Н	Sektion	SECTION H — ELECTRICITY
H04	Klasse	ELECTRIC COMMUNICATION TECHNIQUE
H04B	Unterklasse	TRANSMISSION (transmission systems for measured values, control or similar signals G08C; speech analysis or synthesis G10L; coding, decoding or code conversion, in general H03M; broadcast communication H04H; multiplex systems H04J; secret communication H04K; transmission of digital information H04L) [4]
H04B 1/00	Hauptgruppe	Details of transmission systems, not covered by a single one of groups H04B 3/00-H04B 13/00; Details of transmission systems not characterised by the medium used for transmission (tuning resonant circuits H03J) [4]
H04B 1/02	1-Punkt Untergruppe	. Transmitters (spatial arrangements of component circuits in radio pills for living beings A61B 5/07)
H04B 1/03	2-Punkt Untergruppe	Constructional details, e.g. casings, housings [2]
H04B 1/034	3-Punkt Untergruppe	Portable transmitters [2]
H04B 1/036	3-Punkt Untergruppe	Cooling arrangements (cooling transformers H01F 27/08; cooling discharge tubes H01J 7/24, H01J 19/74) [2]
H04B 1/04	2-Punkt Untergruppe	Circuits (of television transmitters H04N 5/38)
H04B 1/06	1-Punkt Untergruppe	. Receivers (control of amplification H03G; television receivers H04N 5/44, H04N 5/64)
H04B 1/08	2-Punkt Untergruppe	Constructional details, e.g. cabinet
H04B 1/10	2-Punkt Untergruppe	Means associated with receiver for limiting or suppressing noise or interference
H04B 1/12	3-Punkt Untergruppe	Neutralising, balancing, or compensation arrangements
H04B 1/14	3-Punkt Untergruppe	Automatic detuning arrangements
H04B 1/16	2-Punkt Untergruppe	Circuits
H04B 1/18	3-Punkt Untergruppe	Input circuits, e.g. for coupling to an aerial or a transmission line (input circuits for amplifiers in general H03F; coupling networks between aerials or lines and receivers independent of the nature of the receiver H03H)
H04B 1/20	3-Punkt Untergruppe	for coupling gramophone pick-up, recorder output, or microphone to receiver
H04B 1/22	3-Punkt Untergruppe	for receivers in which no local oscillation is generated
H04B 1/24	4-Punkt Untergruppe	the receiver comprising at least one semiconductor device having three or more electrodes
H04B 1/26	3-Punkt Untergruppe	for superheterodyne receivers (multiple frequency-changing H03D 7/16)
H04B 1/28	4-Punkt Untergruppe	the receiver comprising at least one semiconductor device having three or more electrodes
H04B 1/30	3-Punkt Untergruppe	for homodyne or synchrodyne receivers (demodulator circuits H03D 1/22)
H04B 1/38	1-Punkt Untergruppe	. Transceivers, i.e. devices in which transmitter and receiver form a structural unit and in which at least one part is used for functions of transmitting and receiving
H04B 1/40	2-Punkt Untergruppe	Circuits
H04B 1/44	3-Punkt Untergruppe	Transmit/receive switching (in radar systems G01S; tubes therefor H01J 17/64; waveguide switches H01P 1/10) [2]
H04B 1/46	4-Punkt Untergruppe	by voice-frequency signals; by pilot signals

Symbol	Тур	Titel
H04B 1/48	4-Punkt Untergruppe	in circuit for connecting transmitter and receiver to a common transmission path, e.g. by energy of transmitter
H04B 1/50	3-Punkt Untergruppe	using different frequencies for the two directions of communication
H04B 1/52	4-Punkt Untergruppe	Hybrid arrangements, i.e. for transition from single-path two-way transmission to single transmission on each of two paths, or <u>vice versa</u>
H04B 1/54	3-Punkt Untergruppe	using the same frequency for both directions of communication (H04B 1/44 takes precedence)
H04B 1/56	4-Punkt Untergruppe	with provision for simultaneous communication in both directions
H04B 1/58	4-Punkt Untergruppe	Hybrid arrangements, i.e. for transition from single-path two-way transmission to single transmission on each of two paths, or <u>vice versa</u>
H04B 1/59	1-Punkt Untergruppe	. Responders; Transponders (relay systems H04B 7/14)
H04B 1/60	1-Punkt Untergruppe	. Supervising unattended repeaters
H04B 1/62	1-Punkt Untergruppe	. for providing a predistortion of the signal in the transmitter and corresponding correction in the receiver, e.g. for improving the signal/noise ratio
H04B 1/64	2-Punkt Untergruppe	Volume compression or expansion arrangements
H04B 1/66	1-Punkt Untergruppe	. for reducing bandwidth of signals (in speech analysis-synthesis techniques G10L 19/00; in pictorial communication systems H04N); for improving efficiency of transmission (H04B 1/68 takes precedence)
H04B 1/68	1-Punkt Untergruppe	. for wholly or partially suppressing the carrier or one side band [4]
H04B 1/69	1-Punkt Untergruppe	. Spread spectrum techniques in general (for code multiplex systems H04J 13/02) [6]
H04B 1/707	2-Punkt Untergruppe	using direct sequence modulation [6]
H04B 1/713	2-Punkt Untergruppe	using frequency hopping [6]
H04B 1/72	1-Punkt Untergruppe	. Circuits or components for simulating aerials, e.g. dummy aerial (dissipative waveguide terminations H01P 1/26)
H04B 1/74	1-Punkt Untergruppe	. for increasing reliability, e.g. using redundant or spare channels or apparatus [3]
H04B 1/76	1-Punkt Untergruppe	. Pilot transmitters or receivers for control of transmission or for equalising [3]
H04B 3/00	Hauptgruppe	Line transmission systems (combined with near-field transmission systems H04B 5/00; constructional features of cables H01B 11/00)
H04B 3/02	1-Punkt Untergruppe	. Details
H04B 3/03	2-Punkt Untergruppe	Hybrid circuits (for transceivers H04B 1/52, H04B 1/58; hybrid junctions of the waveguide type H01P 5/16) [3]
H04B 3/04	2-Punkt Untergruppe	Control of transmission; Equalising (control of amplification in general H03G)
H04B 3/06	3-Punkt Untergruppe	by the transmitted signal
