Symbol	Typ	Titel
H	**Sektion**	**SECTION H — ELECTRICITY**
H04	**Klasse**	**ELECTRIC COMMUNICATION TECHNIQUE**
H04N	**Unterklasse**	**PICTORIAL COMMUNICATION, e.g. TELEVISION (measuring, testing G01; systems for autographic writing, e.g. writing telegraphy, which involve following an outline G08; information storage based on relative movement between record carrier and transducer G11B; coding, decoding or code conversion, in general H03M; broadcast distribution or the recording of use made thereof H04H) [4]**
H04N 1/00	**Hauptgruppe**	**Scanning, transmission or reproduction of documents or the like, e.g. facsimile transmission; Details thereof [3, 4]**
H04N 1/024	1-Punkt Untergruppe	. Details of scanning heads [3, 4]
H04N 1/028	2-Punkt Untergruppe	. . for picture-information pick-up [3, 4]
H04N 1/029	3-Punkt Untergruppe	. . . Heads optically focused on only one picture element at a time [6]
H04N 1/03	3-Punkt Untergruppe	. . . with photodetectors arranged in a substantially linear array (scanning of linear arrays H04N 1/19) [6]
H04N 1/031	4-Punkt Untergruppe	. . . . the photodetectors having a one-to-one and optically positive correspondence with the scanned picture elements, e.g. linear contact sensors [6]
H04N 1/032	2-Punkt Untergruppe	. . for picture-information reproduction (engraving heads for the manufacture of printing formes B41C 1/02) [3, 4]
H04N 1/034	3-Punkt Untergruppe	. . . using ink, e.g. ink-jet heads [5]
H04N 1/036	3-Punkt Untergruppe	. . . for optical reproduction [3, 4]
H04N 1/04	1-Punkt Untergruppe	. Scanning arrangements (H04N 1/387 takes precedence) [4]
H04N 1/047	2-Punkt Untergruppe	. . Detection, control or error compensation of scanning velocity or position (H04N 1/17 takes precedence) [6]
H04N 1/053	3-Punkt Untergruppe	. . . in main scanning direction, e.g. synchronisation of line start or picture elements in a line [6]
H04N 1/06	2-Punkt Untergruppe	. . using cylindrical picture-bearing surfaces [4]
H04N 1/08	3-Punkt Untergruppe	. . . Mechanisms for mounting or holding the sheet around the drum [4]
H04N 1/10	2-Punkt Untergruppe	. . using flat picture-bearing surfaces [4]
H04N 1/107	3-Punkt Untergruppe	. . . with manual scanning [6]
H04N 1/113	2-Punkt Untergruppe	. . using oscillating or rotating mirrors [6]
H04N 1/12	2-Punkt Untergruppe	. . using the sheet-feed movement as the slow scanning component (using multi-element arrays H04N 1/19) [4, 6]
H04N 1/14	3-Punkt Untergruppe	. . . using a rotating endless belt carrying the scanning heads [4]
H04N 1/16	3-Punkt Untergruppe	. . . using a rotating helical element [4]
H04N 1/17	2-Punkt Untergruppe	. . the scanning speed being dependent on content of picture [3, 4]
H04N 1/19	2-Punkt Untergruppe	. . using multi-element arrays [6]
H04N 1/191	3-Punkt Untergruppe	. . . the array comprising a one-dimensional array [6]
H04N 1/192	4-Punkt Untergruppe	. . . . Simultaneously scanning picture elements on one main scanning line [6]
H04N 1/193	5-Punkt Untergruppe	. . . . . using electrically scanned linear arrays [6]

Symbol	Typ	Titel
H04N 1/195	3-Punkt Untergruppe	. . . the array comprising a two-dimensional array [6]
H04N 1/203	2-Punkt Untergruppe	. . Simultaneous scanning of two or more separate pictures [6]
H04N 1/207	2-Punkt Untergruppe	. . Simultaneous scanning of the original picture and the reproduced picture with a common scanning device [6]
H04N 1/21	1-Punkt Untergruppe	. Intermediate information storage (H04N 1/387, H04N 1/41 take precedence; information storage in general G11) [4]
H04N 1/23	1-Punkt Untergruppe	. Reproducing arrangements (details of scanning heads H04N 1/024; scanning arrangements therefor H04N 1/04) [4]
H04N 1/27	2-Punkt Untergruppe	. . involving production of a magnetic intermediate picture [4]
H04N 1/29	2-Punkt Untergruppe	. . involving production of an electrostatic intermediate picture [4]
H04N 1/31	2-Punkt Untergruppe	. . Mechanical arrangements for picture transmission, e.g. adaptation of clutches, gearing, gear transmissions [4]
H04N 1/32	1-Punkt Untergruppe	. Circuits or arrangements for control or supervision between transmitter and receiver
H04N 1/327	2-Punkt Untergruppe	. . Initiating, continuing or ending a single-mode communication; Handshaking therefor [6]
H04N 1/333	2-Punkt Untergruppe	. . Mode signalling or mode changing; Handshaking therefor [6]
H04N 1/34	2-Punkt Untergruppe	. . for coin-freed systems
H04N 1/36	2-Punkt Untergruppe	. . for synchronising or phasing transmitter and receiver
H04N 1/38	1-Punkt Untergruppe	. Circuits or arrangements for blanking or otherwise eliminating unwanted parts of pictures (H04N 1/387 takes precedence) [4]
H04N 1/387	1-Punkt Untergruppe	. Composing, repositioning or otherwise modifying originals (photoelectronic composing of characters B41B 19/00) [4]
H04N 1/393	2-Punkt Untergruppe	. . Enlarging or reducing [4]
H04N 1/40	1-Punkt Untergruppe	. Picture signal circuits (H04N 1/387 takes precedence) [4]
H04N 1/401	2-Punkt Untergruppe	. . Compensating positionaly unequal response of the pick-up or reproducing head (H04N 1/403 takes precedence) [6]
H04N 1/403	2-Punkt Untergruppe	. . Discrimination between the two tones in the picture signal of a two-tone original (shaping pulses by limiting or thresholding, in general H03K 5/08) [6]
