

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 515

DATE: JANUARY 1, 2019

PROJECT RP0317

The following classification changes will be effected by this Notice of Changes:

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols Deleted:	H04N	11/002, 11/004, 11/006, 11/008
Symbols New:	H04N	11/24, 11/26, 11/28, 11/30
Titles Changed:	H04N	subclass
	H04N	1/00, 1/024, 1/0281, 1/03, 1/04, 1/06, 1/10, 1/192, 1/21, 1/23, 1/34, 1/387, 1/403, 1/46
	H04N	3/00, 3/02, 3/10, 3/16, 3/185, 3/26, 3/27
	H04N	5/00, 5/04, 5/21, 5/217, 5/268, 5/30, 5/351, 5/374, 5/40, 5/455, 5/50, 5/52, 5/63, 5/64, 5/66, 5/68, 5/72, 5/74, 5/76, 5/765, 5/87, 5/907, 5/91, 5/913, 5/917, 5/92, 5/945
	H04N	7/01, 7/10, 7/12, 7/15, 7/161, 7/167
	H04N	9/097, 9/10, 9/12, 9/14, 9/16, 9/285, 9/30, 9/31, 9/888
	H04N	11/02, 11/04
	H04N	21/00, 21/233, 21/234, 21/2347, 21/235, 21/236, 21/241, 21/242, 21/2543, 21/4147, 21/4185, 21/422, 21/431, 21/436, 21/4367, 21/4405, 21/4408, 21/441, 21/4415, 21/4425, 21/443, 21/454, 21/4545, 21/4623, 21/4627, 21/466, 21/47, 21/4782, 21/4784, 21/482, 21/60, 21/6334, 21/643
Warnings Modified:	H04N	subclass
Notes Deleted:	H04N	5/00
Notes Modified:	H04N	5/335
DEFINITIONS:		
Definitions New:	H04N	1/03, 1/06, 1/10, 1/23, 1/34, 1/403
	H04N	3/02, 3/10, 3/14, 3/16, 3/185, 3/223, 3/26, 3/27, 3/36
	H04N	5/04, 5/16, 5/20, 5/21, 5/217, 5/268, 5/351, 5/357, 5/369, 5/374, 5/376, 5/378, 5/38, 5/40, 5/44, 5/455, 5/46, 5/50, 5/52, 5/63, 5/64, 5/66, 5/68, 5/70, 5/72, 5/74, 5/765, 5/7822, 5/7824, 5/80, 5/84, 5/89, 5/903, 5/907, 5/91, 5/911, 5/919, 5/926, 5/928, 5/937, 5/945, 5/953, 5/956

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<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
	H04N	9/097, 9/10, 9/11, 9/14, 9/16, 9/28, 9/30, 9/68, 9/72, 9/797, 9/80, 9/804, 9/87, 9/877, 9/88, 9/888, 9/89, 9/893, 9/898
	H04N	11/02, 11/04, 11/08, 11/20, 11/24
Definitions Modified:	H04N	subclass
	H04N	1/00, 1/0281, 1/12, 1/192, 1/36, 1/387, 1/42, 1/44, 1/46, 1/48, 1/50
	H04N	3/00
	H04N	5/00, 5/222, 5/225, 5/235, 5/253, 5/28, 5/30, 5/32, 5/33, 5/335, 5/76, 5/775, 5/781, 5/782, 5/85, 5/917, 5/92, 5/93, 5/94, 5/95
	H04N	7/00, 7/01, 7/10, 7/12, 7/14, 7/15, 7/16, 7/161, 7/167, 7/173, 7/24, 7/56
	H04N	9/00, 9/12, 9/31, 9/44, 9/77, 9/79
	H04N	11/00
	H04N	17/00
	H04N	21/00, 21/222, 21/2318, 21/233, 21/234, 21/2347, 21/235, 21/241, 21/242, 21/2543, 21/4408, 21/4147, 21/4185, 21/422, 21/431, 21/4367, 21/4405, 21/441, 21/4415, 21/4425, 21/443, 21/454, 21/4545, 21/4627, 21/466, 21/47, 21/4782, 21/4784, 21/4786, 21/482, 21/60, 21/6334

No other subclasses/groups are impacted by this Notice of Changes.

This Notice of Changes includes the following [Check the ones included]:

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)
- D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)

3. REVISION CONCORDANCE LIST (RCL)

4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

5. CHANGES TO THE CROSS-REFERENCE LIST (CRL)

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 515

DATE: MAY 1, 2018

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS H04N - PICTORIAL COMMUNICATION, e.g. TELEVISION

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	H04N		PICTORIAL COMMUNICATION, e.g. TELEVISION	
M	H04N1/00	0	Scanning, transmission or reproduction of documents or the like, e.g. facsimile transmission; Details thereof	
M	H04N1/024	1	Details of scanning heads {; Means for illuminating the original}	
M	H04N1/0281	3	{ with means for collecting light from a line or an area of the original and for guiding it to only one or a relatively low number of picture element detectors }	
M	H04N1/03	3	with photodetectors arranged in a substantially linear array	
M	H04N1/04	1	Scanning arrangements {, i.e. arrangements for the displacement of active reading or reproducing elements relative to the original or reproducing medium, or <u>vice versa</u> } (H04N1/387 takes precedence)	
M	H04N1/06	2	using cylindrical picture-bearing surfaces {, i.e. scanning a main-scanning line substantially perpendicular to the axis and lying in a curved cylindrical surface}	
M	H04N1/10	2	using flat picture-bearing surfaces {(H04N1/113, H04N1/195 take precedence)}	
M	H04N1/192	4	Simultaneously {or substantially simultaneously} scanning picture elements on one main scanning line	
M	H04N1/21	1	Intermediate information storage (H04N 1/387, H04N 1/41 take precedence {; for control between transmitter and receiver or between image input and image output device H04N 1/32358; indexing, editing G11B 27/00})	
M	H04N1/23	1	Reproducing arrangements	