H04B 3/08	4-Punkt Untergruppe	in negative-feedback path of line amplifier
H04B 3/10	3-Punkt Untergruppe	by pilot signal
H04B 3/11	4-Punkt Untergruppe	using pilot wire (H04B 3/12 take precedence) [3]
H04B 3/12	4-Punkt Untergruppe	in negative-feedback path of line amplifier
H04B 3/14	3-Punkt Untergruppe	characterised by the equalising network used

Symbol	Тур	Titel
H04B 3/16	3-Punkt Untergruppe	characterised by the negative-impedance network used
H04B 3/18	4-Punkt Untergruppe	wherein the network comprises semiconductor devices
H04B 3/20	2-Punkt Untergruppe	Reducing echo effects or singing; Opening or closing transmitting path; Conditioning for transmission in one direction or the other
H04B 3/21	3-Punkt Untergruppe	using a set of bandfilters [3]
H04B 3/23	3-Punkt Untergruppe	using a replica of transmitted signal in the time domain, e.g. echo cancellers [3]
H04B 3/26	2-Punkt Untergruppe	Improving frequency characteristic by the use of loading coils (loading coils per seH01F 17/08)
H04B 3/28	2-Punkt Untergruppe	Reducing interference caused by currents induced in cable sheathing or armouring
H04B 3/30	2-Punkt Untergruppe	Reducing interference caused by unbalance current in a normally balanced line
H04B 3/32	2-Punkt Untergruppe	Reducing cross-talk, e.g. by compensating
H04B 3/34	3-Punkt Untergruppe	by systematic interconnection of lengths of cable during laying; by addition of balancing components to cable during laying
H04B 3/36	2-Punkt Untergruppe	Repeater circuits (H04B 3/58 takes precedence; amplifiers therefor H03F)
H04B 3/38	3-Punkt Untergruppe	for signals in two different frequency ranges transmitted in opposite directions over the same transmission path
H04B 3/40	2-Punkt Untergruppe	Artificial lines; Networks simulating a line of certain length
H04B 3/42	2-Punkt Untergruppe	Circuits for by-passing of ringing signals
H04B 3/44	2-Punkt Untergruppe	Arrangements for feeding power to a repeater along the transmission line
H04B 3/46	2-Punkt Untergruppe	Monitoring; Testing
H04B 3/48	3-Punkt Untergruppe	Testing attenuation
H04B 3/50	1-Punkt Untergruppe	. Systems for transmission between fixed stations \underline{via} two-conductor transmission lines (H04B 3/54 takes precedence)
H04B 3/52	1-Punkt Untergruppe	. Systems for transmission between fixed stations <u>via</u> waveguides
H04B 3/54	1-Punkt Untergruppe	. Systems for transmission \underline{via} power distribution lines (in alarm signalling systems G08B 25/06; remote indication of power network conditions, remote control of switching means in a power distribution network H02J 13/00)
H04B 3/56	2-Punkt Untergruppe	Circuits for coupling, blocking, or by-passing of signals
H04B 3/58	2-Punkt Untergruppe	Repeater circuits (amplifiers therefor H03F)
H04B 3/60	1-Punkt Untergruppe	. Systems for communication between relatively movable stations, e.g. for communication with lift (H04B 3/54 takes precedence)
H04B 5/00	Hauptgruppe	Near-field transmission systems, e.g. inductive loop type
H04B 5/02	1-Punkt Untergruppe	. using transceiver
H04B 5/04	1-Punkt Untergruppe	. Calling systems, e.g. paging system
H04B 5/06	1-Punkt Untergruppe	. using a portable transmitter associated with a microphone
H04B 7/00	Hauptgruppe	Radio transmission systems, i.e. using radiation field (H04B 10/00, H04B 15/00 take precedence)

Symbol	Тур	Titel
H04B 7/005	1-Punkt Untergruppe	. Control of transmission; Equalising [3]
H04B 7/01	1-Punkt Untergruppe	. Reducing phase shift [3]
H04B 7/015	1-Punkt Untergruppe	. Reducing echo effects [3]
H04B 7/02	1-Punkt Untergruppe	. Diversity systems (for direction finding G01S 3/72; aerial arrays or systems H01Q)
H04B 7/04	2-Punkt Untergruppe	using a plurality of spaced independent aerials
H04B 7/06	3-Punkt Untergruppe	at transmitting station
H04B 7/08	3-Punkt Untergruppe	at receiving station
H04B 7/10	2-Punkt Untergruppe	using a single aerial system characterised by its polarisation or directive properties, e.g. polarisation diversity, direction diversity
H04B 7/12	2-Punkt Untergruppe	Frequency-diversity systems
H04B 7/14	1-Punkt Untergruppe	. Relay systems (interrogator-responder radar systems G01S 13/74) [2]
H04B 7/145	2-Punkt Untergruppe	Passive relay systems [2]
H04B 7/15	2-Punkt Untergruppe	Active relay systems [2]
H04B 7/155	3-Punkt Untergruppe	Ground-based stations (H04B 7/204 takes precedence) [2, 5]
H04B 7/165	4-Punkt Untergruppe	employing angle modulation [2]
H04B 7/17	4-Punkt Untergruppe	employing pulse modulation, e.g. pulse code modulation [2]
H04B 7/185	3-Punkt Untergruppe	Space-based or airborne stations (H04B 7/204 takes precedence) [2, 5]
H04B 7/19	4-Punkt Untergruppe	Earth-synchronous stations [2]
H04B 7/195	4-Punkt Untergruppe	Non-synchronous stations [2]
H04B 7/204	3-Punkt Untergruppe	Multiple access [5]
H04B 7/208	4-Punkt Untergruppe	Frequency-division multiple access [5]
H04B 7/212	4-Punkt Untergruppe	Time-division multiple access [5]
H04B 7/216	4-Punkt Untergruppe	Code-division or spread-spectrum multiple access (spread spectrum techniques in general H04B 1/69) [5]
H04B 7/22	1-Punkt Untergruppe	. Scatter propagation systems
H04B 7/24	1-Punkt Untergruppe	. for communication between two or more posts (for selecting H04Q 7/00) [2]
H04B 7/26	2-Punkt Untergruppe	at least one of which is mobile [2]
H04B 10/00	Hauptgruppe	Transmission systems employing beams of corpuscular radiation, or electromagnetic waves other than radio waves, e.g. light, infra-red (optical coupling, mixing or splitting G02B; light guides G02B 6/00; switching, modulation, demodulation of light beams G02B, G02F; devices or arrangements for the control, e.g. modulation, of light beams G02F 1/00; devices or arrangements for demodulating light, transferring the modulation or changing the frequency of light G02F 2/00; optical multiplex systems H04J 14/00) [5]