H04N 1/405	2-Punkt Untergruppe	. . Halftoning, i.e. converting the picture signal of a continuous-tone original into a corresponding signal showing only two levels [6]
H04N 1/407	2-Punkt Untergruppe	. . Control or modification of tonal gradation or of extreme levels, e.g. background level [6]
H04N 1/409	2-Punkt Untergruppe	. . Edge or detail enhancement; Noise or error suppression [6]
H04N 1/41	1-Punkt Untergruppe	. Bandwidth or redundancy reduction (by scanning H04N 1/17) [3]
H04N 1/411	2-Punkt Untergruppe	. . for the transmission or reproduction of two-tone pictures, e.g. black and white pictures [4]
H04N 1/413	3-Punkt Untergruppe	. . . Systems or arrangements allowing the picture to be reproduced without loss or modification of picture-information [4]
H04N 1/415	4-Punkt Untergruppe	. . . . in which the picture-elements are subdivided or grouped into fixed one-dimensional or two-dimensional blocks [4]
H04N 1/417	4-Punkt Untergruppe	. . . . using predictive or differential encoding [4]

Symbol	Typ	Titel
H04N 1/419	4-Punkt Untergruppe	. . . . in which encoding of the length of a succession of picture-elements of the same value along a scanning line is the only encoding step [4]
H04N 1/42	1-Punkt Untergruppe	. Systems for two-way working
H04N 1/44	1-Punkt Untergruppe	. Secrecy systems
H04N 1/46	1-Punkt Untergruppe	. Colour picture communication systems
H04N 1/48	2-Punkt Untergruppe	. . Picture signal generators (for halftone screening H04N 1/52) [6]
H04N 1/50	2-Punkt Untergruppe	. . Picture reproducers (for halftone screening H04N 1/52) [6]
H04N 1/52	2-Punkt Untergruppe	. . Circuits or arrangements for halftone screening [6]
H04N 1/54	2-Punkt Untergruppe	. . Conversion of colour picture signals to a plurality of signals some of which represent particular mixed colours, e.g. for textile printing [6]
H04N 1/56	2-Punkt Untergruppe	. . Processing of colour picture signals (H04N 1/52 takes precedence) [6]
H04N 1/58	3-Punkt Untergruppe	. . . Edge or detail enhancement; Noise or error suppression, e.g. colour misregistration correction (H04N 1/62 takes precedence) [6]
H04N 1/60	3-Punkt Untergruppe	. . . Colour correction or control [6]
H04N 1/62	4-Punkt Untergruppe	. . . . Retouching, i.e. modification of isolated colours only or in isolated picture areas only [6]
H04N 1/64	2-Punkt Untergruppe	. . Systems for the transmission or the storage of the colour picture signal; Details therefor, e.g. coding or decoding means therefor [6]
H04N 3/00	**Hauptgruppe**	**Scanning details of television systems; Combination thereof with generation of supply voltages [4]**
H04N 3/02	1-Punkt Untergruppe	. by optical-mechanical means only (H04N 3/36 takes precedence; optical scanning systems in general G02B 26/10) [2]
H04N 3/04	2-Punkt Untergruppe	. . having a moving aperture
H04N 3/06	2-Punkt Untergruppe	. . having a moving lens or other refractor
H04N 3/08	2-Punkt Untergruppe	. . having a moving reflector
H04N 3/09	3-Punkt Untergruppe	. . . for electromagnetic radiation in the invisible region, e.g. infra-red [4]
H04N 3/10	1-Punkt Untergruppe	. by means not exclusively optical-mechanical (H04N 3/36 takes precedence; devices or arrangements for the electro-, magneto- or acousto-optical modulation or deflection of light beams G02F) [2]
H04N 3/12	2-Punkt Untergruppe	. . by switched stationary formation of lamps, photocells, or light relays
H04N 3/14	2-Punkt Untergruppe	. . by means of electrically scanned solid-state devices
H04N 3/15	3-Punkt Untergruppe	. . . for picture signal generation [3]
H04N 3/16	2-Punkt Untergruppe	. . by deflecting electron beam in cathode-ray tube (producing sawtooth waveforms H03K 4/00)
H04N 3/18	3-Punkt Untergruppe	. . . Generation of supply voltages, in combination with electron beam deflecting [4]
H04N 3/185	4-Punkt Untergruppe	. . . . Maintaining dc voltage constant (regulation of dc voltage in general G05F) [4]
H04N 3/19	4-Punkt Untergruppe	. . . . Arrangements or assemblies in supply circuits for the purpose of withstanding high voltages [3]
H04N 3/20	3-Punkt Untergruppe	. . . Prevention of damage to cathode-ray tubes in event of failure of scanning
H04N 3/22	3-Punkt Untergruppe	. . . Circuits for controlling dimensions, shape or centering of picture on screen

Symbol	Typ	Titel
H04N 3/223	4-Punkt Untergruppe	. . . . Controlling dimensions (by maintaining the cathode-ray tube high voltage constant H04N 3/185) [4]
H04N 3/227	4-Punkt Untergruppe	. . . . Centering [4]
H04N 3/23	4-Punkt Untergruppe	. . . . Distortion correction, e.g. for pincushion distortion correction, S-correction [4]
H04N 3/233	5-Punkt Untergruppe	. . . . . using active elements [4]
H04N 3/237	5-Punkt Untergruppe	. . . . . using passive elements [4]
H04N 3/24	3-Punkt Untergruppe	. . . Blanking circuits
H04N 3/26	3-Punkt Untergruppe	. . . Modifications of scanning arrangements to improve focusing (focusing circuits in general H01J)
H04N 3/27	3-Punkt Untergruppe	. . . Circuits special to multi-standard receivers (circuitry of multi-standard receivers in general H04N 5/46) [3, 4]
