

Symbol	Typ	Titel
H	Sektion	SECTION H — ELECTRICITY
H04	Klasse	ELECTRIC COMMUNICATION TECHNIQUE
H04M	Unterklasse	TELEPHONIC COMMUNICATION (counting mechanisms G06M; circuits for controlling other apparatus <u>via</u> a telephone cable and not involving telephone switching apparatus G08; reels or other take-up devices for cords H02G 11/00; multiplex transmission between switching centres H04J; selecting arrangements H04Q; loudspeakers, microphones, gramophone pick-ups or like electromechanical transducers H04R)
H04M 1/00	Hauptgruppe	Substation equipment, e.g. for use by subscribers (subscriber services or facilities provided at exchanges H04M 3/00; prepayment telephone coin boxes H04M 17/00; current supply arrangements H04M 19/08; keyboard switches in general H01H 13/70, H03K 17/94) [1, 7]
H04M 1/02	1-Punkt Untergruppe	. Constructional features of telephone sets
H04M 1/03	2-Punkt Untergruppe	. . Constructional features of telephone transmitters or receivers, e.g. telephone hand-sets (transducers in general H04R 1/00) [2]
H04M 1/04	2-Punkt Untergruppe	. . Supports for telephone transmitters or receivers (for transducers in general H04R 1/00)
H04M 1/05	3-Punkt Untergruppe	. . . adapted for use on head, throat, or breast
H04M 1/06	3-Punkt Untergruppe	. . . Hooks; Cradles
H04M 1/08	4-Punkt Untergruppe	. . . . associated with switches operated by weight of receiver or hand-set
H04M 1/10	4-Punkt Untergruppe	. . . . associated with switches operated by magnetic effect due to proximity of receiver or hand-set
H04M 1/11	2-Punkt Untergruppe	. . Supports for sets, e.g. incorporating armrests
H04M 1/12	3-Punkt Untergruppe	. . . Adjustable supports, e.g. extensible
H04M 1/13	4-Punkt Untergruppe	. . . . pantographic
H04M 1/14	3-Punkt Untergruppe	. . . with resilient means to eliminate extraneous vibrations
H04M 1/15	2-Punkt Untergruppe	. . Protection or guiding telephone cords (devices specially adapted or mounted for storing and repeatedly paying-out and restoring lengths of material B65H 75/34; in general H02G 11/00) [5]
H04M 1/17	2-Punkt Untergruppe	. . Hygienic or sanitary devices on telephone equipment (for mouthpieces or earpieces H04R 1/12) [2]
H04M 1/18	2-Punkt Untergruppe	. . Telephone sets modified for use in ships, mines, or other places exposed to adverse environment (H04M 1/19 takes precedence; telephone cabinets E04H 1/14)
H04M 1/19	2-Punkt Untergruppe	. . Arrangements of transmitters, receivers, or complete sets to prevent eavesdropping, to attenuate local noise or to prevent undesired transmission; Special mouthpieces or receivers therefor (circuit arrangements for preventing eavesdropping H04M 1/68; telephone cabinets E04H 1/14)
H04M 1/20	2-Punkt Untergruppe	. . Arrangements for preventing acoustic feedback (H04M 1/62 takes precedence)
H04M 1/21	2-Punkt Untergruppe	. . Combinations with auxiliary equipment, e.g. with clock, with memoranda pad
H04M 1/215	3-Punkt Untergruppe	. . . by non-intrusive coupling means, e.g. acoustic couplers [7]
H04M 1/22	2-Punkt Untergruppe	. . Illuminating; Arrangements for improving visibility of characters on dials
H04M 1/23	2-Punkt Untergruppe	. . Construction or mounting of dials or of equivalent devices; Means for facilitating the use thereof (by improving visibility H04M 1/22)
H04M 1/24	1-Punkt Untergruppe	. Arrangements for testing (measuring electric values G01R; testing transducers H04R 29/00)

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H04M 1/247	1-Punkt Untergruppe	. Telephone sets including user guidance or feature selection means facilitating their use [7]