H04B 10/02	1-Punkt Untergruppe	. Details [5]
H04B 10/04	2-Punkt Untergruppe	Transmitters [5]
H04B 10/06	2-Punkt Untergruppe	Receivers [5]

Type 1048 1008 2-Punkt Untergruppe Equipment for monitoring, basting or fault measuring [5] 1648 1010 1. Punkt Untergruppe specially adapted for satellite links [6] 1648 10112 2. Punkt Untergruppe specially adapted for satellite links [6] 1648 10112 1. Punkt Untergruppe specially adapted for satellite links [6] 1658 10112 1. Punkt Untergruppe using multimodal transmission [6] 1659 10113 2. Punkt Untergruppe using multimodal transmission [6] 1668 10113 2. Punkt Untergruppe using multimodal transmission [6] 1668 10114 2. Punkt Untergruppe using multimodal transmission [6] 1668 10114 2. Punkt Untergruppe Transmitters [6] 1668 10114 3. Punkt Untergruppe Coherent homodyne or fetterodyne systems [6] 1668 10114 4. Punkt Untergruppe Receivers [6] 1668 10115 3. Punkt Untergruppe Receivers [6] 1668 10115 4. Punkt Untergruppe Receivers [6] 1668 10115 4. Punkt Untergruppe Receivers [6] 1668 10116 2. Punkt Untergruppe Receivers [6] 1668 10116 2. Punkt Untergruppe Receivers [6] 1668 10116 2. Punkt Untergruppe In which processing or amplification is carried out without conversion of the signal from optical from [6] 1668 10120 2. Punkt Untergruppe Arrangements for reducing or climinating distortion or dispersion, e.g. equalisers [5] 1668 10120 2. Punkt Untergruppe In which processing or amplification is carried out without conversion of the signal from optical from [6] 1668 10120 2. Punkt Untergruppe Immansion between two stations which are mobile relative to each other (1048 1019 stakes precedence) [5, 7] 1668 10120 2. Punkt Untergruppe Bidirectional transmission which are mobile relative to each other (1048 1019 stakes precedence) [5, 7] 1668 10120 2. Punkt Untergruppe staing a single light source for both stations involved [6] 1668 10120 3. Punkt Untergruppe staing a single light source for both stations involved [6] 1668 10120 3. Punkt Untergruppe staing a single light source for both stations involved [6] 1668 10120 3. Punkt Un			
1-Punkt Untergruppe Transmission through free space, e.g. through the atmosphere (H048 10/22, H048 10/24, H048 10/30 take precedence) (5, 7)	Symbol	Тур	Titel
Hode 10/105 2-Punkt Untergruppe specially adapted for satellite links [6] specially adapted for reduction of special s	H04B 10/08	2-Punkt Untergruppe	Equipment for monitoring, testing or fault measuring [5]
H08B 10/12 1-Punkt Untergruppe Transmission through light guides, e.g. optical fibres (H08B 10/24, H04B 10/24, H04B 10/24 take precedence 1/5, 7) H04B 10/13 2-Punkt Untergruppe using multimodal transmission (6) H04B 10/14 2-Punkt Untergruppe Transmission (7) H04B 10/14 3-Punkt Untergruppe Transmisters (6) H04B 10/14 4-Punkt Untergruppe Receivers (6) H04B 10/15 2-Punkt Untergruppe In which processing or amplification is carried out without conversion of the signal from optical form (6) H04B 10/17 3-Punkt Untergruppe Arrangements for reducing or eliminating distortion or dispersion, e.g. equalisers (5) H04B 10/20 2-Punkt Untergruppe using a ster-type coupler (6) H04B 10/21 3-Punkt Untergruppe using a ster-type coupler (6) H04B 10/22 1-Punkt Untergruppe using a ster-type coupler (6) H04B 10/22 2-Punkt Untergruppe using a single light source for both stations involved (6) H04B 10/28 2-Punkt Untergruppe using a single light source for both stations involved (6) H04B 10/29 1-Punkt Untergruppe using a single light source for both stations involved (6) H04B 10/20 1-Punkt Untergruppe using a single light source for both stations involved (6) H04B 10/20 1-Punkt Untergruppe using a single light source for both stations involved (6) H04B 10/20 1-Punkt Untergruppe transmission systems employing beams of corpuscular radiation (arrangements for handling beams of corpuscular radiation, e.g. focusing, moderating, G21K 1000 (7) Transmission systems employing ultrasonic, sonic or infrasonic waves Transmission systems employing ultrasonic, sonic or infrasonic waves Transmission systems employing ultrasonic,	H04B 10/10	1-Punkt Untergruppe	
Hotel 10/13 2-Punkt Untergruppe using multimodal transmission [6] Hotel 10/13 2-Punkt Untergruppe using single mode transmission [6] Hotel 10/14 2-Punkt Untergruppe Coherent homodyne or heterodyne systems [6] Hotel 10/14 3-Punkt Untergruppe Coherent homodyne or heterodyne systems [6] Hotel 10/14 4-Punkt Untergruppe Transmitters [6] Hotel 10/14 4-Punkt Untergruppe Receivers [6] Hotel 10/15 3-Punkt Untergruppe Non-coherent direct-detection systems [6] Hotel 10/15 4-Punkt Untergruppe Receivers [6] Hotel 10/15 4-Punkt Untergruppe Receivers [6] Hotel 10/15 4-Punkt Untergruppe Receivers [6] Hotel 10/15 2-Punkt Untergruppe Receivers [6] Hotel 10/16 2-Punkt Untergruppe Receivers [5] Hotel 10/16 2-Punkt Untergruppe Arrangements for reducing or eliminating distortion or dispersion, e.g. equalisers [5] Hotel 10/16 2-Punkt Untergruppe Arrangements for networking, e.g. bus or star coupling [5] Hotel 10/20 3-Punkt Untergruppe using a far-type coupler [6] Hotel 10/21 3-Punkt Untergruppe using a far-type coupler [6] Hotel 10/22 1-Punkt Untergruppe using a T-type coupler [6] Hotel 10/24 1-Punkt Untergruppe using a T-type coupler [6] Hotel 10/24 1-Punkt Untergruppe using a single light source for both stations involved [6] Hotel 10/26 2-Punkt Untergruppe using a single light source for both stations involved [6] Hotel 10/26 1-Punkt Untergruppe Transmission systems employing beams of corpuscular radiation (arrangements for handling beams of corpuscular radiation, e.g. focusing, moderating, G21K 1001 [7] Hotel 13/30 1-Punkt Untergruppe Transmission systems employing beams of compactual radiation, not provided for in groups 10/48 13/00 Hotel 13/00 Hotel 13/00 1-Punkt Untergruppe Transmission systems employing beams of compactual radiation, not provided for in groups 10/48 13/00 Hotel 13/00 1-Punkt Untergruppe Transmission systems to the medium used for transmission (details thereof Hotel 13/00 Hotel 13/00 1-Punkt Untergruppe characte	H04B 10/105	2-Punkt Untergruppe	specially adapted for satellite links [6]
