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

1948   316   3-Punkt Untergruppe   characterised by the negative-impedance network used			11045 20,00
H048 3/20 2-Punkt Untergruppe wherein the network comprises semiconductor devices H048 3/20 2-Punkt Untergruppe using a set of bandfilters [3] H048 3/21 3-Punkt Untergruppe using a set of bandfilters [3] H048 3/22 3-Punkt Untergruppe using a replica of transmitted signal in the time domain, e.g., echo cancellers [3] H048 3/23 3-Punkt Untergruppe using a replica of transmitted signal in the time domain, e.g., echo cancellers [3] H048 3/24 2-Punkt Untergruppe Reducting interference caused by currents induced in cable sheathing or armouring H048 3/29 2-Punkt Untergruppe Reducting interference caused by unbalance current in a normally balanced line H048 3/20 2-Punkt Untergruppe Reducting cross-talk, e.g., by compensating H048 3/20 3-Punkt Untergruppe Perspective in the second control of lengths of cable during laying; by addition of balancing components to cable during laying by systematic interconnection of lengths of cable during laying; by addition of balancing components to cable during laying by systematic interconnection of lengths of cable during laying; by addition of balancing components to cable during laying by systematic interconnection of lengths of cable during laying; by addition of balancing components to cable during laying by systematic interconnection of lengths of cable during laying; by addition of balancing components to cable during laying by systematic interconnection of lengths of cable during laying; by addition of balancing components to cable during laying.  H048 3/30 2-Punkt Untergruppe circuits for by passing of ringing signals H048 3/40 2-Punkt Untergruppe Circuits for by passing of ringing signals H048 3/40 2-Punkt Untergruppe Festing attenuation H048 3/40 2-Punkt Untergruppe Festing attenuation H048 3/40 2-Punkt Untergruppe Systems for transmission between fixed stations <u>via</u> waveguides H048 3/50 1-Punkt Untergruppe Systems for transmission between fixed stations <u>via</u> waveguides H048 3/50 1-Punkt Unter	Symbol	Тур	Titel
HOBB 3/20 2-Punkt Untergruppe Reducing echo effects or singing, Opening or closing transmitting path; Conditioning for transmission in one direction or the other  1048 3/21 3-Punkt Untergruppe using a replica of transmitted signal in the time domain, e.g. echo cancellers [3]  1048 3/26 2-Punkt Untergruppe Reducing interference caused by currents induced in cable sheathing or armouring  1048 3/26 2-Punkt Untergruppe Reducing interference caused by unbalance current in a normally balanced line  1048 3/26 2-Punkt Untergruppe Reducing interference caused by unbalance current in a normally balanced line  1048 3/26 2-Punkt Untergruppe Reducing interference caused by unbalance current in a normally balanced line  1048 3/26 2-Punkt Untergruppe Repeater circuits (1048 3/28 takes precedence, amplifiers therefor HD3P)  1049 3/26 2-Punkt Untergruppe Repeater circuits (1048 3/28 takes precedence, amplifiers therefor HD3P)  1049 3/26 2-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length  1049 3/26 2-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length  1049 3/26 2-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length  1049 3/26 2-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length  1049 3/26 2-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length  1049 3/26 2-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length  1049 3/26 2-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length  1049 3/26 2-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length  1049 3/26 2-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length  1049 3/26 2-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length  1049 3/26 2-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length  1049 3/26 2-	H04B 3/16	3-Punkt Untergruppe	characterised by the negative-impedance network used
No.	H04B 3/18	4-Punkt Untergruppe	wherein the network comprises semiconductor devices
Ho48 3/23 3-Punkt Untergruppe using a replica of transmitted signal in the time domain, e.g. echo cancellers (3)  Ho48 3/26 2-Punkt Untergruppe Improving frequency characteristic by the use of loading coils (loading coils <u>per sel</u> H01F 17/08)  Ho48 3/28 2-Punkt Untergruppe Reducing interference caused by currents induced in cable sheathing or amouring  Ho48 3/30 2-Punkt Untergruppe Reducing interference caused by unbalance current in a normally balanced line  Ho48 3/30 2-Punkt Untergruppe Reducing interference caused by unbalance current in a normally balanced line  Ho48 3/30 3-Punkt Untergruppe Sequence caused by compensating  Ho48 3/30 3-Punkt Untergruppe Per per per circuits (Ho48 9/58 takes precedence; amplifiers therefor Ho3F)  Ho48 3/30 3-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length  Ho48 3/40 2-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length  Ho48 3/40 