H04N 3/28	2-Punkt Untergruppe	. . producing multiple scanning, i.e. using more than one spot at the same time
H04N 3/30	2-Punkt Untergruppe	. . otherwise than with constant velocity or otherwise than in pattern formed by unidirectional, straight, substantially horizontal or vertical lines
H04N 3/32	3-Punkt Untergruppe	. . . Velocity varied in dependence upon picture information
H04N 3/34	3-Punkt Untergruppe	. . . Elemental scanning area oscillated rapidly in direction transverse to main scanning direction
H04N 3/36	1-Punkt Untergruppe	. Scanning of motion picture films, e.g. for telecine [2]
H04N 3/38	2-Punkt Untergruppe	. . with continuously moving film [4]
H04N 3/40	2-Punkt Untergruppe	. . with intermittently moving film [4]
H04N 5/00	**Hauptgruppe**	**Details of television systems (scanning details or combination thereof with generation of supply voltages H04N 3/00; specially adapted for colour television H04N 9/00) [4]**
H04N 5/04	1-Punkt Untergruppe	. Synchronising (for television systems using pulse code modulation H04N 7/24; in general H03L 7/00) [4]
H04N 5/05	2-Punkt Untergruppe	. . Synchronising circuits with arrangements for extending range of synchronisation, e.g. by using switching between several time constants [2]
H04N 5/06	2-Punkt Untergruppe	. . Generation of synchronising signals
H04N 5/067	3-Punkt Untergruppe	. . . Arrangements or circuits at the transmitter end [4]
H04N 5/073	4-Punkt Untergruppe	. . . . for mutually locking plural sources of synchronising signals, e.g. studios or relay stations [4]
H04N 5/08	2-Punkt Untergruppe	. . Separation of synchronising signals from picture signals
H04N 5/10	3-Punkt Untergruppe	. . . Separation of line synchronising signal from frame synchronising signal
H04N 5/12	2-Punkt Untergruppe	. . Devices in which the synchronising signals are only operative if a phase difference occurs between synchronising and synchronised scanning devices, e.g. flywheel synchronising [2]
H04N 5/14	1-Punkt Untergruppe	. Picture signal circuitry for video frequency region (H04N 5/222 takes precedence) [2]
H04N 5/16	2-Punkt Untergruppe	. . Circuitry for reinsertion of dc and slowly varying components of signal; Circuitry for preservation of black or white level
H04N 5/18	3-Punkt Untergruppe	. . . by means of "clamp" circuit operated by switching circuit
H04N 5/20	2-Punkt Untergruppe	. . Circuitry for controlling amplitude response
H04N 5/202	3-Punkt Untergruppe	. . . Gamma control [4]

Symbol	Typ	Titel
H04N 5/205	3-Punkt Untergruppe	. . . for correcting amplitude versus frequency characteristic [4]
H04N 5/208	4-Punkt Untergruppe	. . . . for compensating for attenuation of high frequency components, e.g. crispening, aperture distortion correction [4]
H04N 5/21	2-Punkt Untergruppe	. . Circuitry for suppressing or minimising disturbance, e.g. moire, halo (suppression of noise in television recording H04N 5/911)
H04N 5/213	3-Punkt Untergruppe	. . . Circuitry for suppressing or minimising impulsive noise (H04N 5/217 takes precedence) [4]
H04N 5/217	3-Punkt Untergruppe	. . . in picture signal generation [4]
H04N 5/222	1-Punkt Untergruppe	. Studio circuitry; Studio devices; Studio equipment [4]
H04N 5/225	2-Punkt Untergruppe	. . Television cameras [4]
H04N 5/228	3-Punkt Untergruppe	. . . Circuit details for pick-up tubes [4]
H04N 5/232	3-Punkt Untergruppe	. . . Devices for controlling television cameras, e.g. remote control (H04N 5/235 takes precedence; control of exposure in cameras by setting shutters, diaphragms or filters separately or conjointly G03B 7/00; focusing for cameras G03B 13/00; varying magnification for cameras G03B 17/00) [4]
H04N 5/235	3-Punkt Untergruppe	. . . Circuitry for compensating for variation in the brightness of the object [4]
H04N 5/238	4-Punkt Untergruppe	. . . . by influencing optical part of the camera [4]
H04N 5/243	4-Punkt Untergruppe	. . . . by influencing the picture signal [4]
H04N 5/247	3-Punkt Untergruppe	. . . Arrangement of television cameras [4]
H04N 5/253	2-Punkt Untergruppe	. . Picture signal generating by scanning motion picture films or slide opaques, e.g. for telecine (scanning details therefor H04N 3/36) [4]
H04N 5/257	2-Punkt Untergruppe	. . Picture signal generators using flying-spot scanners (H04N 5/253 takes precedence) [4]
H04N 5/262	2-Punkt Untergruppe	. . Studio circuits, e.g. for mixing, switching-over, change of character of image, other special effects [4]
H04N 5/265	3-Punkt Untergruppe	. . . Mixing [4]
H04N 5/268	3-Punkt Untergruppe	. . . Signal distribution or switching (for broadcasting H04H 1/00) [4]
H04N 5/272	3-Punkt Untergruppe	. . . Means for inserting a foreground image in a background image, i.e. inlay, outlay [4]
H04N 5/275	4-Punkt Untergruppe	. . . . Generation of keying signals [4]
H04N 5/278	3-Punkt Untergruppe	. . . Subtitling [4]
H04N 5/28	2-Punkt Untergruppe	. . Mobile studios
H04N 5/30	1-Punkt Untergruppe	. Transforming light or analogous information into electric information (H04N 5/222 takes precedence; scanning details H04N 3/00; transforming acoustic waves into electric information G01S 7/52, G01S 15/89; light transforming elements H01J, H01L) [2, 4, 7]
H04N 5/32	2-Punkt Untergruppe	. . Transforming X-rays