H048 10/135 2-Punkt Untergruppe transmitsration (6) H048 10/144 2-Punkt Untergruppe Transmitsrations (5) H048 10/145 4-Punkt Untergruppe Coherent homodyne or heterodyne systems (6) H048 10/145 4-Punkt Untergruppe Receivers (6) H048 10/145 4-Punkt Untergruppe Non-coherent direct-detection systems (6) H048 10/152 3-Punkt Untergruppe Non-coherent direct-detection systems (6) H048 10/155 4-Punkt Untergruppe Non-coherent direct-detection systems (6) H048 10/155 4-Punkt Untergruppe Receivers (6) H048 10/155 4-Punkt Untergruppe Receivers (6) H048 10/156 2-Punkt Untergruppe In which processing or amplification is carried out without conversion of the signal from optical form (6) H048 10/16 2-Punkt Untergruppe In which processing or amplification is carried out without conversion of the signal from optical form (6) H048 10/17 3-Punkt Untergruppe Arrangements for networking, e.g., bus or star coupling [5] H048 10/20 2-Punkt Untergruppe using a Star-type coupler (6) H048 10/21 3-Punkt Untergruppe using a Star-type coupler (6) H048 10/22 1-Punkt Untergruppe using a T-type coupler (6) H048 10/24 1-Punkt Untergruppe using a Star-type coupler (6) H048 10/24 1-Punkt Untergruppe using a single fight source for both stations involved (6) H048 10/26 2-Punkt Untergruppe using a single device as a light source or a light receiver (6) H048 10/28 2-Punkt Untergruppe using a single device as a light source or a light receiver (6) H048 10/20 1-Punkt Untergruppe transmission systems employing beams of corpuscular radiation (arrangements for handling beams of corpuscular radiation, not provided for in groups H048 1000 H048 13/00 H049 13/00 H048 13/00 H049 Hauptgruppe tharacterised by the medium used for transmission (detaits thereof H048 10/00) (4) H048 14/00 Hauptgruppe character	H04B 10/12	1-Punkt Untergruppe	
H04B 10/14 2-Punkt Untergruppe Terminal stations [5] H04B 10/145 3-Punkt Untergruppe Coherent homodyne or heterodyne systems [6] H04B 10/145 4-Punkt Untergruppe Transmitters [6] H04B 10/148 4-Punkt Untergruppe Receivers [6] H04B 10/152 3-Punkt Untergruppe Non-coherent direct-detection systems [6] H04B 10/155 4-Punkt Untergruppe Transmitters [6] H04B 10/155 4-Punkt Untergruppe Receivers [6] H04B 10/156 4-Punkt Untergruppe Receivers [6] H04B 10/157 3-Punkt Untergruppe Receivers [6] H04B 10/16 2-Punkt Untergruppe Arrangements for reducing or amplification is carried out without conversion of the signal from optical form [6] H04B 10/17 3-Punkt Untergruppe Arrangements for networking, e.g. bus or star coupling [5] H04B 10/20 2-Punkt Untergruppe using a star-type coupler [6] H04B 10/20 3-Punkt Untergruppe using a star-type coupler [6] H04B 10/21 3-Punkt Untergruppe using a T-type coupler [6] H04B 10/22 1-Punkt Untergruppe using a T-type coupler [6] H04B 10/22 1-Punkt Untergruppe using a single light source for both stations involved [6] H04B 10/26 2-Punkt Untergruppe using a single light source for both stations involved [6] H04B 10/28 2-Punkt Untergruppe using a single light source for both stations involved [6] H04B 10/20 1-Punkt Untergruppe using a single light source for both stations involved [6] H04B 10/20 1-Punkt Untergruppe transmission systems employing beams of corpuscular radiation (arrangements for handling beams of corpuscular radiation, e.g. fricusing, moderating, 621kt 10/00 [7] H04B 10/00 Hauptgruppe Transmission systems employing ultrasonic, sonic or infrasonic waves H04B 13/00 Hauptgruppe Transmission systems in which the medium used for transmission, not provided for in groups H04B 3/00 [1] H04B 13/00 Hauptgruppe Transmission systems in which the medium used for transmission feath telegraphy (the transmission systems with earth or water return H04B 3/00) H04B 13/00 Hauptgruppe Transmission systems in which the medium us	H04B 10/13	2-Punkt Untergruppe	using multimodal transmission [6]
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H04B 10/145	H04B 10/14	2-Punkt Untergruppe	Terminal stations [5]
H048 10/148	H04B 10/142	3-Punkt Untergruppe	Coherent homodyne or heterodyne systems [6]
H04B 10/152 3-Punkt Untergruppe Non-coherent direct-detection systems [6] H04B 10/155 4-Punkt Untergruppe Receivers [6] H04B 10/158 4-Punkt Untergruppe Receivers [6] H04B 10/16 2-Punkt Untergruppe In which processing or amplification is carried out without conversion of the signal from optical form [6] H04B 10/18 2-Punkt Untergruppe Arrangements for reducing or eliminating distortion or dispersion, e.g. equalisers [5] H04B 10/18 2-Punkt Untergruppe Arrangements for networking, e.g. bus or star coupling [5] H04B 10/20 2-Punkt Untergruppe using a star-type coupler [6] H04B 10/21 3-Punkt Untergruppe using a T-type coupler [6] H04B 10/22 1-Punkt Untergruppe Transmission between two stations which are mobile relative to each other (H04B 10/30 takes precedence) [5, 7] H04B 10/24 1-Punkt Untergruppe using a single light source for both stations involved [6] H04B 10/26 2-Punkt Untergruppe using