H04M 1/253	1-Punkt Untergruppe	. Telephone sets using digital voice transmission (simultaneous speech and data transmission H04M 11/06) [7]
H04M 1/26	1-Punkt Untergruppe	. Devices for calling a subscriber (H04M 1/66 takes precedence; coding in connection with keyboards or like devices, in general H03M 11/00) [1, 7]
H04M 1/27	2-Punkt Untergruppe	. . Devices whereby a plurality of signals may be stored simultaneously [2]
H04M 1/272	3-Punkt Untergruppe	. . . with provision for storing only one subscriber number at a time, e.g. by keyboard or dial [2]
H04M 1/274	3-Punkt Untergruppe	. . . with provision for storing more than one subscriber number at a time, e.g. using toothed disc [2]
H04M 1/2745	4-Punkt Untergruppe	. . . . using static electronic memories, i.e. memories whose operation does not require relative movement between storage means and a transducer, e.g. chip [7]
H04M 1/275	5-Punkt Untergruppe	. . . . . implemented by means of portable electronic directories [7]
H04M 1/2755	5-Punkt Untergruppe	. . . . . whose contents are provided by optical scanning [7]
H04M 1/276	4-Punkt Untergruppe	. . . . using magnetic recording, e.g. on tape [2]
H04M 1/278	4-Punkt Untergruppe	. . . . using punched cards or tapes [2]
H04M 1/30	2-Punkt Untergruppe	. . Devices which can set up and transmit only one digit at a time
H04M 1/31	3-Punkt Untergruppe	. . . by interrupting current to generate trains of pulses; by periodically opening and closing contacts to generate trains of pulses [2]
H04M 1/315	4-Punkt Untergruppe	. . . . Clutches, spring assemblies, speed regulators, e.g. centrifugal brakes (H04M 1/32-H04M 1/40 take precedence) [3]
H04M 1/32	4-Punkt Untergruppe	. . . . Locking setting devices during transmission to prevent interference by user
H04M 1/34	4-Punkt Untergruppe	. . . . Lost-motion or other arrangements for ensuring a pause between successive digit transmissions
H04M 1/38	4-Punkt Untergruppe	. . . . Pulses transmitted by a movement variably limited by the setting of a stop
H04M 1/40	4-Punkt Untergruppe	. . . . wherein the setting-operation short-circuits or open-circuits the transmitting mechanism during a variable part of a cycle
H04M 1/50	3-Punkt Untergruppe	. . . by generating or selecting currents of predetermined frequencies or combinations of frequencies [2]
H04M 1/515	2-Punkt Untergruppe	. . by generating or selecting other signals than trains of pulses of similar shape or other signals than currents of one or more different frequencies, e.g. generation of dc signals of alternating polarity, coded pulses, impedance dialling [2]
H04M 1/52	2-Punkt Untergruppe	. . Arrangements wherein a dial or equivalent is mechanically coupled to a line selector
H04M 1/53	2-Punkt Untergruppe	. . Generation of additional signals, e.g. additional pulses [2]
H04M 1/54	3-Punkt Untergruppe	. . . Arrangements wherein a dial or equivalent generates identifying signals, e.g. in party-line systems [2]
H04M 1/56	1-Punkt Untergruppe	. Arrangements for indicating or recording the called number at the calling subscriber's set
H04M 1/57	1-Punkt Untergruppe	. Arrangements for indicating or recording the number of the calling subscriber at the called subscriber's set (at the operator set in a manual exchange H04M 5/20) [2]
H04M 1/58	1-Punkt Untergruppe	. Anti-side-tone circuits (hybrid circuits for carrier-frequency operation H04B 1/00)
H04M 1/60	1-Punkt Untergruppe	. including speech amplifiers
H04M 1/62	2-Punkt Untergruppe	. . Constructional arrangements

Symbol	Typ	Titel
H04M 1/64	1-Punkt Untergruppe	. Automatic arrangements for answering calls; Automatic arrangements for recording messages for absent subscribers; Arrangements for recording conversations (centralised dictation systems H04M 11/10) [1, 7]