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	H04N 1/34	2	for coin-freed systems {; Pay systems}	
M	H04N1/387	1	Composing, repositioning or otherwise {geometrically} modifying originals	
M	H04N1/403	2	Discrimination between the two tones in the picture signal of a two-tone original	
M	H04N1/46	1	Colour picture communication systems	
M	H04N3/00	0	Scanning details of television systems; Combination thereof with generation of supply voltages	
M	H04N3/02	1	by optical-mechanical means only (H04N3/36 takes precedence)	
M	H04N3/10	1	by means not exclusively optical-mechanical (H04N 3/36 takes precedence)	
M	H04N3/16	2	by deflecting electron beam in cathode-ray tube {, e.g. scanning corrections}	
M	H04N3/185	4	Maintaining dc voltage constant	
M	H04N3/26	3	Modifications of scanning arrangements to improve focusing	
M	H04N3/27	3	Circuits special to multi-standard receivers	
M	H04N5/00		Details of television systems (scanning details or combination thereof with generation of supply voltages H04N 3/00)	
M	H04N5/04	1	Synchronising (for television systems using pulse code modulation H04N 7/56)	
M	H04N5/21	2	Circuitry for suppressing or minimising disturbance, e.g. moiré or halo	
M	H04N5/217	3	in picture signal generation {in cameras comprising an electronic image sensor, e.g. in digital cameras, TV cameras, video cameras, camcorders, webcams, or to be embedded in other devices, e.g. in mobile phones, computers or vehicles}	
M	H04N5/268	3	Signal distribution or switching	
M	H04N5/30	1	Transforming light or analogous information into electric information (H04N5/222 takes precedence; scanning details H04N3/00)	
M	H04N 5/351	3	Control of the SSIS depending on the scene, e.g. brightness or motion in the scene	
M	H04N 5/374	4	Addressed sensors, e.g. MOS or CMOS sensors	
M	H04N 5/40	2	Modulation circuits	
M	H04N5/455	2	Demodulation-circuits	
M	H04N5/50	2	Tuning indicators; Automatic tuning control	
M	H04N 5/52	2	Automatic gain control	

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M	H04N5/63	1	Generation or supply of power specially adapted for television receivers	
M	H04N5/64	1	Constructional details of receivers, e.g. cabinets or dust covers (furniture aspects {of television cabinets} A47B 81/06)	
M	H04N 5/66	1	Transforming electric information into light information (scanning details H04N3/00)	
M	H04N 5/68	2	Circuit details for cathode-ray display tubes {(deviation circuits H04N3/16)}	
M	H04N5/72	1	Modifying the appearance of television pictures by optical filters or diffusing screens	
M	H04N5/74	1	Projection arrangements for image reproduction, e.g. using eidophor	
M	H04N5/76	1	Television signal recording	
M	H04N5/765	2	Interface circuits between an apparatus for recording and another apparatus	
M	H04N5/87	3	Producing a motion picture film from a television signal {(standard conversion therefor H04N7/0112)}	
M	H04N5/907	2	using static stores, e.g. storage tubes or semiconductor memories (H04N 5/91 takes precedence)	
M	H04N5/91	2	Television signal processing therefor	
M	H04N5/913	3	for scrambling {; for copy protection}	
M	H04N5/917	3	for bandwidth reduction	
M	H04N 5/92	3	Transformation of the television signal for recording, e.g. modulation, frequency changing; Inverse transformation for playback	
M	H04N5/945	5	for signals recorded by pulse code modulation	
U	H04N7/00		Television systems (details H04N3/00, H04N5/00; methods or arrangements, for coding, decoding, compressing or decompressing digital video signals H04N19/00; selective content distribution H04N21/00)	
M	H04N 7/01	1	Conversion of standards {, e.g. involving analogue television standards or digital television standards processed at pixel level}	
M	H04N 7/10	1	Adaptations for transmission by electrical cable (H04N7/12 takes precedence)	

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M	H04N7/12	1	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)	
M	H04N7/15	2	Conference systems	
U	H04N7/16	1	Analogue secrecy systems; Analogue subscription systems	
M	H04N 7/161	2	{Constructional details of the subscriber equipment (H04N7/164 takes precedence)}	
M	H04N 7/167	2	Systems rendering the television signal unintelligible and subsequently intelligible	
M	H04N9/097	3	Optical arrangements associated therewith, e.g. for beam-splitting, for colour correction	
M	H04N9/10	2	using optical-mechanical scanning means only (H04N9/11 takes precedence)	
M	H04N9/12	1	Picture reproducers (H04N9/11 takes precedence)	
M	H04N9/14	2	using optical-mechanical scanning means only	
M	H04N9/16	2	using cathode ray tubes (H04N9/11 takes precedence)	
M	H04N9/285	4	using quadrupole lenses	
M	H04N 9/30	2	using solid-state colour display devices	
M	H04N 9/31	2	Projection devices for colour picture display {, e.g. using electronic spatial light modulators [ESLM]}	
M	H04N9/888	4	for signals recorded by pulse code modulation	
U	H04N11/00	0	Colour television systems (details H04N 9/00)	
D	H04N11/002	1	{High definition systems}	<administrative transfer to H04N11/24>
D	H04N11/004	2	{involving two-channel transmission}	<administrative transfer to H04N 11/26>
D	H04N11/006	2	{involving bandwidth reduction, e.g. subsampling}	<administrative transfer to H04N 11/28>
D	H04N11/008	2	{with transmission of the extra information by means of quadrature modulation}	<administrative transfer to H04N 11/30>
M	H04N 11/02	1	with bandwidth reduction (H04N11/04 {, H04N11/24} take precedence)	
M	H04N 11/04	1	using pulse code modulation {(H04N11/24 takes precedence)}	
U	H04N 11/22	3	in which simultaneous signals are converted into sequential signals or vice versa	
N	H04N11/24	1	High-definition television systems	
N	H04N11/26	2	{involving two-channel transmission}	