a single device as a light source or a light receiver [6] H04B 10/30 1-Punkt Untergruppe using a single device as a light source or a light receiver [6] H04B 10/30 1-Punkt Untergruppe transmission systems employing beams of corpuscular radiation (arrangements for handling beams of corpuscular radiation, e.g. focusing, moderating, G21K 1/00) [7] H04B 11/00 Hauptgruppe Transmission systems characterised by the medium used for transmission, not provided for in groups H04B 13/00 H04B 11/00 H04B 13/00 1-Punkt Untergruppe Transmission systems in which the medium consists of the earth or a large mass of water thereon, e.g. earth telegraphy (line transmission systems with earth or water return H04B 3/00) H04B 14/00 Hauptgruppe Transmission systems not characterised by the medium used for transmission (details thereof H04B 1/00) [4] H04B 14/00 1-Punkt Untergruppe characterised by the use of pulse modulation (in radio transmission relays H04B 7/17) [4]	H04B 10/145	4-Punkt Untergruppe	Transmitters [6]
HO4B 10/155 4-Punkt Untergruppe Transmitters [6] HO4B 10/158 4-Punkt Untergruppe Receivers [6] HO4B 10/16 2-Punkt Untergruppe Repeaters [5] HO4B 10/17 3-Punkt Untergruppe in which processing or amplification is carried out without conversion of the signal from optical form [6] HO4B 10/18 2-Punkt Untergruppe Arrangements for reducing or eliminating distortion or dispersion, e.g. equalisers [5] HO4B 10/20 2-Punkt Untergruppe Arrangements for networking, e.g. bus or star coupling [5] HO4B 10/20 3-Punkt Untergruppe using a star-type coupler [6] HO4B 10/21 3-Punkt Untergruppe using a T-type coupler [6] HO4B 10/22 1-Punkt Untergruppe using a T-type coupler [6] HO4B 10/24 1-Punkt Untergruppe using a single light source for both stations involved [6] HO4B 10/26 2-Punkt Untergruppe using a single light source for both stations involved [6] HO4B 10/28 2-Punkt Untergruppe using a single device as a light source or a light receiver [6] HO4B 10/30 1-Punkt Untergruppe using a single device as a light source or a light receiver [6] HO4B 10/30 1-Punkt Untergruppe using a single device as a light source or a light receiver [6] HO4B 10/30 1-Punkt Untergruppe using a single device as a light source or a light receiver [6] HO4B 10/30 1-Punkt Untergruppe using a single device as a light source or a light receiver [6] HO4B 10/30 1-Punkt Untergruppe using a single device as a light source or a light receiver [6] HO4B 10/30 1-Punkt Untergruppe using a single device as a light source or a light receiver [6] HO4B 10/30 1-Punkt Untergruppe using a single levice as a light source or a light receiver [6] HO4B 10/30 1-Punkt Untergruppe using a single levice as a light source or a light receiver [6] HO4B 10/30 1-Punkt Untergruppe using a single levice as a light source or a light receiver [6] HO4B 10/30 1-Punkt Untergruppe using a single levice as a light source or a light receiver [6] HO4B 10/30 1-Punkt Untergruppe using a single levice as a light	H04B 10/148	4-Punkt Untergruppe	Receivers [6]
H04B 10/15 4-Punkt Untergruppe Receivers [6] H04B 10/16 2-Punkt Untergruppe Repeaters [5] H04B 10/17 3-Punkt Untergruppe in which processing or amplification is carried out without conversion of the signal from optical form [6] H04B 10/18 2-Punkt Untergruppe Arrangements for reducing or eliminating distortion or dispersion, e.g. equalisers [5] H04B 10/20 2-Punkt Untergruppe Arrangements for networking, e.g. bus or star coupling [5] H04B 10/207 3-Punkt Untergruppe using a star-type coupler [6] H04B 10/21 3-Punkt Untergruppe using a T-type coupler [6] H04B 10/22 1-Punkt Untergruppe Bidirectional transmission (H04B 10/22, H04B 10/30 take precedence) [5, 7] H04B 10/24 1-Punkt Untergruppe using a single light source for both stations involved [6] H04B 10/28 2-Punkt Untergruppe using a single leght source for both stations involved [6] H04B 10/28 2-Punkt Untergruppe using a single device as a light source or a light receiver [6] H04B 10/30 1-Punkt Untergruppe transmission systems employing beams of corpuscular radiation (arrangements for handling beams of corpuscular radiation (arrangements for handling beams of corpuscular radiation (arrangements for handling beams of corpuscular radiation, e.g. focusing, moderating, G21K 1/00/17) H04B 13/00 1-Punkt Untergruppe Transmission systems employing ultrasonic, sonic or infrasonic waves Transmission systems characterised by the medium used for transmission, not provided for in groups H04B 3/00-H04B 11/00 H04B 13/00 1-Punkt Untergruppe Transmission systems in which the medium consists of the earth or a large mass of water thereon, e.g. earth telegraphy (line transmission systems ont characterised by the medium used for transmission (details thereof H04B 1/00) [4] H04B 14/00 1-Punkt Untergruppe characterised by the use of pulse modulation (in radio transmission relays H04B 7/17) [4]	H04B 10/152	3-Punkt Untergruppe	Non-coherent direct-detection systems [6]