2-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length  Ho48 3/40 2-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length  Ho48 3/40 2-Punkt Untergruppe Arrangements for feeding power to a repeater along the transmission line  Ho48 3/40 3-Punkt Untergruppe Testing attenuation  Ho48 3/40 3-Punkt Untergruppe Testing attenuation  Ho48 3/50 1-Punkt Untergruppe Systems for transmission between fixed stations <u>via</u> waveguides  Ho48 3/50 1-Punkt Untergruppe Systems for transmission between fixed stations <u>via</u> waveguides  Ho48 3/50 2-Punkt Untergruppe Circuits for coupling, blocking, or by-passing of signals  Ho48 3/50 1-Punkt Untergruppe Systems for transmission via power distribution lines (in alarm signalling systems G088 25/06; remote indication of power network conditions, remote control of switching means in a power distribution network Ho20 3/54 takes precedence)  Ho48 3/50 1-Punkt Untergruppe Systems for transmission with power distribution lines (in alarm si	H04B 3/20	2-Punkt Untergruppe	
H048 3/26 2-Punkt Untergruppe Improving frequency characteristic by the use of loading coils (loading coils <u>per se</u> H01F 17/08) H048 3/28 2-Punkt Untergruppe Reducing interference caused by currents induced in cable sheathing or armouring H048 3/30 2-Punkt Untergruppe Reducing interference caused by unbalance current in a normally balanced line H048 3/32 2-Punkt Untergruppe Reducing interference caused by unbalance current in a normally balanced line H048 3/34 3-Punkt Untergruppe Provide the provided in the provided of the provided	H04B 3/21	3-Punkt Untergruppe	using a set of bandfilters [3]
HO48 3/28 2-Punkt Untergruppe Reducing interference caused by currents induced in cable sheathing or armouring HO48 3/30 2-Punkt Untergruppe Reducing interference caused by unbalance current in a normally balanced line HO48 3/32 2-Punkt Untergruppe Reducing cross-talk, e.g. by compensating HO48 3/34 3-Punkt Untergruppe by systematic interconnection of lengths of cable during laying; by addition of balancing components to cable during laying. By addition of balancing components to cable during laying. HO48 3/36 2-Punkt Untergruppe for signals in two different frequency ranges transmitted in opposite directions over the same transmission path HO48 3/38 3-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length HO48 3/42 2-Punkt Untergruppe Arrangements for feeding power to a repeater along the transmission line HO48 3/46 2-Punkt Untergruppe Monitoring; Testing HO48 3/46 2-Punkt Untergruppe Testing alternuation HO48 3/30 3-Punkt Untergruppe Testing alternuation HO48 3/30 1-Punkt Untergruppe Systems for transmission between fixed stations via two-conductor transmission lines (HO48 3/54 takes precedence) HO48 3/32 1-Punkt Untergruppe Systems for transmission between fixed stations via two-conductor transmission lines (HO48 3/54 takes precedence) HO48 3/34 1-Punkt Untergruppe Systems for transmission between fixed stations via waveguides HO48 3/36 2-Punkt Untergruppe Systems for transmission stations via power distribution lines (in alarm signalling systems G088 25/06; remote indication of power network conditions, remote control of switching means in a power distribution network HO2/13/00) HO48 3/36 2-Punkt Untergruppe Repeater circuits (amplifiers therefor HO3F) HO48 3/36 1-Punkt Untergruppe Repeater circuits (amplifiers therefor HO3F) HO48 3/36 1-Punkt Untergruppe Repeater circuits (amplifiers therefor HO3F) HO48 3/36 1-Punkt Untergruppe Repeater circuits (amplifiers therefor HO3F) HO48 3/36 1-Punkt Untergruppe Repe	H04B 3/23	3-Punkt Untergruppe	using a replica of transmitted signal in the time domain, e.g. echo cancellers [3]
H048 3/30 2-Punkt Untergruppe Reducing interference caused by unbalance current in a normally balanced line H048 3/32 2-Punkt Untergruppe Reducing cross-talk, e.g. by compensating H048 3/34 3-Punkt Untergruppe by systematic interconnection of lengths of cable during laying; by addition of balancing components to cable during laying : by addition of balancing components to cable during laying : by addition of balancing components to cable during laying : by addition of balancing components to cable during laying : by addition of balancing components to cable during laying : by addition of balancing components to cable during laying : by addition of balancing components to cable during laying : by addition of balancing components to cable during laying : by addition of balancing components to cable during laying : by addition of balancing components to cable during laying : by addition of balancing components to cable during laying : by addition of balancing components to cable during laying : by addition of balancing components to cable during laying: by addition of balancing components to cable during laying: by addition of balancing components to cable during laying: by addition of balancing components to cable during laying: by addition of balancing components to cable