H04M 1/65	2-Punkt Untergruppe	. . Recording arrangements [2, 7]
H04M 1/652	3-Punkt Untergruppe	. . . Means for playing back the recorded messages by remote control over a telephone line (H04M 1/658 takes precedence) [7]
H04M 1/654	3-Punkt Untergruppe	. . . Telephone line monitoring circuits therefor, e.g. ring detectors [7]
H04M 1/656	3-Punkt Untergruppe	. . . for recording conversations [7]
H04M 1/658	3-Punkt Untergruppe	. . . Means for redirecting recorded messages to other extensions or equipment [7]
H04M 1/66	1-Punkt Untergruppe	. with means for preventing unauthorised or fraudulent calling (verifying user identity or authority in secret or secure digital communications H04L 9/32) [1, 7]
H04M 1/663	2-Punkt Untergruppe	. . Preventing unauthorised calls to a telephone set [7]
H04M 1/665	3-Punkt Untergruppe	. . . by checking the validity of a code [7]
H04M 1/667	2-Punkt Untergruppe	. . Preventing unauthorised calls from a telephone set (H04M 1/677 takes precedence) [7]
H04M 1/67	3-Punkt Untergruppe	. . . by electronic means [7]
H04M 1/673	4-Punkt Untergruppe	. . . . the user being required to key in a code [7]
H04M 1/675	4-Punkt Untergruppe	. . . . the user being required to insert a coded card, e.g. a smart card carrying an integrated circuit chip [7]
H04M 1/677	2-Punkt Untergruppe	. . Preventing the dialling or sending of predetermined telephone numbers or selected types of telephone numbers, e.g. long distance [7]
H04M 1/68	1-Punkt Untergruppe	. Circuit arrangements for preventing eavesdropping
H04M 1/70	2-Punkt Untergruppe	. . Lock-out or secrecy arrangements in party-line systems
H04M 1/72	1-Punkt Untergruppe	. Substation extension arrangements; Cordless telephones, i.e. devices for establishing wireless links to base stations without route selecting [1, 7]
H04M 1/723	2-Punkt Untergruppe	. . using two or more extensions per line (H04M 1/725 takes precedence) [7]
H04M 1/725	2-Punkt Untergruppe	. . Cordless telephones [7]
H04M 1/727	3-Punkt Untergruppe	. . . Identification code transfer arrangements [7]
H04M 1/73	3-Punkt Untergruppe	. . . Battery saving arrangements [7]
H04M 1/733	3-Punkt Untergruppe	. . . with a plurality of base stations connected to a plurality of lines [7]
H04M 1/737	3-Punkt Untergruppe	. . . characterised by transmission of electromagnetic waves other than radio waves, e.g. infra-red [7]
H04M 1/738	1-Punkt Untergruppe	. Interface circuits for coupling substations to external telephone lines (H04M 1/78 takes precedence) [7]
H04M 1/74	2-Punkt Untergruppe	. . with means for reducing interference; with means for reducing effects due to line faults
H04M 1/76	2-Punkt Untergruppe	. . Compensating for differences in line impedance (in general H04B)
H04M 1/78	1-Punkt Untergruppe	. Circuit arrangements in which low-frequency speech signals proceed in one direction on the line, while speech signals proceeding in the other direction on the line are modulated on a high-frequency carrier signal (repeater circuits H04B 3/38) [2]
H04M 1/80	1-Punkt Untergruppe	. Telephone line holding circuits [7]

Symbol	Typ	Titel
H04M 1/82	1-Punkt Untergruppe	. Line monitoring circuits for call progress or status discrimination [7]
H04M 3/00	Hauptgruppe	Automatic or semi-automatic exchanges
H04M 3/02	1-Punkt Untergruppe	. Ringing or otherwise calling substations (selective calling H04Q)
H04M 3/04	2-Punkt Untergruppe	. . calling signal supplied from final selector
H04M 3/06	2-Punkt Untergruppe	. . calling signal supplied from subscriber's line circuit
H04M 3/08	1-Punkt Untergruppe	. Indicating faults in circuits or apparatus