H04B 10/16 2-Punkt Untergruppe Repeaters [5] H04B 10/17 3-Punkt Untergruppe in which processing or amplification is carried out without conversion of the signal from optical form [6] H04B 10/18 2-Punkt Untergruppe Arrangements for reducing or eliminating distortion or dispersion, e.g. equalisers [5] H04B 10/20 2-Punkt Untergruppe Arrangements for networking, e.g. bus or star coupling [5] H04B 10/20 3-Punkt Untergruppe using a star-type coupler [6] H04B 10/21 3-Punkt Untergruppe using a T-type coupler [6] H04B 10/22 1-Punkt Untergruppe using a T-type coupler [6] H04B 10/24 1-Punkt Untergruppe using a Single light source for both stations which are mobile relative to each other (H04B 10/30 takes precedence) [5, 7] H04B 10/26 2-Punkt Untergruppe using a single light source for both stations involved [6] H04B 10/28 2-Punkt Untergruppe using a single device as a light source or a light receiver [6] H04B 10/30 1-Punkt Untergruppe Transmission systems employing beams of corpuscular radiation (arrangements for handling beams of corpuscular radiation, e.g. focusing, moderating, G21K 1/00) [7] H04B 11/00 Hauptgruppe Transmission systems employing ultrasonic, sonic or infrasonic waves H04B 13/00 1-Punkt Untergruppe Transmission systems in which the medium consists of the earth or a large mass of water thereon, e.g. earth telegraphy (line transmission systems with earth or water return H04B 3/00) H04B 14/00 1-Punkt Untergruppe Transmission systems not characterised by the medium used for transmission (details thereof H04B 14/00) [4] H04B 14/00 1-Punkt Untergruppe Transmission systems not characterised by the medium used for transmission (details thereof H04B 14/00) [4]	H04B 10/155	4-Punkt Untergruppe	Transmitters [6]
H04B 10/17 3-Punkt Untergruppe in which processing or amplification is carried out without conversion of the signal from optical form [6] H04B 10/18 2-Punkt Untergruppe Arrangements for reducing or eliminating distortion or dispersion, e.g. equalisers [5] H04B 10/20 2-Punkt Untergruppe Arrangements for networking, e.g. bus or star coupling [5] H04B 10/20 3-Punkt Untergruppe using a star-type coupler [6] H04B 10/21 3-Punkt Untergruppe using a T-type coupler [6] H04B 10/22 1-Punkt Untergruppe Transmission between two stations which are mobile relative to each other (H04B 10/30 takes precedence) [5, 7] H04B 10/24 1-Punkt Untergruppe using a single light source for both stations involved [6] H04B 10/26 2-Punkt Untergruppe using a single device as a light source or a light receiver [6] H04B 10/30 1-Punkt Untergruppe using a single device as a light source or a light receiver [6] H04B 10/30 1-Punkt Untergruppe Transmission systems employing beams of corpuscular radiation (arrangements for handling beams of corpuscular radiation, e.g. focusing, moderating, G21K 1/00) [7] H04B 13/00 Hauptgruppe Transmission systems characterised by the medium used for transmission, not provided for in groups H04B 3/00-H04B 11/00 H04B 13/02 1-Punkt Untergruppe Transmission systems in which the medium consists of the earth or a large mass of water thereon, e.g. earth telegraphy (line transmission systems with earth or water return H04B 3/00) H04B 14/00 1-Punkt Untergruppe characterised by the use of pulse modulation (in radio transmission relays H04B 7/17) [4]	H04B 10/158	4-Punkt Untergruppe	Receivers [6]
H04B 10/20 2-Punkt Untergruppe Arrangements for reducing or eliminating distortion or dispersion, e.g. equalisers [5] H04B 10/20 2-Punkt Untergruppe using a star-type coupler [6] H04B 10/21 3-Punkt Untergruppe using a T-type coupler [6] H04B 10/22 1-Punkt Untergruppe using a T-type coupler [6] H04B 10/22 1-Punkt Untergruppe using a T-type coupler [6] H04B 10/24 1-Punkt Untergruppe using a Single light source for both stations involved [6] H04B 10/26 2-Punkt Untergruppe using a single light source for both stations involved [6] H04B 10/30 1-Punkt Untergruppe using a single device as a light source or a light receiver [6] H04B 10/30 1-Punkt Untergruppe using a single device as a light source or a light receiver [6] H04B 10/30 1-Punkt Untergruppe using a single device as a light source or a light receiver [6] H04B 11/30 Hauptgruppe Transmission systems employing beams of corpuscular radiation (arrangements for handling beams of corpuscular radiation, e.g. focusing, moderating, G21K 1/00) [7] H04B 13/00 Hauptgruppe Transmission systems employing ultrasonic, sonic or infrasonic waves H04B 13/00 1-Punkt Untergruppe transmission systems in which the medium consists of the earth or a large mass of water thereon, e.g. earth telegraphy (line transmission systems with earth or water return H04B 3/00) H04B 14/00 Hauptgruppe characterised by the use of pulse modulation (in radio transmission relays H04B 7/17) [4]	H04B 10/16	2-Punkt Untergruppe	Repeaters [5]
H04B 10/20 2-Punkt Untergruppe Arrangements for networking, e.g. bus or star coupling [5] H04B 10/207 3-Punkt Untergruppe using a star-type coupler [6] H04B 10/21 1-Punkt Untergruppe using a T-type coupler [6] H04B 10/22 1-Punkt Untergruppe Bidirectional transmission (H04B 10/22, H04B 10/30 take precedence) [5, 7] H04B 10/26 2-Punkt Untergruppe using a single light source for both stations involved [6] H04B 10/28 2-Punkt Untergruppe using a single device as a light source or a light receiver [6] H04B 10/30 1-Punkt Untergruppe transmission systems employing beams of corpuscular radiation (arrangements for handling beams of corpuscular radiation, e.g. focusing, moderating, G21K 1/00) [7] H04B 11/00 Hauptgruppe Transmission systems employing ultrasonic, sonic or infrasonic waves Transmission systems characterised by the medium used for transmission, not provided for in groups H04B 3/00-H04B 11/00 H04B 13/02 1-Punkt Untergruppe Transmission systems in which the medium consists of the earth or a large mass of water thereon, e.g. earth telegraphy (line transmission systems with earth or water return H04B 3/00) H04B 14/00 Hauptgruppe Transmission systems not characterised by the medium used for transmission (details thereof H04B 1/00) [4] H04B 14/02 1-Punkt Untergruppe characterised by the use of pulse modulation (in radio transmission relays H04B 7/17) [4]	H04B 10/17	3-Punkt Untergruppe	in which processing or amplification is carried out without conversion of the signal from optical form [6]