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N	H04N11/28	2	{involving bandwidth reduction, e.g. subsampling}	
N	H04N11/30	2	{with transmission of the extra information by means of quadrature modulation}	
M	H04N 21/00	0	Selective content distribution, e.g. interactive television or video on demand [VOD] (real-time bi-directional transmission of motion video data H04N 7/14 {; broadcast or conference over packet switching networks H04L 12/18})	
M	H04N 21/233	3	Processing of audio elementary streams {(monitoring, identification or recognition of audio in broadcast systems H04H60/58)}	
M	H04N 21/234	3	Processing of video elementary streams, e.g. splicing of video streams, manipulating MPEG-4 scene graphs	
M	H04N 21/2347	4	involving video stream encryption	
M	H04N 21/235	3	Processing of additional data, e.g. scrambling of additional data or processing content descriptors	
M	H04N 21/236	3	Assembling of a multiplex stream, e.g. transport stream, by combining a video stream with other content or additional data, e.g. inserting a URL [Uniform Resource Locator] into a video stream, multiplexing software data into a video stream; Remultiplexing of multiplex streams; Insertion of stuffing bits into the multiplex stream, e.g. to obtain a constant bit-rate; Assembling of a packetised elementary stream {(multiplexing of data packets for data networks, e.g. RTP/UDP H04L65/00)}	
M	H04N 21/241	3	Operating system [OS] processes, e.g. server setup	
M	H04N 21/242	3	Synchronization processes, e.g. processing of PCR [Program Clock References] {(arrangements for synchronising broadcast or distribution via plural systems in broadcast distribution systems H04H20/18)}	
M	H04N 21/2543	4	Billing {, e.g. for subscription services (payment schemes, architectures or protocols G06Q20/00; e-commerce G06Q30/00; arrangements for billing for the use of broadcast information or broadcast-related information H04H60/21)}	

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M	H04N 21/4147	4	PVR [Personal Video Recorder] (H04N5/76 takes precedence {; arrangements for broadcast with accumulation-type receivers H04H20/40})	
M	H04N 21/4185	4	for payment	
M	H04N 21/422	3	Input-only peripherals {, i.e. input devices connected to specially adapted client devices}, e.g. global positioning system [GPS] {(input devices also receiving signals from specially adapted client devices H04N 21/4104)}	
M	H04N 21/431	3	Generation of visual interfaces {for content selection or interaction}; Content or additional data rendering	
M	H04N 21/436	3	Interfacing a local distribution network, e.g. communicating with another STB or inside the home {; Interfacing an external card to be used in combination with the client device (arrangements specially adapted plural spots in a confined site in broadcast systems H04H20/63)}	
M	H04N 21/4367	4	Establishing a secure communication between the client and a peripheral device or smart card	
M	H04N 21/4405	4	involving video stream decryption	
M	H04N 21/4408	4	involving video stream encryption, e.g. re-encrypting a decrypted video stream for redistribution in a home network	
M	H04N 21/441	3	Acquiring end-user identification {, e.g. using personal code sent by the remote control or by inserting a card}	
M	H04N 21/4415	4	using biometric characteristics of the user, e.g. by voice recognition or fingerprint scanning {(authentication mechanisms using biometrical features for network security H04L29/06809)}	
M	H04N 21/4425	4	Monitoring of client processing errors or hardware failure	
M	H04N 21/443	3	OS processes, e.g. booting an STB, implementing a Java virtual machine in an STB or power management in an STB	
M	H04N 21/454	3	Content {or additional data} filtering , e.g. blocking advertisements	
M	H04N 21/4545	4	Input to filtering algorithms, e.g. filtering a region of the image	

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M	H04N 21/4623	4	Processing of entitlement messages, e.g. ECM [Entitlement Control Message] or EMM [Entitlement Management Message] {(arrangements for conditional access to broadcast information or to broadcast-related services H04H60/14)}	
M	H04N 21/4627	4	Rights management {associated to the content (security management or policies for network security H04L29/06986; security in data switching network management H04L41/28; access security in wireless networks H04W12/08)}	
M	H04N 21/466	3	Learning process for intelligent management, e.g. learning user preferences for recommending movies {(services using the results of monitoring in broadcast systems H04H60/61)}	
M	H04N 21/47	2	End-user applications {(services or applications for real-time multimedia communications H04L 29/06387)}	
M	H04N 21/4782	4	Web browsing {, e.g. WebTV}	
M	H04N 21/4784	4	receiving rewards	
M	H04N 21/482	3	End-user interface for program selection {(broadcast systems using EPGs H04H60/72)}	
U	H04N 21/488	3	Data services, e.g. news ticker {(systems specially adapted for using meteorological information in broadcast systems H04H60/71)}	
M	H04N 21/60	1	Network structure or processes for video distribution between server and client or between remote clients; Control signalling between clients, server and network components; Transmission of management data between server and client {, e.g. sending from server to client commands for recording incoming content stream}; Communication details between server and client	
U	H04N 21/6332	4	directed to client	
M	H04N 21/6334	5	for authorisation, e.g. by transmitting a key {(wireless communications network key management H04W 12/04; wireless communications network access security H04W 12/08)}	