during laying: by addition of balancing components to cable during laying: by addition of balancing components to cable during laying: by addition of balancing components to cable during laying: by addition of balancing components to cable during laying: by addition of balancing components to cable during laying: by addition of balancing components to cable during laying: by addition of paper the end of laying signals  1-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length  1-Punkt Untergruppe Circuits for transmission between fixed stations via transmission lines (H048 3/54 takes precedence)  1-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length  1-Punkt Untergrup	H04B 3/26	2-Punkt Untergruppe	Improving frequency characteristic by the use of loading coils (loading coils <u>per se</u> H01F 17/08)
H04B 3/32 2-Punkt Untergruppe Reducing cross-talk, e.g. by compensating H04B 3/34 3-Punkt Untergruppe Bepeater circuits (H04B 3/58 takes precedence; amplifiers therefor H03F) H04B 3/36 2-Punkt Untergruppe Repeater circuits (H04B 3/58 takes precedence; amplifiers therefor H03F) H04B 3/38 3-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length H04B 3/40 2-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length H04B 3/42 2-Punkt Untergruppe Arrangements for feeding power to a repeater along the transmission line H04B 3/44 2-Punkt Untergruppe Arrangements for feeding power to a repeater along the transmission line H04B 3/46 3-Punkt Untergruppe Testing attenuation H04B 3/46 3-Punkt Untergruppe Testing attenuation H04B 3/50 1-Punkt Untergruppe Systems for transmission between fixed stations via two-conductor transmission lines (H04B 3/54 takes precedence) H04B 3/54 1-Punkt Untergruppe Systems for transmission between fixed stations via waveguides H04B 3/54 2-Punkt Untergruppe Systems for transmission between fixed stations via waveguides H04B 3/56 2-Punkt Untergruppe Circuits for coupling, blocking, or by-passing of signals H04B 3/56 2-Punkt Untergruppe Repeater circuits (ampliflers therefor H03F) H04B 3/58 2-Punkt Untergruppe Systems for communication between relatively movable stations, e.g. for communication with lift (H04B 3/56 1-Punkt Untergruppe Systems for communication between relatively movable stations, e.g. for communication with lift (H04B 3/56 1-Punkt Untergruppe Systems for communication between relatively movable stations, e.g. for communication with lift (H04B 3/56 1-Punkt Untergruppe Systems for communication between relatively movable stations, e.g. for communication with lift (H04B 3/56 1-Punkt Untergruppe Systems for communication systems, e.g. inductive loop type  H04B 5/06 1-Punkt Untergruppe susing a portable transmitter associated with a microphone	H04B 3/28	2-Punkt Untergruppe	Reducing interference caused by currents induced in cable sheathing or armouring
H048 3/34 3-Punkt Untergruppe by systematic interconnection of lengths of cable during laying; by addition of balancing components to cable during laying  2-Punkt Untergruppe for signals in two different frequency ranges transmitted in opposite directions over the same transmission path  4-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length  4-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length  4-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length  4-Punkt Untergruppe Arrangements for feeding power to a repeater along the transmission line  4-Punkt Untergruppe Monitoring: Testing  4-Punkt Untergruppe Testing attenuation  4-Punkt Untergruppe Systems for transmission between fixed stations via two-conductor transmission lines (H048 3/54 takes precedence)  4-Punkt Untergruppe Systems for transmission between fixed stations via waveguides  4-Punkt Untergruppe Systems for transmission between fixed stations via waveguides  4-Punkt Untergruppe Systems for transmission between fixed stations via waveguides  4-Punkt Untergruppe Systems for transmission between fixed stations via waveguides  4-Punkt Untergruppe Systems for transmission between fixed stations via waveguides  4-Punkt Untergruppe Systems for transmission via power distribution lines (in alarm signalling systems G088 25/06; remote indication of power network conditions, remote control of switching means in a power distribution network H021 13/00)  4-Punkt Untergruppe Repeater circuits (amplifiers therefor H03F)  4-Punkt Untergruppe Systems for communication between relatively movable stations, e.g. for communication with lift (H048 3/54 takes precedence)  4-Punkt Untergruppe Systems for communication between relatively movable stations, e.g. for communication with lift (H048 3/54 takes precedence)  4-Punkt Untergruppe Systems for communication between relatively movable stations, e.g. for communi	H04B 3/30	2-Punkt Untergruppe	Reducing interference caused by unbalance current in a normally balanced line