H04B 10/207 3-Punkt Untergruppe using a Star-type coupler [6] H04B 10/213 3-Punkt Untergruppe using a T-type coupler [6] H04B 10/22 1-Punkt Untergruppe transmission between two stations which are mobile relative to each other (H04B 10/30 takes precedence) [5, 7] H04B 10/24 1-Punkt Untergruppe using a Single light source for both stations involved [6] H04B 10/26 2-Punkt Untergruppe using a single device as a light source or a light receiver [6] H04B 10/30 2-Punkt Untergruppe transmission systems employing beams of corpuscular radiation (arrangements for handling beams of corpuscular radiation, e.g. focusing, moderating, G21k 1/00) [7] H04B 11/00 Hauptgruppe Transmission systems employing ultrasonic, sonic or infrasonic waves H04B 13/00 1-Punkt Untergruppe Transmission systems characterised by the medium used for transmission, not provided for in groups H04B 3/00-H04B 11/00 H04B 14/00 Hauptgruppe Transmission systems in which the medium consists of the earth or a large mass of water thereon, e.g. earth telegraphy (line transmission systems with earth or water return H04B 3/00) H04B 14/00 Hauptgruppe Transmission systems not characterised by the medium used for transmission (details thereof H04B 1/00) [4] H04B 14/02 1-Punkt Untergruppe . characterised by the use of pulse modulation (in radio transmission relays H04B 7/17) [4]	H04B 10/18	2-Punkt Untergruppe	Arrangements for reducing or eliminating distortion or dispersion, e.g. equalisers [5]
H04B 10/213 3-Punkt Untergruppe using a T-type coupler [6] H04B 10/22 1-Punkt Untergruppe Bidirectional transmission (H04B 10/22, H04B 10/30 take precedence) [5, 7] H04B 10/24 1-Punkt Untergruppe using a single light source for both stations involved [6] H04B 10/28 2-Punkt Untergruppe using a single device as a light source or a light receiver [6] H04B 10/30 1-Punkt Untergruppe transmission systems employing beams of corpuscular radiation (arrangements for handling beams of corpuscular radiation, e.g. focusing, moderating, G21K 1/00) [7] H04B 11/00 Hauptgruppe Transmission systems employing ultrasonic, sonic or infrasonic waves H04B 13/00 H04B 13/00 H04B 13/00 1-Punkt Untergruppe Transmission systems characterised by the medium used for transmission, not provided for in groups H04B 3/00-H04B 11/00 H04B 14/00 H04B 14/00 Hauptgruppe Transmission systems in which the medium consists of the earth or a large mass of water thereon, e.g. earth telegraphy (line transmission systems with earth or water return H04B 3/00) H04B 14/00 H04B 14/00 1-Punkt Untergruppe characterised by the use of pulse modulation (in radio transmission relays H04B 7/17) [4]	H04B 10/20	2-Punkt Untergruppe	Arrangements for networking, e.g. bus or star coupling [5]
1-Punkt Untergruppe . Transmission between two stations which are mobile relative to each other (H04B 10/30 takes precedence) [5, 7] H04B 10/24	H04B 10/207	3-Punkt Untergruppe	using a star-type coupler [6]
H04B 10/24 1-Punkt Untergruppe . Bidirectional transmission (H04B 10/22, H04B 10/30 take precedence) [5, 7] H04B 10/26 2-Punkt Untergruppe using a single light source for both stations involved [6] H04B 10/28 2-Punkt Untergruppe using a single device as a light source or a light receiver [6] H04B 10/30 1-Punkt Untergruppe . Transmission systems employing beams of corpuscular radiation (arrangements for handling beams of corpuscular radiation, e.g. focusing, moderating, G21K 1/00) [7] H04B 11/00 Hauptgruppe Transmission systems employing ultrasonic, sonic or infrasonic waves H04B 13/00 Hauptgruppe Transmission systems characterised by the medium used for transmission, not provided for in groups H04B 3/00-H04B 11/00 H04B 13/02 1-Punkt Untergruppe Transmission systems in which the medium consists of the earth or a large mass of water thereon, e.g. earth telegraphy (line transmission systems with earth or water return H04B 3/00) H04B 14/00 Hauptgruppe Transmission systems not characterised by the medium used for transmission (details thereof H04B 1/00) [4] H04B 14/02 1-Punkt Untergruppe . characterised by the use of pulse modulation (in radio transmission relays H04B 7/17) [4]	H04B 10/213	3-Punkt Untergruppe	using a T-type coupler [6]
H04B 10/26 2-Punkt Untergruppe using a single light source for both stations involved [6] H04B 10/28 2-Punkt Untergruppe using a single device as a light source or a light receiver [6] H04B 10/30 1-Punkt Untergruppe Transmission systems employing beams of corpuscular radiation (arrangements for handling beams of corpuscular radiation, e.g. focusing, moderating, G21K 1/00) [7] H04B 11/00 Hauptgruppe Transmission systems employing ultrasonic, sonic or infrasonic waves Transmission systems characterised by the medium used for transmission, not provided for in groups H04B 3/00-H04B 11/00 H04B 13/02 1-Punkt Untergruppe Transmission systems in which the medium consists of the earth or a large mass of water thereon, e.g. earth telegraphy (line transmission systems with earth or water return H04B 3/00) H04B 14/00 Hauptgruppe Transmission systems not characterised by the medium used for transmission (details thereof H04B 1/00) [4] 1-Punkt Untergruppe . characterised by the use of pulse modulation (in radio transmission relays H04B 7/17) [4]	H04B 10/22	1-Punkt Untergruppe	•