H04N 5/321	3-Punkt Untergruppe	. . . with video transmission of fluoroscopic images [5]
H04N 5/325	4-Punkt Untergruppe	. . . . Image enhancement, e.g. by subtraction techniques using polyenergetic X-rays [5]
H04N 5/33	2-Punkt Untergruppe	. . Transforming infra-red radiation [2]
H04N 5/335	2-Punkt Untergruppe	. . using electrically scanned solid-state devices (H04N 5/32, H04N 5/33 take precedence) [4]

Symbol	Typ	Titel
H04N 5/38	1-Punkt Untergruppe	. Transmitter circuitry (H04N 5/14 takes precedence) [4]
H04N 5/40	2-Punkt Untergruppe	. . Modulation circuits
H04N 5/42	2-Punkt Untergruppe	. . for transmitting at will black-and-white or colour signals
H04N 5/44	1-Punkt Untergruppe	. Receiver circuitry (H04N 5/14 takes precedence) [4]
H04N 5/445	2-Punkt Untergruppe	. . for displaying additional information (H04N 5/50 takes precedence) [4]
H04N 5/45	3-Punkt Untergruppe	. . . Picture in picture [4]
H04N 5/455	2-Punkt Untergruppe	. . Demodulation-circuits (demodulation in general H03D) [4]
H04N 5/46	2-Punkt Untergruppe	. . for receiving on more than one standard at will (deflecting circuits of multi-standard receivers H04N 3/27) [4]
H04N 5/50	2-Punkt Untergruppe	. . Tuning indicators; Automatic tuning control (tuning control in general H03J) [4]
H04N 5/52	2-Punkt Untergruppe	. . Automatic gain control [4]
H04N 5/53	3-Punkt Untergruppe	. . . Keyed automatic gain control [4]
H04N 5/54	3-Punkt Untergruppe	. . . for positively-modulated picture signals (H04N 5/53 takes precedence) [4]
H04N 5/56	3-Punkt Untergruppe	. . . for negatively-modulated picture signals (H04N 5/53 takes precedence) [4]
H04N 5/57	2-Punkt Untergruppe	. . Control of contrast or brightness [4]
H04N 5/58	3-Punkt Untergruppe	. . . in dependence upon ambient light [4]
H04N 5/59	3-Punkt Untergruppe	. . . in dependence upon beam current of cathode ray tube [4]
H04N 5/60	2-Punkt Untergruppe	. . for the sound signals
H04N 5/62	3-Punkt Untergruppe	. . . Intercarrier circuits, i.e. heterodyning sound and vision carriers
H04N 5/63	1-Punkt Untergruppe	. Generation or supply of power specially adapted for television receivers (generation of supply voltages in combination with electron beam deflecting H04N 3/18; regulating of voltage or current in general G05F; transformers H01F; supplying or distributing electric power, in general H02J; static converters H02M) [4]
H04N 5/64	1-Punkt Untergruppe	. Constructional details of receivers, e.g. cabinets, dust covers (furniture aspects A47B, e.g. A47B 81/06) [2]
H04N 5/645	2-Punkt Untergruppe	. . Mounting of picture tube on chassis or in housing
H04N 5/65	2-Punkt Untergruppe	. . Holding-devices for protective discs or for picture masks
H04N 5/655	2-Punkt Untergruppe	. . Construction or mounting of chassis, e.g. for varying the elevation of the tube
H04N 5/66	1-Punkt Untergruppe	. Transforming electric information into light information (scanning details H04N 3/00)
H04N 5/68	2-Punkt Untergruppe	. . Circuit details for cathode-ray display tubes
H04N 5/70	2-Punkt Untergruppe	. . Circuit details for electroluminescent devices
H04N 5/72	1-Punkt Untergruppe	. Modifying the appearance of television pictures by optical filters or diffusing screens (optical filters or diffusing screens per seG02B 5/00)
H04N 5/74	1-Punkt Untergruppe	. Projection arrangements for image reproduction, e.g. using eidophor (optical systems in general G02B)
H04N 5/76	1-Punkt Untergruppe	. Television signal recording (diagnosis, testing or measuring of television signal recorders H04N 17/06; recording in connection with measuring G01D; information storage in general G11, e.g. G11B) [3, 4]

Symbol	Typ	Titel
H04N 5/761	2-Punkt Untergruppe	. . Systems for programming the time at which predetermined television channels will be selected for recording [7]
H04N 5/7613	3-Punkt Untergruppe	. . . by using data entered by the user and a reference timing clock incorporated in the recorder [7]
H04N 5/7617	3-Punkt Untergruppe	. . . by using data entered by the user and reference data transmitted by the broadcasting station [7]
H04N 5/765	2-Punkt Untergruppe	. . Interface circuits between an apparatus for recording and another apparatus (associated working of recording or reproducing apparatus with a television camera or receiver in which the television signal is not significantly involved G11B 31/00) [6]
H04N 5/77	3-Punkt Untergruppe	. . . between a recording apparatus and a television camera [6]
H04N 5/775	3-Punkt Untergruppe	. . . between a recording apparatus and a television receiver [6]
H04N 5/78	2-Punkt Untergruppe	. . using magnetic recording (H04N 5/91 takes precedence) [3]
H04N 5/781	3-Punkt Untergruppe	. . . on discs or drums [3]
H04N 5/782	3-Punkt Untergruppe	. . . on tape [3]
H04N 5/7822	4-Punkt Untergruppe	. . . . with stationary magnetic heads [6]
H04N 5/7824	4-Punkt Untergruppe	. . . . with rotating magnetic heads [6]
H04N 5/7826	5-Punkt Untergruppe	. . . . . involving helical scanning of the magnetic tape [6]
H04N 5/7828	5-Punkt Untergruppe	. . . . . involving transversal scanning of the magnetic tape [6]
H04N 5/783	4-Punkt Untergruppe	. . . . Adaptations for reproducing at a rate different from the recording rate [3]