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M	H04N 21/643	3	Communication protocols {(streaming protocols for real-time multimedia communications H04L29/06517)}	

*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; E= existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

NOTES:

- **No {curly brackets} are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- For U groups, the minimum requirement is to include the U group located immediately prior to the N group or N group array, in order to show the N group hierarchy and improve the readability and understanding of the scheme. Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types except “D” which requires only a symbol.
- #“Transferred to” column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.

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B. New, Modified or Deleted Warning notice(s)

SUBCLASS H04N - PICTORIAL COMMUNICATION, e.g. TELEVISION

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
M	H04N	<p>1. The following IPC groups are not in the CPC scheme. Subject matter for these IPC groups is classified in the following CPC groups:</p> <p>H04N5/761 covered by H04N 5/782 H04N5/7613 covered by H04N 5/782 H04N5/7617 covered by H04N 5/782 H04N5/922 covered by H04N 5/92 H04N5/924 covered by H04N 5/92 H04N9/815 covered by H04N 9/81 H04N11/24 covered by H04N 11/002 H04N15/00 covered by H04N 13/00</p>	<p>In existing Warning 1, <u>DELETE only</u> the last two rows shown below.</p> <p>H04N11/24 covered by H04N 11/002 H04N15/00 covered by H04N 13/00</p>

*N = new warning, M = modified warning, D = deleted warning

NOTE: The "Location" column only requires the symbol PRIOR to the location of the warning. No further directions such as "before" or "after" are required.

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C. New, Modified or Deleted Note(s)

SUBCLASS H04N - PICTORIAL COMMUNICATION, e.g. TELEVISION

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
D	H04N 5/00	Groups H04N 5/341 - H04N 5/378 are based on IPC2012.01	
M	H04N 5/335	In this group, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place. Groups H04N 5/341 - H04N 5/378 are based on IPC2012.01	<u>Modify</u> the note by deleting the <u>second</u> sentence shown below. Groups H04N 5/341 – H04N 5/378 are based on IPC2012.01

*N = new note, M = modified note, D = deleted note

NOTE: The “Location” column only requires the symbol PRIOR to the location of the note. No further directions such as “before” or “after” are required.

2. A. DEFINITIONS (new)

Insert the following new definitions.

H04N 1/03

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Scanning arrangements using multi-element arrays	H04N 1/19
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H04N 1/06

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding a sheet in the subscanning direction by rotation about its axis only	H04N 1/12
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H04N 1/10

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Arrangements for the main-scanning	H04N 1/12
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H04N 1/23

Definition statement

This group covers:

Arrangements providing the output copy of a document in a system performing the scanning, transmission and reproduction of documents or the like, e.g. printing arrangements integrated within a facsimile device

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Perforating or marking objects by electrical discharge	B26F 1/28
Selective printing mechanisms per se	B41J
Details of scanning heads	H04N 1/024
Scanning arrangements	H04N 1/04

H04N 1/34

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Telephonic metering	H04M 15/00
Coin-freed or like apparatus per se	G07F

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H04N 1/403**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Shaping pulses by limiting or thresholding, in general	H03K 5/08
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H04N 3/02**References****Limiting references***This place does not cover:*

Scanning of motion picture films	H04N 3/36
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Application-oriented references*Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Picture signal generators using optical-mechanical scanning means only, for colour television systems	H04N 9/10
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Scanning systems using movable or deformable optical elements for controlling the intensity, colour, phase, polarisation or direction of light	G02B 26/10
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H04N 3/10**References****Limiting references***This place does not cover:*

Scanning of motion picture films	H04N 3/36
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Devices or arrangements for the control of the direction of light arriving from an independent light source	G02F 1/00
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H04N 3/14**Definition statement***This place covers:*

Scanning details of electrically scanned solid-state picture reproducers.

References**Limiting references***This place does not cover:*

Transforming light or analogous information into electric information using solid-state image sensors	H04N 5/335
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Application-oriented references*Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Picture reproducers using solid-state colour display devices	H04N 9/30
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PROJECT RP0317

H04N 3/16

Definition statement

This place covers:

Deflection circuits for cathode-ray tubes, when specially adapted for television

References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Picture reproducers, specially adapted for colour television systems, using cathode-ray tubes	H04N 9/16
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Cathode ray oscillographs	G01R13/20
Deflection circuits, of interest only in connection with cathode-ray tube indicators	G09G 1/04
Control arrangements or circuits using single beam cathode-ray tubes, the beam directly tracing characters, the information to be displayed controlling the deflection as a function of time in two spatial coordinates	G09G 1/08
Electric discharge tubes of discharge lamps	H01J
Linearisation of ramp of a sawtooth shape pulse	H03K 4/90

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H04N 3/185**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Regulation of dc voltage in general	G05F
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H04N 3/223**References****Limiting references***This place does not cover:*