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 yia two-conductor transmission lines (H04B 3/54 takes precedence) H04B 3/52 1-Punkt Untergruppe Systems for transmission between fixed stations yia waveguides H04B 3/54 1-Punkt Untergruppe Systems for transmission between fixed stations yia waveguides H04B 3/54 2-Punkt Untergruppe Systems for transmission 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 H02/1 3/000 H04B 3/56 2-Punkt Untergruppe Repeater circuits (amplifiers therefor H03F) H04B 3/60 1-Punkt Untergruppe Systems for coupling, blocking, or by-passing of signals 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 1-Punkt Untergruppe calling systems, e.g. paging system H04B 5/00 1-Punkt Untergruppe calling systems, e.g. paging system H04B 5/00 1-Punkt Untergruppe calling systems, e.g. paging system	H04B 3/32	2-Punkt Untergruppe	Reducing cross-talk, e.g. by compensating
H04B 3/38 3-Punkt Untergruppe Artificial lines; Networks simulating a line of certain length 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 3/49 3-Punkt Untergruppe Testing attenuation H04B 3/50 1-Punkt Untergruppe Systems for transmission between fixed stations via two-conductor transmission lines (H04B 3/54 takes precedence) H04B 3/52 1-Punkt Untergruppe Systems for transmission between fixed stations via waveguides H04B 3/54 2-Punkt Untergruppe Systems for transmission 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 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 5/04 1-Punkt Untergruppe sign transceiver H04B 5/06 1-Punkt Untergruppe calling systems, e.g. paging system H04B 5/06 1-Punkt Untergruppe using a portable transmitter associated with a microphone	H04B 3/34	3-Punkt Untergruppe	
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 3/49 3-Punkt Untergruppe Systems for transmission between fixed stations via two-conductor transmission lines (H04B 3/54 takes precedence) H04B 3/50 1-Punkt Untergruppe Systems for transmission between fixed stations via waveguides H04B 3/54 2-Punkt Untergruppe Systems for transmission between fixed stations via waveguides H04B 3/54 2-Punkt Untergruppe Systems for transmission 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 Repeater circuits (amplifiers therefor H03F) H04B 3/50 1-Punkt Untergruppe Systems for communication between relatively movable stations, e.g. for communication with lift (H04B 3/54 takes precedence) H04B 5/04 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 transmistion switch a microphone	H04B 3/36	2-Punkt Untergruppe	Repeater circuits (H04B 3/58 takes precedence; amplifiers therefor H03F)
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 via two-conductor transmission lines (H04B 3/54 takes precedence) H04B 3/52 1-Punkt Untergruppe Systems for transmission between fixed stations via waveguides H04B 3/54 1-Punkt Untergruppe Systems for transmission between fixed stations via waveguides H04B 3/54 2-Punkt Untergruppe Systems for transmission 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 Repeater circuits (amplifiers therefor H03F) H04B 3/50 1-Punkt Untergruppe Systems for communication between relatively movable stations, e.g. for communication with lift (H04B 3/54 takes precedence) H04B 5/00 1-Punkt Untergruppe using transceiver H04B 5/04 1-Punkt Untergruppe calling systems, e.g. paging system H04B 5/06 1-Punkt Untergruppe calling systems, e.g. paging system H04B 5/06 1-Punkt Untergruppe using a portable transmitter associated with a microphone	H04B 3/38	3-Punkt Untergruppe	
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 via two-conductor transmission lines (H04B 3/54 takes precedence) H04B 3/52 1-Punkt Untergruppe Systems for transmission between fixed stations via waveguides H04B 3/54 1-Punkt Untergruppe Systems for transmission 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 3/56 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 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 3/40	2-Punkt Untergruppe	Artificial lines; Networks simulating a line of certain length
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 via two-conductor transmission lines (H04B 3/54 takes precedence) H04B 3/52 1-Punkt Untergruppe Systems for transmission between fixed stations via waveguides H04B 3/54 1-Punkt Untergruppe Systems for transmission between fixed stations via waveguides H04B 3/54 2-Punkt Untergruppe Systems for transmission 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 3/50 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 3/64 takes precedence) H04B 5/00 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 3/42	2-Punkt Untergruppe	Circuits for by-passing of ringing signals