H04N 5/784	3-Punkt Untergruppe	. . . on a sheet [6]
H04N 5/80	2-Punkt Untergruppe	. . using electrostatic recording (H04N 5/91 takes precedence) [3]
H04N 5/82	3-Punkt Untergruppe	. . . using deformable thermoplastic recording medium
H04N 5/83	4-Punkt Untergruppe	. . . . on discs or drums [3]
H04N 5/84	2-Punkt Untergruppe	. . using optical recording (H04N 5/80, H04N 5/89, H04N 5/91 take precedence) [3, 4]
H04N 5/85	3-Punkt Untergruppe	. . . on discs or drums [3]
H04N 5/87	3-Punkt Untergruppe	. . . Producing a motion picture film from a television signal (scanning of motion picture films for television signal generation H04N 3/36; television signal generation by scanning a motion picture film H04N 5/253, H04N 9/11) [3, 4]
H04N 5/89	2-Punkt Untergruppe	. . using holographic recording (H04N 5/91 take precedence) [3]
H04N 5/90	3-Punkt Untergruppe	. . . on discs or drums [3]
H04N 5/903	2-Punkt Untergruppe	. . using variable electrical capacitive recording (H04N 5/91 takes precedence) [4]
H04N 5/907	2-Punkt Untergruppe	. . using static stores, e.g. storage tubes, semiconductor memories (H04N 5/91 takes precedence; based on relative movement between record carrier and transducer H04N 5/78-H04N 5/903) [4]
H04N 5/91	2-Punkt Untergruppe	. . Television signal processing therefor (of colour signals H04N 9/79) [3]
H04N 5/911	3-Punkt Untergruppe	. . . for the suppression of noise [6]
H04N 5/913	3-Punkt Untergruppe	. . . for scrambling (scrambling of a television signal for transmission H04N 7/167) [6]
H04N 5/915	3-Punkt Untergruppe	. . . for field- or frame-skip recording or reproducing [6]

Symbol	Typ	Titel
H04N 5/917	3-Punkt Untergruppe	. . . for bandwidth reduction (bandwidth reduction H04N 7/12; using pulse code modulation H04N 7/24) [6]
H04N 5/919	4-Punkt Untergruppe	. . . . by dividing samples or signal segments, e.g. television lines, among a plurality of recording channels [6]
H04N 5/92	3-Punkt Untergruppe	. . . Transformation of the television signal for recording, e.g. modulation, frequency changing; Inverse transformation for playback [3]
H04N 5/921	4-Punkt Untergruppe	. . . . by recording or reproducing the baseband signal [6]
H04N 5/922	4-Punkt Untergruppe	. . . . by modulation of the signal on a carrier wave, e.g. amplitude or frequency modulation [6]
H04N 5/923	4-Punkt Untergruppe	. . . . using preemphasis of the signal before modulation and deemphasis of the signal after demodulation [6]
H04N 5/924	4-Punkt Untergruppe	. . . . using duty cycle modulation [6]
H04N 5/926	4-Punkt Untergruppe	. . . . by pulse code modulation (H04N 5/919 takes precedence) [6]
H04N 5/928	4-Punkt Untergruppe	. . . . the sound signal being pulse code modulated and recorded in time division multiplex with the modulated video signal [6]
H04N 5/93	3-Punkt Untergruppe	. . . Regeneration of the television signal or of selected parts thereof [3]
H04N 5/931	4-Punkt Untergruppe	. . . . for restoring the level of the reproduced signal [6]
H04N 5/932	4-Punkt Untergruppe	. . . . Regeneration of analogue synchronisation signals [6]
H04N 5/935	4-Punkt Untergruppe	. . . . Regeneration of digital synchronisation signals [6]
H04N 5/937	4-Punkt Untergruppe	. . . . by assembling picture element blocks in an intermediate store [6]
H04N 5/94	4-Punkt Untergruppe	. . . . Signal drop-out compensation [3]
H04N 5/945	5-Punkt Untergruppe	. . . . . for signals recorded by pulse code modulation (error detection or correction of digital signals for recording in general G11B 20/18) [6]
H04N 5/95	4-Punkt Untergruppe	. . . . Time-base error compensation [3]
H04N 5/953	5-Punkt Untergruppe	. . . . . by using an analogue memory, e.g. a CCD-shift register, the delay of which is controlled by a voltage controlled oscillator [6]
H04N 5/956	5-Punkt Untergruppe	. . . . . by using a digital memory with independent write-in and read-out clock generators [6]
H04N 7/00	**Hauptgruppe**	**Television systems (details H04N 3/00, H04N 5/00; specially adapted for colour television H04N 11/00; stereoscopic television systems H04N 13/00) [4]**
H04N 7/01	1-Punkt Untergruppe	. Conversion of standards [4]
H04N 7/015	1-Punkt Untergruppe	. High-definition television systems [6]
H04N 7/025	1-Punkt Untergruppe	. Systems for transmission of digital non-picture data, e.g. of text during the active part of a television frame [6]
H04N 7/03	2-Punkt Untergruppe	. . Subscription systems therefor [6]
H04N 7/035	2-Punkt Untergruppe	. . Circuits for the digital non-picture data signal, e.g. for slicing of the data signal, for regeneration of the data-clock signal, for error detection or correction of the data signal [6]
H04N 7/04	1-Punkt Untergruppe	. Systems for the transmission of one television signal, i.e. both picture and sound, by a single carrier [4]
H04N 7/045	2-Punkt Untergruppe	. . the carrier being frequency modulated [6]
H04N 7/06	1-Punkt Untergruppe	. Systems for the simultaneous transmission of one television signal, i.e. both picture and sound, by more than one carrier [4]

Symbol	Typ	Titel
H04N 7/08	1-Punkt Untergruppe	. Systems for the simultaneous or sequential transmission of more than one television signal, e.g. additional information signals, the signals occupying wholly or partially the same frequency band [4, 6]