H04B 10/28 2-Punkt Untergruppe . using a single device as a light source or a light receiver [6] H04B 10/30 1-Punkt Untergruppe . Transmission systems employing beams of corpuscular radiation (arrangements for handling beams of corpuscular radiation, e.g. focusing, moderating, G21K 1/00) [7] H04B 11/00 Hauptgruppe Transmission systems employing ultrasonic, sonic or infrasonic waves Transmission systems characterised by the medium used for transmission, not provided for in groups H04B 3/00-H04B 11/00 H04B 13/02 1-Punkt Untergruppe Transmission systems in which the medium consists of the earth or a large mass of water thereon, e.g. earth telegraphy (line transmission systems with earth or water return H04B 3/00) H04B 14/00 Hauptgruppe Transmission systems not characterised by the medium used for transmission (details thereof H04B 1/00) [4] 1-Punkt Untergruppe . characterised by the use of pulse modulation (in radio transmission relays H04B 7/17) [4]	H04B 10/24	1-Punkt Untergruppe	. Bidirectional transmission (H04B 10/22, H04B 10/30 take precedence) [5, 7]
H04B 10/30 1-Punkt Untergruppe Transmission systems employing beams of corpuscular radiation (arrangements for handling beams of corpuscular radiation, e.g. focusing, moderating, G21K 1/00) [7] H04B 11/00 Hauptgruppe Transmission systems employing ultrasonic, sonic or infrasonic waves H04B 13/00 Hauptgruppe Transmission systems characterised by the medium used for transmission, not provided for in groups H04B 3/00-H04B 11/00 1-Punkt Untergruppe Transmission systems in which the medium consists of the earth or a large mass of water thereon, e.g. earth telegraphy (line transmission systems with earth or water return H04B 3/00) H04B 14/00 Hauptgruppe Transmission systems not characterised by the medium used for transmission (details thereof H04B 1/00) [4] H04B 14/02 1-Punkt Untergruppe characterised by the use of pulse modulation (in radio transmission relays H04B 7/17) [4]	H04B 10/26	2-Punkt Untergruppe	using a single light source for both stations involved [6]
Corpuscular radiation, e.g. focusing, moderating, G21K 1/00) [7] H04B 11/00 Hauptgruppe Transmission systems employing ultrasonic, sonic or infrasonic waves H04B 13/00 Hauptgruppe Transmission systems characterised by the medium used for transmission, not provided for in groups H04B 3/00-H04B 11/00 H04B 13/02 1-Punkt Untergruppe Transmission systems in which the medium consists of the earth or a large mass of water thereon, e.g. earth telegraphy (line transmission systems with earth or water return H04B 3/00) H04B 14/00 Hauptgruppe Transmission systems not characterised by the medium used for transmission (details thereof H04B 1/00) [4] H04B 14/02 1-Punkt Untergruppe . characterised by the use of pulse modulation (in radio transmission relays H04B 7/17) [4]	H04B 10/28	2-Punkt Untergruppe	using a single device as a light source or a light receiver [6]
H04B 13/00 Hauptgruppe Transmission systems characterised by the medium used for transmission, not provided for in groups H04B 3/00-H04B 11/00 1-Punkt Untergruppe Transmission systems in which the medium consists of the earth or a large mass of water thereon, e.g. earth telegraphy (line transmission systems with earth or water return H04B 3/00) H04B 14/00 Hauptgruppe Transmission systems not characterised by the medium used for transmission (details thereof H04B 1/00) [4] 1-Punkt Untergruppe characterised by the use of pulse modulation (in radio transmission relays H04B 7/17) [4]	H04B 10/30	1-Punkt Untergruppe	
groups H04B 3/00-H04B 11/00 H04B 13/02 1-Punkt Untergruppe . Transmission systems in which the medium consists of the earth or a large mass of water thereon, e.g. earth telegraphy (line transmission systems with earth or water return H04B 3/00) H04B 14/00 Hauptgruppe Transmission systems not characterised by the medium used for transmission (details thereof H04B 1/00) [4] H04B 14/02 1-Punkt Untergruppe . characterised by the use of pulse modulation (in radio transmission relays H04B 7/17) [4]	H04B 11/00	Hauptgruppe	Transmission systems employing ultrasonic, sonic or infrasonic waves
telegraphy (line transmission systems with earth or water return H04B 3/00) H04B 14/00 Hauptgruppe Transmission systems not characterised by the medium used for transmission (details thereof H04B 1/00) [4] H04B 14/02 1-Punkt Untergruppe . characterised by the use of pulse modulation (in radio transmission relays H04B 7/17) [4]	H04B 13/00	Hauptgruppe	·
H04B 1/00) [4] H04B 14/02 1-Punkt Untergruppe . characterised by the use of pulse modulation (in radio transmission relays H04B 7/17) [4]	H04B 13/02	1-Punkt Untergruppe	
	H04B 14/00	Hauptgruppe	•
H04B 14/04 2-Punkt Untergruppe using pulse code modulation (analogue/digital or digital/analogue conversion H03M 1/00) [4]	H04B 14/02	1-Punkt Untergruppe	. characterised by the use of pulse modulation (in radio transmission relays H04B 7/17) [4]
	H04B 14/04	2-Punkt Untergruppe	using pulse code modulation (analogue/digital or digital/analogue conversion H03M 1/00) [4]

H04B 10/152

Symbol	Тур	Titel
H04B 14/06	2-Punkt Untergruppe	using differential modulation, e.g. delta modulation (conversion of analogue values to or from differential modulation H03M 3/00) [4]
H04B 14/08	1-Punkt Untergruppe	. characterised by the use of a sub-carrier [4]
H04B 15/00	Hauptgruppe	Suppression or limitation of noise or interference (by means associated with receiver H04B 1/10)
H04B 15/02	1-Punkt Untergruppe	. Reducing interference from electric apparatus by means located at or near the interfering apparatus (structural association with dynamo-electric machines H02K 11/00; screening H05K 9/00)
H04B 15/04	2-Punkt Untergruppe	the interference being caused by substantially sinusoidal oscillations, e.g. in a receiver, in a tape-recorder (reducing parasitic oscillations H03B, F)
H04B 15/06	3-Punkt Untergruppe	by local oscillators of receivers
H04B 17/00	Hauptgruppe	Monitoring; Testing [2]
H04B 17/02	1-Punkt Untergruppe	. of relay systems [2]