H04B 3/48 3-Punkt Untergruppe Testing attenuation  1-Punkt Untergruppe Systems for transmission between fixed stations via two-conductor transmission lines (H04B 3/54 takes precedence)  1-Punkt Untergruppe . Systems for transmission between fixed stations via waveguides  1-Punkt Untergruppe . Systems for transmission 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)  1-Punkt Untergruppe Circuits for coupling, blocking, or by-passing of signals  1-Punkt Untergruppe Repeater circuits (amplifiers therefor H03F)  1-Punkt Untergruppe . Systems for communication between relatively movable stations, e.g. for communication with lift (H04B 3/56 takes precedence)  1-Punkt Untergruppe . using transceiver  1-Punkt Untergruppe . using transceiver  1-Punkt Untergruppe . Calling systems, e.g. paging system  1-Punkt Untergruppe . using a portable transmitter associated with a microphone	H04B 3/44	2-Punkt Untergruppe	Arrangements for feeding power to a repeater along the transmission line
H048 3/50  1-Punkt Untergruppe Systems for transmission between fixed stations via two-conductor transmission lines (H04B 3/54 takes precedence)  1-Punkt Untergruppe Systems for transmission between fixed stations via waveguides  1-Punkt Untergruppe Systems for transmission 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  2-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 5/04  1-Punkt Untergruppe Calling systems, e.g. paging system  H04B 5/06  1-Punkt Untergruppe Using a portable transmitter associated with a microphone	H04B 3/46	2-Punkt Untergruppe	Monitoring; Testing
H04B 3/52  1-Punkt Untergruppe Systems for transmission between fixed stations <u>via</u> waveguides  1-Punkt Untergruppe Systems for transmission <u>via</u> 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  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 5/04  1-Punkt Untergruppe Calling systems, e.g. paging system  H04B 5/06  1-Punkt Untergruppe Using a portable transmitter associated with a microphone	H04B 3/48	3-Punkt Untergruppe	Testing attenuation
H04B 3/54  1-Punkt Untergruppe Systems for transmission 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  2-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 Using transceiver  H04B 5/06  1-Punkt Untergruppe Using a portable transmitter associated with a microphone	H04B 3/50	1-Punkt Untergruppe	. Systems for transmission between fixed stations <u>via</u> two-conductor transmission lines (no4b 3/34 takes
H04B 3/56  2-Punkt Untergruppe  Circuits for coupling, blocking, or by-passing of signals  2-Punkt Untergruppe  Repeater circuits (amplifiers therefor H03F)  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  Calling systems, e.g. paging system  Lough Untergruppe  Lough Unterg	H04B 3/52	1-Punkt Untergruppe	. Systems for transmission between fixed stations <u>via</u> waveguides
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 3/54	1-Punkt Untergruppe	. Systems for transmission <u>via</u> power distribution lines (in alarm signalling systems G08B 25/06; remote
H04B 3/58  2-Punkt Untergruppe Systems for communication between relatively movable stations, e.g. for communication with lift (H04B 3/50 Hauptgruppe 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 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  1-Punkt Untergruppe using transceiver  H04B 5/04  1-Punkt Untergruppe Calling systems, e.g. paging system  1-Punkt Untergruppe using a portable transmitter associated with a microphone	H04B 3/56	2-Punkt Untergruppe	Circuits for coupling, blocking, or by-passing of signals
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 3/58	2-Punkt Untergruppe	Repeater circuits (amplifiers therefor H03F)
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 3/60	1-Punkt Untergruppe	
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 5/00	Hauptgruppe	Near-field transmission systems, e.g. inductive loop type
H04B 5/06 1-Punkt Untergruppe . using a portable transmitter associated with a microphone	H04B 5/02	1-Punkt Untergruppe	. using transceiver
	H04B 5/04	1-Punkt Untergruppe	. Calling systems, e.g. paging system
H04B 7/00 Hauptgruppe Radio transmission systems, i.e. using radiation field (H04B 10/00, H04B 15/00 take precedence)	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]

		ПО4В 10/00
Symbol	Тур	Titel
H04B 10/08	2-Punkt Untergruppe	Equipment for monitoring, testing or fault measuring [5]
H04B 10/10	1-Punkt Untergruppe	. Transmission through free space, e.g. through the atmosphere (H04B 10/22, H04B 10/24, H04B 10/30 take precedence) [5, 7]
H04B 10/105	2-Punkt Untergruppe	specially adapted for satellite links [6]
H04B 10/12	1-Punkt Untergruppe	. Transmission through light guides, e.g. optical fibres (H04B 10/22, H04B 10/24, H04B 10/30 take precedence ) [5, 7]
H04B 10/13	2-Punkt Untergruppe	using multimodal transmission [6]
H04B 10/135	2-Punkt Untergruppe	using single mode transmission [6]
H04B 10/14	2-Punkt Untergruppe	Terminal stations [5]
H04B 10/142	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 10/158	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 10/213	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	. 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 14/04	2-Punkt Untergruppe	using pulse code modulation (analogue/digital or digital/analogue conversion H03M 1/00) [4]

## H04B 10/06

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]