H04N 7/081	2-Punkt Untergruppe	. . the additional information signals being transmitted by means of a subcarrier [6]
H04N 7/083	2-Punkt Untergruppe	. . with signal insertion during the vertical and the horizontal blanking interval [6]
H04N 7/084	2-Punkt Untergruppe	. . with signal insertion during the horizontal blanking interval [6]
H04N 7/085	3-Punkt Untergruppe	. . . the inserted signal being digital [6]
H04N 7/087	2-Punkt Untergruppe	. . with signal insertion during the vertical blanking interval [4]
H04N 7/088	3-Punkt Untergruppe	. . . the inserted signal being digital [6]
H04N 7/10	1-Punkt Untergruppe	. Adaptations for transmission by electrical cable (H04N 7/12 takes precedence) [4]
H04N 7/12	1-Punkt Untergruppe	. Systems in which the television signal is transmitted via one channel or a plurality of parallel channels, the bandwidth of each channel being less than the bandwidth of the television signal (H04N 7/24 takes precedence; high-definition television systems H04N 7/015) [4]
H04N 7/14	1-Punkt Untergruppe	. Systems for two-way working (H04N 7/173 takes precedence) [4]
H04N 7/15	2-Punkt Untergruppe	. . Conference systems (telephonic conference arrangements H04M 3/56) [5]
H04N 7/16	1-Punkt Untergruppe	. Secrecy systems; Subscription systems
H04N 7/167	2-Punkt Untergruppe	. . Systems rendering the television signal unintelligible and subsequently intelligible [4]
H04N 7/169	3-Punkt Untergruppe	. . . Systems operating in the time domain of the television signal [6]
H04N 7/171	3-Punkt Untergruppe	. . . Systems operating in the amplitude domain of the television signal [6]
H04N 7/173	2-Punkt Untergruppe	. . with two-way working, e.g. subscriber sending a programme selection signal [4]
H04N 7/18	1-Punkt Untergruppe	. Closed-circuit television systems, i.e. systems in which the signal is not broadcast
H04N 7/20	1-Punkt Untergruppe	. Adaptations for transmission via a GHz frequency band, e.g. via satellite [4]
H04N 7/22	1-Punkt Untergruppe	. Adaptations for optical transmission [4]
H04N 7/24	1-Punkt Untergruppe	. Systems for the transmission of television signals using pulse code modulation [6]
H04N 7/26	2-Punkt Untergruppe	. . using bandwidth reduction (information reduction by code conversion in general H03M 7/30) [6]
H04N 7/28	3-Punkt Untergruppe	. . . using vector coding [6]
H04N 7/30	3-Punkt Untergruppe	. . . involving transform coding (H04N 7/50 takes precedence; digital computers for performing complex mathematical operations, e.g. domain transformation, G06F 17/14) [6]
H04N 7/32	3-Punkt Untergruppe	. . . involving predictive coding (H04N 7/48, H04N 7/50 take precedence) [6]
H04N 7/34	4-Punkt Untergruppe	. . . . using spatial prediction [6]
H04N 7/36	4-Punkt Untergruppe	. . . . using temporal prediction [6]
H04N 7/38	4-Punkt Untergruppe	. . . . involving delta modulation (systems using differential pulse code modulation in general H04B 14/06) [6]
H04N 7/40	5-Punkt Untergruppe	. . . . . adaptive [6]
H04N 7/42	4-Punkt Untergruppe	. . . . involving differential modulation (systems using differential pulse code modulation in general H04B 14/06) [6]

Symbol	Typ	Titel
H04N 7/44	5-Punkt Untergruppe	. . . . . adaptive [6]
H04N 7/46	4-Punkt Untergruppe	. . . . using subsampling at the coder and sample restitution by interpolation at the coder or decoder [6]
H04N 7/48	3-Punkt Untergruppe	. . . involving pulse code modulation and predictive coding [6]
H04N 7/50	3-Punkt Untergruppe	. . . involving transform and predictive coding [6]
H04N 7/52	2-Punkt Untergruppe	. . Systems for transmission of a pulse code modulated video signal with one or more other pulse code modulated signals, e.g. an audio signal, a synchronising signal [6]
H04N 7/54	3-Punkt Untergruppe	. . . the signals being synchronous [6]
H04N 7/56	4-Punkt Untergruppe	. . . . Synchronising systems therefor [6]
H04N 7/58	3-Punkt Untergruppe	. . . involving more than one video signal [6]
H04N 7/60	3-Punkt Untergruppe	. . . the signals being asynchronous [6]
H04N 7/62	4-Punkt Untergruppe	. . . . Synchronising systems therefor [6]
H04N 7/64	2-Punkt Untergruppe	. . Systems for detection or correction of transmission errors (coding, decoding or code conversion for error detection or error correction in general H03M 13/00) [6]
H04N 7/66	3-Punkt Untergruppe	. . . using redundant codes [6]
H04N 7/68	3-Punkt Untergruppe	. . . using error concealment [6]
H04N 9/00	**Hauptgruppe**	**Details of colour television systems [4]**
H04N 9/04	1-Punkt Untergruppe	. Picture signal generators [4]
H04N 9/07	2-Punkt Untergruppe	. . with one pick-up device only [2, 4]
H04N 9/077	3-Punkt Untergruppe	. . . whereby the colour signals are characterised by their phase [4]
H04N 9/083	3-Punkt Untergruppe	. . . whereby the colour signals are characterised by their frequency [4]
H04N 9/09	2-Punkt Untergruppe	. . with more than one pick-up device [4]
H04N 9/093	3-Punkt Untergruppe	. . . Systems for avoiding or correcting misregistration of video signals [4]
H04N 9/097	3-Punkt Untergruppe	. . . Optical arrangements associated therewith, e.g. for beam-splitting, for colour correction (beam-splitting in general G02B 27/10) [4]