H04M 3/10	2-Punkt Untergruppe	. . providing fault- or trouble-signals
H04M 3/12	2-Punkt Untergruppe	. . Marking faulty circuits "busy"; Enabling equipment to disengage itself from faulty circuits
H04M 3/14	2-Punkt Untergruppe	. . Signalling existence of persistent "off-hook" condition
H04M 3/16	1-Punkt Untergruppe	. with lock-out or secrecy provision in party-line systems
H04M 3/18	1-Punkt Untergruppe	. with means for reducing interference; with means for reducing effects due to line faults
H04M 3/20	1-Punkt Untergruppe	. with means for interrupting existing connections; with means for breaking-in on conversations
H04M 3/22	1-Punkt Untergruppe	. Supervisory, monitoring, or testing arrangements
H04M 3/24	2-Punkt Untergruppe	. . with provision for checking the normal operation
H04M 3/26	2-Punkt Untergruppe	. . with means for applying test signals
H04M 3/28	3-Punkt Untergruppe	. . . Automatic routine testing
H04M 3/30	4-Punkt Untergruppe	. . . . for subscribers' lines
H04M 3/32	4-Punkt Untergruppe	. . . . for lines between exchanges
H04M 3/34	3-Punkt Untergruppe	. . . Testing for cross-talk (in lines generally H04B)
H04M 3/36	2-Punkt Untergruppe	. . Statistical metering, e.g. recording occasions when traffic exceeds capacity of trunks (digital computers for evaluating statistical data G06F 17/18)
H04M 3/38	1-Punkt Untergruppe	. Graded-service arrangements, i.e. some subscribers prevented from establishing certain connections (queuing arrangements H04Q 3/64)
H04M 3/40	1-Punkt Untergruppe	. Applications of speech amplifiers
H04M 3/42	1-Punkt Untergruppe	. Systems providing special services or facilities to subscribers
H04M 3/424	2-Punkt Untergruppe	. . Arrangements for automatic redialling (at the subscriber's set H04M 1/27) [7]
H04M 3/428	2-Punkt Untergruppe	. . Arrangements for placing incoming calls on hold [7]
H04M 3/432	2-Punkt Untergruppe	. . Arrangements for calling a subscriber at a specific time, e.g. morning call service [7]
H04M 3/436	2-Punkt Untergruppe	. . Arrangements for screening incoming calls [7]
H04M 3/44	2-Punkt Untergruppe	. . Additional connecting arrangements for providing access to frequently-wanted subscribers, e.g. abbreviated dialling (at the subscriber's set H04M 1/27; automatic redialling H04M 3/424) [1, 7]
H04M 3/46	2-Punkt Untergruppe	. . Arrangements for calling a number of substations in a predetermined sequence until an answer is obtained
H04M 3/48	2-Punkt Untergruppe	. . Arrangements for recalling a calling subscriber when the wanted subscriber ceases to be busy
H04M 3/487	2-Punkt Untergruppe	. . Arrangements for providing information services, e.g. recorded voice services, time announcement [7]

Symbol	Typ	Titel
H04M 3/493	3-Punkt Untergruppe	. . . Interactive information services, e.g. directory enquiries [7]
H04M 3/50	2-Punkt Untergruppe	. . Centralised arrangements for answering calls; Centralised arrangements for recording messages for absent or busy subscribers (H04M 3/487 takes precedence; centralised dictation systems H04M 11/10) [1, 7]
H04M 3/51	3-Punkt Untergruppe	. . . Centralised call answering arrangements requiring operator intervention [7]
H04M 3/52	4-Punkt Untergruppe	. . . . Arrangements for routing dead number calls to operators
H04M 3/523	4-Punkt Untergruppe	. . . . with call distribution or queuing [7]
H04M 3/527	3-Punkt Untergruppe	. . . Centralised call answering arrangements not requiring operator intervention [7]
H04M 3/53	3-Punkt Untergruppe	. . . Centralised arrangements for recording incoming messages [7]
H04M 3/533	4-Punkt Untergruppe	. . . . Voice mail systems [7]