Circuits for controlling dimensions of picture on screen by maintaining the cathode-ray tube high voltage constant	H04N 3/185
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Control arrangements or circuits using single beam cathode-ray tubes, the beam tracing a pattern independent of the information to be displayed, this latter determining the parts of the pattern rendered respectively visible and invisible	G09G 1/14
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H04N 3/26**References****Informative references**

Focussing circuits in general	H01J
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Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Arrangements for convergence or focusing in cathode-ray tubes specially adapted for colour television systems	H04N 9/28
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H04N 3/27**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Circuitry of multi-standard receivers in general	H04N 5/46
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H04N 3/36**References****Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Scanning of colour motion picture films, e.g. for telecine	H04N 9/11
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Picture signal generating by scanning motion picture films or slide opaques, e.g. for telecine	H04N 5/253
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H04N 5/04**References****Limiting references***This place does not cover:*

Synchronising systems used in the transmission of pulse code modulated video signals with other pulse code modulated signal	H04N 7/56
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Application-oriented references*Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Colour synchronization	H04N 9/44
Synchronisation processes at server side for selective content distribution	H04N 21/242

Informative references*Attention is drawn to the following places, which may be of interest for search:*

Synchronisation between a display unit and other units, e.g. other display units, video-disc players	G09G 5/12
Synchronisation of pulses having essentially a finite slope or stepped portions	H03K 4/90
Synchronisation of generators of electronic oscillations or pulses	H03L 7/00
Arrangements for synchronising receiver with transmitter in the transmission of digital information	H04L 7/00

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H04N 5/16**References****Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Circuits for reinsertion of dc and slowly varying components of colour signals	H04N 9/72
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H04N 5/20**References****Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Circuits for controlling the amplitude of colour signals	H04N 9/68
--	---------------------------

H04N 5/21**References****Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Suppression of noise in television signal recording	H04N 5/911
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H04N 5/217

References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Noise reduction or noise suppression involving solid-state image sensors	H04N 5/357
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H04N 5/268

References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Arrangements for broadcast or for distribution combined with broadcast	H04H 20/00
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H04N 5/351

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Circuitry for compensating for variation in the brightness of the object	H04N 5/235
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H04N 5/357**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Circuitry for suppressing or minimizing disturbance in picture signal generation	H04N 5/217
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H04N 5/369**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Imager structures, as devices consisting of a plurality of semiconductor or other solid-state components formed in or on a common surface, per se	H01L 27/146
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H04N 5/374**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

CMOS imager structures	H01L 27/14643
Charged coupled imagers per se	H01L 27/148

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H04N 5/376**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Arrangements for selecting an address in a digital store	G11C 8/00
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H04N 5/378**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Amplifiers per se	H03F
Analogue/digital conversion per se	H03M 1/00

H04N 5/38**References****Limiting references***This place does not cover:*

Picture signal circuitry for video frequency region	H04N 5/14
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Transmitter circuits per se	H04B 1/04
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H04N 5/40**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Modulation per se	H03C
Digital communication modulator circuits	H01L 27/04, H01L 27/12, H01L 27/20

H04N 5/44**References****Limiting references***This place does not cover:*

Picture signal circuitry for video frequency region	H04N 5/14
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Receiver circuits per se	H04B 1/16
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H04N 5/455**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Demodulation per se	H03D
Digital communication demodulator circuits	H01L 27/06, H01L 27/14, H01L 27/22

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H04N 5/46**References****Limiting references***This place does not cover:*

Deflecting circuits of multi-standard receivers	H04N 3/27
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H04N 5/50**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Tuning resonant circuits per se	H03J
Automatic frequency control per se	H03J 7/02

H04N 5/52**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Automatic gain control in amplifiers per se	H03G 3/20
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H04N 5/63**References****Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Generation of supply voltages, in combination with electron beam deflecting	H04N 3/18
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Regulating of voltage or current in general	G05F
Transformers	H01F 29/00 ; H01F 30/00
Supplying or distributing electric power, in general	H02J
Static converters	H02M

H04N 5/64**References****Limiting references**

This place does not cover:

Furniture aspects of television cabinets	A47B 81/06
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Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Combinations of a television receiver with apparatus having a different main function	H05K 11/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Constructional details of communication receivers, in general	H04B 1/08
Casings, cabinets or drawers for electric apparatus, in general	H05K 5/00

H04N 5/66**References****Limiting references**

This place does not cover:

Scanning details of television systems	H04N 3/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

CRT's	H01J
electro- or magneto optic devices	G02F 1/00

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H04N 5/68

Definition statement

This place covers:

Circuit details of cathode-ray display tubes pertaining to the conversion of electrical information into light information, when specially adapted for television displays.

References

Limiting references

This place does not cover:

Scanning in television systems by deflecting electron beam in cathode-ray tube	H04N 3/16
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Control arrangements or circuits, of interest only in connection with cathode-ray tube indicators	G09G 1/00
Generating pulses having essentially a finite slope or stepped portion	H03K 4/00

H04N 5/70

Definition statement

This place covers:

Circuit details of the conversion of electric information into light information in electroluminescent television displays.