H04N 9/10	2-Punkt Untergruppe	. . using optical-mechanical scanning means only (H04N 9/11 takes precedence; optical scanning systems in general G02B 26/10) [2, 4]
H04N 9/11	2-Punkt Untergruppe	. . Scanning of colour motion picture films, e.g. for telecine [2, 4]
H04N 9/12	1-Punkt Untergruppe	. Picture reproducers (H04N 9/11 takes precedence; devices or arrangements for the electro-, magneto- or acousto-optical modulation or deflection of light beams G02F) [2, 4]
H04N 9/14	2-Punkt Untergruppe	. . using optical-mechanical scanning means only (optical scanning systems in general G02B 26/10) [2, 4]
H04N 9/16	2-Punkt Untergruppe	. . using cathode ray tubes (H04N 9/11 takes precedence; cathode-ray tubes H01J 31/00) [2, 4]
H04N 9/18	3-Punkt Untergruppe	. . . using separate electron beams for the primary colour signals (H04N 9/27 takes precedence) [2, 4]
H04N 9/20	4-Punkt Untergruppe	. . . . with more than one beam in a tube [4]
H04N 9/22	3-Punkt Untergruppe	. . . using the same beam for more than one primary colour information (H04N 9/27 takes precedence) [2, 4]

Symbol	Typ	Titel
H04N 9/24	4-Punkt Untergruppe	. . . . using means, integral with, or external to, the tube, for producing signal indicating instantaneous beam position [4]
H04N 9/26	4-Punkt Untergruppe	. . . . using electron-optical colour selection means, e.g. line grid, deflection means in or near the gun or near the phosphor screen [4]
H04N 9/27	3-Punkt Untergruppe	. . . with variable depth of penetration of electron beam into the luminescent layer, e.g. penetrons [2, 4]
H04N 9/28	3-Punkt Untergruppe	. . . Arrangements for convergence or focusing [4]
H04N 9/285	4-Punkt Untergruppe	. . . . using quadrupole lenses (quadrupole lenses per seG21K 1/08, H01J 3/14, H01J 29/58, H01J 37/10) [4]
H04N 9/29	3-Punkt Untergruppe	. . . using demagnetisation or compensation of external magnetic fields [2, 4]
H04N 9/30	2-Punkt Untergruppe	. . using solid-state colour display devices [4]
H04N 9/31	2-Punkt Untergruppe	. . Projection devices for colour picture display [2, 4]
H04N 9/43	1-Punkt Untergruppe	. Conversion of monochrome picture signals to colour picture signals for colour picture display [4]
H04N 9/44	1-Punkt Untergruppe	. Colour synchronisation [4]
H04N 9/45	2-Punkt Untergruppe	. . Generation or recovery of colour sub-carriers [4]
H04N 9/455	2-Punkt Untergruppe	. . Generation of colour burst signals; Insertion of colour burst signals in colour picture signals or separation of colour burst signals from colour picture signals (H04N 9/45 takes precedence) [4]
H04N 9/465	2-Punkt Untergruppe	. . Synchronisation of the PAL-switch [4]
H04N 9/47	2-Punkt Untergruppe	. . for sequential signals [2, 4]
H04N 9/475	2-Punkt Untergruppe	. . for mutually locking different synchronisation sources [4]
H04N 9/64	1-Punkt Untergruppe	. Circuits for processing colour signals (H04N 9/77 takes precedence) [4]
H04N 9/65	2-Punkt Untergruppe	. . for synchronous modulators [4]
H04N 9/66	2-Punkt Untergruppe	. . for synchronous demodulators [4]
H04N 9/67	2-Punkt Untergruppe	. . for matrixing [4]
H04N 9/68	2-Punkt Untergruppe	. . for controlling the amplitude of colour signals, e.g. automatic chroma control circuits (H04N 9/71, H04N 9/73 take precedence) [4]
H04N 9/69	3-Punkt Untergruppe	. . . for modifying the colour signals by gamma correction [4]
H04N 9/70	2-Punkt Untergruppe	. . for colour killing [4]
H04N 9/71	3-Punkt Untergruppe	. . . combined with colour gain control [4]
H04N 9/72	2-Punkt Untergruppe	. . for reinsertion of dc and slowly varying components of colour signals [4]
H04N 9/73	2-Punkt Untergruppe	. . colour balance circuits, e.g. white balance circuits, colour temperature control [4]
H04N 9/74	2-Punkt Untergruppe	. . for obtaining special effects (H04N 9/65-H04N 9/73 take precedence) [4]
H04N 9/75	3-Punkt Untergruppe	. . . Chroma key [4]
H04N 9/76	3-Punkt Untergruppe	. . . for mixing of colour signals (H04N 9/75 takes precedence) [4]
H04N 9/77	1-Punkt Untergruppe	. Circuits for processing the brightness signal and the chrominance signal relative to each other, e.g. adjusting the phase of the brightness signal relative to the colour signal, correcting differential gain or differential phase (circuits for matrixing H04N 9/67) [4]

Symbol	Typ	Titel
H04N 9/78	2-Punkt Untergruppe	. . for separating the brightness signal or the chrominance signal from the colour television signal, e.g. using comb filter [4]
H04N 9/79	1-Punkt Untergruppe	. Processing of colour television signals in connection with recording [4]
H04N 9/793	2-Punkt Untergruppe	. . for controlling the level of the chrominance signal, e.g. by means of automatic chroma control circuits [6]
H04N 9/797	2-Punkt Untergruppe	. . for recording the signal in a plurality of channels, the bandwidth of each channel being less than the bandwidth of the signal (H04N 9/804, H04N 9/81, H04N 9/82 take precedence) [6]
H04N 9/80	2-Punkt Untergruppe	. . Transformation of the television signal for recording, e.g. modulation, frequency changing; Inverse transformation for playback [4]
H04N 9/802	3-Punkt Untergruppe	. . . involving processing of the sound signal (H04N 9/806, H04N 9/835 take precedence) [6]