H04M 3/537	4-Punkt Untergruppe	. . . . Arrangements for indicating the presence of a recorded message [7]
H04M 3/54	2-Punkt Untergruppe	. . Arrangements for diverting calls for one subscriber to another predetermined subscriber
H04M 3/56	2-Punkt Untergruppe	. . Arrangements for connecting several subscribers to a common circuit, i.e. affording conference facilities (video conference systems H04N 7/15)
H04M 3/58	2-Punkt Untergruppe	. . Arrangements for transferring received calls from one subscriber to another; Arrangements affording interim conversations between either the calling or the called party and a third party (substation line holding circuits H04M 1/80) [1, 7]
H04M 3/60	1-Punkt Untergruppe	. Semi-automatic systems, i.e. in which the numerical selection of the outgoing line is under the control of an operator
H04M 3/62	2-Punkt Untergruppe	. . Keyboard equipment
H04M 3/64	2-Punkt Untergruppe	. . Arrangements for signalling the number or class of the calling line to the operator (between operators in inter-exchange working H04M 5/18)
H04M 5/00	Hauptgruppe	Manual exchanges (substation equipment in general H04M 1/00)
H04M 5/02	1-Punkt Untergruppe	. Constructional details (jacks, jack-plugs H01R 24/04)
H04M 5/04	1-Punkt Untergruppe	. Arrangements for indicating calls or supervising connections for calling or clearing
H04M 5/06	2-Punkt Untergruppe	. . affording automatic call distribution
H04M 5/08	1-Punkt Untergruppe	. using connecting means other than cords
H04M 5/10	1-Punkt Untergruppe	. using separate plug for each subscriber
H04M 5/12	1-Punkt Untergruppe	. Ringing or otherwise calling substations
H04M 5/14	1-Punkt Untergruppe	. Applications of speech amplifiers
H04M 5/16	1-Punkt Untergruppe	. with means for reducing interference; with means for reducing effects due to line faults
H04M 5/18	1-Punkt Untergruppe	. Arrangements for signalling the class or number of called or calling line from one exchange to another
H04M 5/20	2-Punkt Untergruppe	. . Number-indicating arrangements for incoming lines
H04M 7/00	Hauptgruppe	Interconnection arrangements between switching centres (transmission arrangements in general H04B)
H04M 7/02	1-Punkt Untergruppe	. for compensating differences of ground potential
H04M 7/04	1-Punkt Untergruppe	. for compensating differences of line impedance

Symbol	Typ	Titel
H04M 7/06	1-Punkt Untergruppe	. using auxiliary connections for control or supervision
H04M 7/08	1-Punkt Untergruppe	. for phantom working
H04M 7/10	1-Punkt Untergruppe	. for two-way working, i.e. calls may be set-up in either direction over the same connection
H04M 7/12	1-Punkt Untergruppe	. for working between exchanges having different types of switching equipment, e.g. power-driven and step by step, decimal and non-decimal
H04M 7/14	1-Punkt Untergruppe	. in systems involving main and subordinate switching centres (current supply source at subordinate switching centre charged from main exchange H04M 19/06)
H04M 7/16	1-Punkt Untergruppe	. in systems employing carrier frequencies
H04M 9/00	Hauptgruppe	Interconnection arrangements not involving centralised switching
H04M 9/02	1-Punkt Untergruppe	. involving a common line for all parties
H04M 9/04	1-Punkt Untergruppe	. involving a separate line for each pair of parties
H04M 9/06	1-Punkt Untergruppe	. involving combinations of interconnecting lines
H04M 9/08	1-Punkt Untergruppe	. Two-way loud-speaking telephone systems with means for suppressing echoes or otherwise conditioning for one or other direction of traffic (for line transmission in general H04B 3/20)
H04M 9/10	2-Punkt Untergruppe	. . with switching of direction of transmission by voice frequency