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References**Informative references***Attention is drawn to the following places, which may be of interest for search:*

Control arrangements or circuits using electroluminescent elements for presentation of a single character by selection from a plurality of characters, or by composing the character by combination of individual elements	G09G 3/12
Control arrangements or circuits using electroluminescent panels for presentation of an assembly of a number of characters, by composing the assembly by combination of individual elements arranged in a matrix	G09G 3/30

H04N 5/72**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Diffusing elements per se	G02B 5/02
Optical filters per se	G02B 5/20

H04N 5/74**References****Application-oriented references***Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Projection devices for colour picture display	H04N 9/31
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H04N 5/765**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Arrangements for the associated working of recording or reproducing apparatus with related apparatus	G11B 31/00
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H04N 5/7822**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Fixed mountings of heads relative to magnetic record carriers	G11B 5/49
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H04N 5/7824**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Disposition or mounting of heads on rotating support	G11B 5/53
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H04N 5/80**References****Limiting references***This place does not cover:*

Television signal processing recording	H04N 5/91
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Recording or reproducing using electrostatic charge injection; record carriers therefor	G11B 9/08
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H04N 5/84**References****Limiting references***This place does not cover:*

Television signal recording using electrostatic recording	H04N 5/80
Television signal recording using holographic recording	H04N 5/89
Television signal processing for recording	H04N 5/91

Informative references*Attention is drawn to the following places, which may be of interest for search:*

Recording or reproducing by optical means; record carriers therefor	G11B 7/00
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H04N 5/89**References****Limiting references***This place does not cover:*

Television signal processing recording	H04N 5/91
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Recording, reproducing or erasing by using optical interference patterns, e.g. holograms	G11B 7/0065
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H04N 5/903**References****Limiting references***This place does not cover:*

Television signal processing recording	H04N 5/91
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Recording or reproducing using record carriers having variable electrical capacitance; Record carriers therefor	G11B 9/06
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H04N 5/907**References****Limiting references***This place does not cover:*

Television signal processing recording	H04N 5/91
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Television signal recording based on relative movement between record carrier and transducer	H04N 5/78 - H04N 5/903
Static stores per se	G11C

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H04N 5/91

References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Processing of colour television signals in connection with recording	H04N 9/79
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H04N 5/911

References

Limiting references

This place does not cover:

Regeneration of analogue synchronisation signals	H04N 5/932
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Circuitry for suppressing or minimizing disturbance in television systems in general	H04N 5/21
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H04N 5/919**References****Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Processing of colour television signals for recording the signal in a plurality of channels, the bandwidth of each channel being less than the bandwidth of the signal	H04N 9/797
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H04N 5/926**References****Limiting references**

This place does not cover:

Television signal processing for recording for bandwidth reduction by dividing samples or signal segments	H04N 5/919
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Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Transformation of the television signal for recording involving pulse code modulation of the colour picture signal components	H04N 9/804
Transformation of the television signal for recording involving pulse code modulation of the composite colour video-signal	H04N 9/808

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H04N 5/928**References****Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Transformation of the television signal for recording involving pulse code modulation of the colour picture signal components with processing of the sound signal	H04N 9/806
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H04N 5/937**References****Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Regeneration of colour television signals	H04N 9/877
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H04N 5/945**References****Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Signal drop-out compensation for signals recorded by pulse code modulation in the regeneration of colour television signals	H04N 9/888
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Error detection or correction of digital signals for recording in general	G11B 20/18
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H04N 5/953**References****Application-oriented references***Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Time-base error compensation using an analog memory, e.g. a CCD-shift register, the delay of which is controlled by a voltage controlled oscillator, in the regeneration of colour television signals	H04N 9/893
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H04N 5/956**References****Application-oriented references***Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Time-base error compensation using a digital memory with independent write-in and read-out clock generators, in the regeneration of colour television signals	H04N 9/898
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H04N 9/097**Informative references***Attention is drawn to the following places, which may be of interest for search:*

Beam splitting or combining systems per se	G02B 27/10
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H04N 9/10**References****Limiting references***This place does not cover:*

Scanning of colour motion picture films, e.g. for telecine	H04N 9/11
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Scanning by optical-mechanical means only, applicable to television systems in general	H04N 3/02
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H04N 9/11**Informative references***Attention is drawn to the following places, which may be of interest for search:*

Details of scanning of motion picture films, e.g. for telecine, applicable to television systems in general	H04N 3/36
Picture signal generating by scanning motion picture or slide opaques, e.g. for telecine	H04N 5/253

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H04N9/14**Limiting references***This group does not cover:*

Scanning of colour motion picture films, e.g. for telecine	H04N 9/11
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Scanning by optical-mechanical means only, applicable to television systems in general	H04N 3/02
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H04N 9/16**References****Limiting references***This place does not cover:*

Scanning of colour motion picture films	H04N 9/11
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Control arrangements or circuits using colour cathode-ray tube indicators	G09G 1/28
Cathode-ray tubes per se	H01J 31/00
Scanning by deflecting electron beam in cathode-ray tube, applicable to television systems in general	H04N 3/16

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H04N 9/28**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Modification of scanning arrangements to improve focusing in cathode-ray tubes, applicable to television systems in general	H04N 3/26
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H04N 9/30**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Indicating devices using static means to present variable information	G09G
Scanning by means of electrically scanned solid-state devices, applicable to picture reproduction in television systems in general	H04N 3/14

H04N 9/68**References****Limiting references***This place does not cover:*

For colour killing combined with colour gain control	H04N 9/71
Colour balance circuits	H04N 9/73

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Informative references

Attention is drawn to the following places, which may be of interest for search:

Circuitry for controlling amplitude response, applicable to television systems in general	H04N 5/20
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H04N 9/72

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Circuitry for reinsertion of dc and slowly varying components of signals, applicable to television systems in general	H04N 5/16
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H04N 9/797