H04N 9/804	3-Punkt Untergruppe	. . . involving pulse code modulation of the colour picture signal components [6]
H04N 9/806	4-Punkt Untergruppe	. . . . with processing of the sound signal [6]
H04N 9/808	3-Punkt Untergruppe	. . . involving pulse code modulation of the composite colour video-signal [6]
H04N 9/81	3-Punkt Untergruppe	. . . the individual colour picture signal components being recorded sequentially only [4]
H04N 9/815	4-Punkt Untergruppe	. . . . the luminance signal and the sequential colour component signals being recorded in separate recording channels [6]
H04N 9/82	3-Punkt Untergruppe	. . . the individual colour picture signal components being recorded simultaneously only [4]
H04N 9/825	4-Punkt Untergruppe	. . . . the luminance and chrominance signals being recorded in separate channels [6]
H04N 9/83	4-Punkt Untergruppe	. . . . the recorded chrominance signal occupying a frequency band under the frequency band of the recorded brightness signal [4]
H04N 9/835	5-Punkt Untergruppe	. . . . . involving processing of the sound signal [6]
H04N 9/84	5-Punkt Untergruppe	. . . . . the recorded signal showing a feature, which is different in adjacent track parts, e.g. different phase or frequency [4]
H04N 9/85	4-Punkt Untergruppe	. . . . the recorded brightness signal occupying a frequency band totally overlapping the frequency band of the recorded chrominance signal, e.g. frequency interleaving [4]
H04N 9/86	3-Punkt Untergruppe	. . . the individual colour picture signal components being recorded sequentially and simultaneously, e.g. corresponding to SECAM-system [4]
H04N 9/87	2-Punkt Untergruppe	. . Regeneration of colour television signals (H04N 9/80 takes precedence) [4]
H04N 9/873	3-Punkt Untergruppe	. . . for restoring the colour component sequence of the reproduced signal [6]
H04N 9/877	3-Punkt Untergruppe	. . . by assembling picture element blocks in an intermediate memory [6]
H04N 9/88	3-Punkt Untergruppe	. . . Signal drop-out compensation [4]
H04N 9/882	4-Punkt Untergruppe	. . . . the signal being a composite colour television signal [6]
H04N 9/885	5-Punkt Untergruppe	. . . . . using a digital intermediate memory [6]
H04N 9/888	4-Punkt Untergruppe	. . . . for signals recorded by pulse code modulation (error detection or correction of digital signals for recording in general G11B 20/18) [6]
H04N 9/89	3-Punkt Untergruppe	. . . Time-base error compensation [4]
H04N 9/893	4-Punkt Untergruppe	. . . . using an analogue memory, e.g. a CCD-shift register, the delay of which is controlled by a voltage controlled oscillator [6]

Symbol	Typ	Titel
H04N 9/896	4-Punkt Untergruppe	. . . . using a digital memory with independent write-in and read-out clock generators [6]
H04N 9/898	3-Punkt Untergruppe	. . . using frequency multiplication of the reproduced colour signal with another auxiliary reproduced signal, e.g. a pilot signal carrier [6]
H04N 11/00	**Hauptgruppe**	**Colour television systems (details H04N 9/00; stereoscopic H04N 15/00) [4]**
H04N 11/02	1-Punkt Untergruppe	. with bandwidth reduction (H04N 11/04 takes precedence) [4]
H04N 11/04	1-Punkt Untergruppe	. using pulse code modulation [4]
H04N 11/06	1-Punkt Untergruppe	. Transmission systems characterised by the manner in which the individual colour picture signal components are combined [4]
H04N 11/08	2-Punkt Untergruppe	. . using sequential signals only (dot sequential systems H04N 11/12) [4]
H04N 11/10	3-Punkt Untergruppe	. . . in which colour signals are inserted in the blanking interval of brightness signal [4]
H04N 11/12	2-Punkt Untergruppe	. . using simultaneous signals only [4]
H04N 11/14	3-Punkt Untergruppe	. . . in which one signal, modulated in phase and amplitude, conveys colour information and a second signal conveys brightness information, e.g. NTSC-system [4]
H04N 11/16	4-Punkt Untergruppe	. . . . the chrominance signal alternating in phase, e.g. PAL-system [4]
H04N 11/18	2-Punkt Untergruppe	. . using simultaneous and sequential signals, e.g. SECAM-system [4]
H04N 11/20	2-Punkt Untergruppe	. . Conversion of the manner in which the individual colour picture signal components are combined, e.g. conversion of colour television standards [4]
H04N 11/22	3-Punkt Untergruppe	. . . in which simultaneous signals are converted into sequential signals or vice versa [4]
H04N 11/24	1-Punkt Untergruppe	. High-definition television systems [6]
H04N 13/00	**Hauptgruppe**	**Stereoscopic television systems; Details thereof (specially adapted for colour television H04N 15/00) [4]**
H04N 13/02	1-Punkt Untergruppe	. Picture signal generators [4]
H04N 13/04	1-Punkt Untergruppe	. Picture reproducers [4]
H04N 15/00	**Hauptgruppe**	**Stereoscopic colour television systems; Details thereof [4]**
H04N 17/00	**Hauptgruppe**	**Diagnosis, testing or measuring for television systems or their details [4]**
H04N 17/02	1-Punkt Untergruppe	. for colour television signals [4]
H04N 17/04	1-Punkt Untergruppe	. for receivers [4]
H04N 17/06	1-Punkt Untergruppe	. for recorders [4]
		Indexing scheme associated with groups H04N 1/00-H04N 17/00, relating to still video cameras. [6]
H04N 101/00	**Hauptgruppe**	**Still video cameras [6]**