H04M 11/00	Hauptgruppe	Telephonic communication systems adapted for combination with other electrical systems
H04M 11/02	1-Punkt Untergruppe	. with bell or annunciator systems (such systems in general G08)
H04M 11/04	1-Punkt Untergruppe	. with fire, police, burglar, or other alarm systems (such systems in general G08)
H04M 11/06	1-Punkt Untergruppe	. Simultaneous speech and telegraphic or other data transmission over the same conductors (transmission of digital information in general H04L)
H04M 11/08	1-Punkt Untergruppe	. adapted for optional reception of entertainment or informative matter (systems in which the information is continuously available on a carrier over the whole network H04H 1/08)
H04M 11/10	1-Punkt Untergruppe	. with dictation recording and playback systems (such systems in general G11B)
H04M 13/00	Hauptgruppe	Party-line systems (substation equipment H04M 1/00; exchange equipment H04M 3/00, H04M 5/00; metering arrangements H04M 15/36)
H04M 15/00	Hauptgruppe	Metering arrangements; Time-controlling arrangements; Time-indicating arrangements
H04M 15/02	1-Punkt Untergruppe	. Severing connection after predetermined time
H04M 15/04	1-Punkt Untergruppe	. Recording calls in printed, perforated, or other permanent form
H04M 15/06	2-Punkt Untergruppe	. . Recording class or number of calling or of called party
H04M 15/08	1-Punkt Untergruppe	. Metering calls to called party
H04M 15/10	1-Punkt Untergruppe	. Metering calls from calling party
H04M 15/12	2-Punkt Untergruppe	. . Discriminative metering
H04M 15/14	3-Punkt Untergruppe	. . . according to class of calling party
H04M 15/16	3-Punkt Untergruppe	. . . according to connection obtained
H04M 15/18	3-Punkt Untergruppe	. . . according to duration of call
H04M 15/20	4-Punkt Untergruppe	. . . . Operator's time recording or indicating arrangements

Symbol	Typ	Titel
H04M 15/22	3-Punkt Untergruppe	. . . according to time of day
H04M 15/24	3-Punkt Untergruppe	. . . preventing metering of tax-free calls to certain lines, e.g. to fire or ambulance stations
H04M 15/26	2-Punkt Untergruppe	. . Meter at exchange controlled by operator
H04M 15/28	1-Punkt Untergruppe	. with meter at substation
H04M 15/30	2-Punkt Untergruppe	. . Meter not controlled from exchange
H04M 15/32	1-Punkt Untergruppe	. Metering arrangements for satellites or concentrators which connect one or more exchange lines with a group of local lines
H04M 15/34	1-Punkt Untergruppe	. Metering arrangements for private branch exchanges
H04M 15/36	1-Punkt Untergruppe	. Metering arrangements for party-lines
H04M 15/38	1-Punkt Untergruppe	. Metering by apparatus not of the mechanical step-by-step counter type
H04M 17/00	Hauptgruppe	Prepayment telephone systems (using a coded card to authorise calls from a telephone set H04M 1/675) [1, 7]
H04M 17/02	1-Punkt Untergruppe	. Coin-freed or check-freed systems (coin-freed or check-freed apparatus in general G07F)
H04M 19/00	Hauptgruppe	Current supply arrangements for telephone systems (for selecting equipment H04Q 1/28)
H04M 19/02	1-Punkt Untergruppe	. providing ringing current or supervisory tones, e.g. dialling tone, busy tone
H04M 19/04	2-Punkt Untergruppe	. . Ringing-current generated at substation
H04M 19/06	1-Punkt Untergruppe	. Current supply source at subordinate switching centre charged from main exchange
H04M 19/08	1-Punkt Untergruppe	. Current supply source at substation (battery saving arrangements for cordless telephones H04M 1/73; generating ringing current H04M 19/04) [1, 7]
H04M 99/00	Hauptgruppe	Subject matter not provided for in other groups of this subclass [2006.01]