Limiting references

This place does not cover:

Transformation of the television signal for recording involving pulse code modulation of the colour picture signal components	H04N 9/804
Transformation of the television signal for recording the individual colour picture signal components being recorded sequentially only	H04N 9/81
Transformation of the television signal for recording the individual colour picture signal components being recorded simultaneously only	H04N 9/82

Informative references

Attention is drawn to the following places, which may be of interest for search:

Television signal processing for bandwidth reduction, by dividing samples or signal segments among a plurality of recording channels, in general	H04N 5/919
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H04N 9/80**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Modulation	H03C
Demodulation or transference of modulation from one carrier to another	H03D
Transformation of the television signal for recording, e.g. modulation, frequency changing, in general; Inverse transformation for playback, applicable to television systems in general	H04N 5/92

H04N 9/804**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Transformation of the television signal for recording by pulse code modulation, in general; Inverse transformation for playback thereof	H04N 5/926
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H04N 9/87**References****Limiting references***This place does not cover:*

Transformation of the television signal for recording, e.g. modulation, frequency changing; Inverse transformation for playback	H04N 9/80
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PROJECT RP0317

Informative references*Attention is drawn to the following places, which may be of interest for search:*

Regeneration of the television signal or of selected parts thereof, in general	H04N 5/93
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H04N 9/877**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Regeneration of the television signal or of selected parts thereof, by assembling picture element blocks in an intermediate store in general	H04N 5/937
--	----------------------------

H04N 9/88**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Signal drop-out compensation, applicable to television systems in general	H04N 5/94
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H04N 9/888**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

error detection or correction of digital signals for recording in general	G11B 20/18
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Signal drop-out compensation for signals recorded by pulse code modulation, applicable to television systems in general	H04N 5/945
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H04N 9/89**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Time-base error compensation, applicable to television systems in general	H04N 5/95
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H04N 9/893**Reference****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Time-base error compensation by using an analogue memory, e.g. a CCD-shift register, the delay of which is controlled by a voltage controlled oscillator, applicable to television systems in general	H04N 5/953
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H04N 9/898**References****Limiting references**

This place does not cover:

Transformation of the television signal for recording, the recorded chrominance signal occupying a frequency band under the frequency band of the recorded brightness signal	H04N 9/83
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Time-base error compensation by using an analogue memory, e.g. a CCD-shift register, the delay of which is controlled by a voltage controlled oscillator, applicable to television systems in general	H04N 5/956
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H04N 11/02**References****Limiting references***This place does not cover:*

Using pulse code modulation	H04N 11/04
High definition television systems	H04N 11/24

Informative references*Attention is drawn to the following places, which may be of interest for search:*

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, in general	H04N 7/12
Methods or arrangements for coding, decoding, compressing or decompressing digital video signals	H04N 19/00

H04N 11/04**References****Limiting references***This place does not cover:*

High definition television systems	H04N 11/24
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

Pulse code modulation in general	H03K, H03M
Transmission systems using pulse code modulation, in general	H04B 14/04
Systems for the transmission of television signals using pulse code modulation, in general	H04N 7/24

H04N 11/08**References****Limiting references***This place does not cover:*

Dot sequential systems	H04N 11/12
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H04N 11/20**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Conversion of standards in television systems in general	H04N 7/01
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H04N 11/24**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

High-definition television systems in general	H04N 7/015
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2. A. DEFINITIONS (Modified)

H04N

Definition statement

Delete: In the Definition statement section, **all of the text** located under the preamble.

- transmission of pictures or their transient or permanent reproduction either locally or remotely, by methods involving both the following steps:
- step (a): the scanning of a picture, i.e. resolving the whole picture-containing area into individual picture-elements and the derivation of picture-representative electric signals related thereto, simultaneously or in sequence;
- step (b): the reproduction of the whole picture-containing area by the reproduction of individual picture-elements into which the picture is resolved by means of picture-representative electric signals derived therefrom, simultaneously or in sequence;
- (in group H04N 1/00) systems for the transmission or the reproduction of arbitrarily composed pictures or patterns in which the local light variations composing a picture are not subject to variation with time, e.g. documents (both written and printed), maps, charts, photographs (other than cinematograph films);
- circuits specially designed for dealing with pictorial communication signals, e.g. television signals, as distinct from merely signals of a particular frequency range.

Replace: The deleted text with the new text below.

Television systems

- Television systems, whether general or specially adapted for colour television
- Details of television systems of general applicability, or specific to colour television, and also including scanning details of television systems
- Coding, decoding, compressing or decompressing of digital video signals
- Stereoscopic television systems, whether general or specially adapted for colour television, or details therefor

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- Selective distribution of pictorial content, in particular interactive television or video on demand [VOD]
- Diagnosis, testing or measuring for television systems or details therefor
- Transmission of pictures or their transient or permanent reproduction either locally or remotely, by methods involving both the following steps:
- Step (a): the scanning of a picture, i.e. resolving the whole picture-containing area into individual picture-elements and the derivation of picture-representative electric signals related thereto, simultaneously or in sequence;
- Step (b): the reproduction of the whole picture-containing area by the reproduction of individual picture-elements into which the picture is resolved by means of picture-representative electric signals derived therefrom, simultaneously or in sequence;
- (In group [H04N1/00](#)) Systems for the transmission or the reproduction of arbitrarily composed pictures or patterns in which the local light variations composing a picture are not subject to variation with time, e.g. documents (both written and printed), maps, charts, photographs (other than cinematograph films);
- Circuits specially designed for dealing with pictorial communication signals, e.g. television signals, as distinct from merely signals of a particular frequency range.

