)
G02B 27/42	1-Punkt Untergruppe	. Diffraction optics (G02B 27/60 takes precedence) [3]
G02B 27/44	2-Punkt Untergruppe	Grating systems; Zone plate systems (G02B 27/46 takes precedence; spectrometry G01J) [3]
G02B 27/46	2-Punkt Untergruppe	Systems using spatial filters (character recognition G06K 9/00) [3]
G02B 27/48	1-Punkt Untergruppe	. Laser speckle optics (speckle suppression in holography G03H 1/32) [3]
G02B 27/50	1-Punkt Untergruppe	. Optics for phase object visualisation (in microscopes G02B 21/14) [3]

G02B 27/26

Symbol	Тур	Titel
G02B 27/52	2-Punkt Untergruppe	Phase contrast optics [3]
G02B 27/54	2-Punkt Untergruppe	Schlieren-optical systems [3]
G02B 27/56	1-Punkt Untergruppe	. Optics using evanescent waves, i.e. inhomogeneous waves [3]
G02B 27/58	1-Punkt Untergruppe	. Optics for apodization or superresolution; Optical synthetic aperture systems [3]
G02B 27/60	1-Punkt Untergruppe	. Systems using moire fringes (means for converting the output of a sensing member using diffraction gratings G01D 5/38) [3]
G02B 27/62	1-Punkt Untergruppe	. Optical apparatus specially adapted for adjusting optical elements during the assembly of optical systems (adjusting means being part of the system to be assembled G02B 7/00) [3]
G02B 27/64	1-Punkt Untergruppe	. Imaging systems using optical elements for stabilisation of the lateral and angular position of the image (focusing systems G02B 7/04; adjustment of optical system relative to image or object surface G03B 5/00) [3]