Other pictorial communication

- Scanning, transmission or reproduction of documents or the like, in particular facsimile transmission
- Details pertaining to scanning, transmission or reproduction of documents or the like, in particular details of facsimile transmission

Insert: The following new section: Relationship with other classification places.

Relationship with other classification places

Subclass [G09G](#) covers arrangements for control of display devices characterised by the type of display device or its components, whilst [H04N](#) covers the acquisition and control of the picture signal which is intended for display.

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Photographic or cinematographic apparatus, or processes, that are specific to film-based photography or cinematography (e.g. film-strip handling) are covered in subclass [G03B](#). The optical and mechanical features of cameras and projectors are typically – but not always – covered by subclass [G03B](#), and due regard should be given to the multi-aspect classification rule stated below.

When the following subject matter is classified in this subclass, it is desirable to also classify it in Subclass [G03B](#), when some aspects are considered of interest for search purposes:

- Digital still cameras, or their details
- Projectors or projection-type viewers using an electronic spatial light modulator, or their details
- Video cameras, CCTV cameras, surveillance cameras and camcorders, or details thereof

Delete: The entire existing Limiting references section.

Insert: The following new section: Application-oriented references.

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Instruments for performing medical examinations of the interior of cavities or tubes of the body combined with television appliances	A61B 1/04
Arrangements of television sets in vehicles; Arrangement of controls thereof	B60R 11/02
Mounting of cameras operative during drive of a vehicle; Arrangements of control thereof relative to the vehicle	B60R 11/04
Arrangements of cameras in aircraft	B64D 47/08
Controlling or regulating single-crystal growth by pulling from a melt, using television detectors	C30B 15/26
Inspecting textile materials by television means	D06H 3/08
Scanning a visible indication of a measured value and reproducing this indication at a remote place, e.g. on the screen of a cathode-ray tube	G01D 5/39
Burglar, theft, or intruder alarms using television cameras	G08B 13/196

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Structural combination of reactor core or moderator structure with television camera	G21C 17/08
--	------------

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Video games, i.e. games using an electronically generated display having two or more dimensions	A63F 13/00
Systems for the reproduction according to the above-mentioned step (b) of pictures comprising alphanumeric or like character forms and involving the generation according to the above-mentioned step (a) of picture-representative electric signals from a pre-arranged assembly of such characters, or records thereof, forming an integral part of the systems	B41B, G06K
Printing, duplication or marking processes, or materials therefor	B41C, B41J, B41M, G03C, G03F, G03G
Systems for the reproduction according to step (b) of Note (1) of pictures comprising alphanumeric or like character forms but involving the production of the EQUIVALENT of a signal which would be derived according to the above-mentioned step (a), e.g. by cams, punched card or tape, coded control signal, or other means	G01D, G06T, H04L
Systems for the direct photographic copying of an original picture in which an electric signal representative of the picture is derived according to the said step (a) and employed to modify the operation of the system, e.g. to control exposure	G03
Systems in which legible alphanumeric or like character forms are analysed according to step (a) of Note (1) to derive an electric signal from which the character is recognised by comparison with stored information	G06K
Image data processing or generation, in general	G06T
Circuits or other parts of systems which form the subject of other subclasses	H03C, H03F, H03J, H04H
Broadcasting	H04H

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Glossary of terms

Insert: The following new rows in the Glossary of terms section.

CCD	Charge-coupled device, that is, a device made up of semiconductors arranged in such a way that the electric charge output of one semiconductor charges an adjacent one
MPEG	Motion Picture Experts Group; a family of standards used for coding audio-visual information in a digital compressed format
NTSC	National Television System Committee
PAL	Phase alternating line
Picture signal generator	Circuits or arrangements receiving as input an image of a scene and delivering as output an electric signal that contains all the information required to reproduce the image of the scene
Picture reproducer	Circuits or arrangements receiving as input an electric signal characteristic of an image of a scene and producing as output a visual display of that image
SECAM	Séquentiel couleur à mémoire (Sequential Colour with Memory)

Delete: From the Glossary of terms table, the existing row shown below.

television systems	asystems for the transmission and reproduction of arbitrarily composed pictures in which the local light variations composing a picture MAY change with time, e.g. natural "live" scenes, recordings of such scenes such as cinematograph films
--------------------	---

Replace: The deleted row with the updated row shown below.

Television systems	Systems for the transmission and reproduction of arbitrarily composed pictures in which the local light variations composing a picture MAY change with time, e.g. natural "live" scenes, recordings of such scenes such as cinematograph films
--------------------	--

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H04N 1/00

Definition statement

Insert: The following text as the first bulleted statement in the Definition statement section.

- systems for the transmission or the reproduction of arbitrarily composed pictures or patterns in which the local light variations composing a picture are not subject to variation with time, e.g. documents (both written and printed), maps, charts, photographs (other than cinematograph films)

Limiting references

Delete: The entire Limiting References section.

Informative references

Insert: The following new rows in the Informative References section.

Printing mechanisms	B41J
Electrography; Magnetography	G03G
Storage management	G06F 3/0604
Image retrieval	G06F 16/50
Retrieval from Web	G06F 16/95
Computer security	G06F 21/00
Payment schemes, Commerce	G06Q 20/00, G06Q 30/00
Monitoring or testing of transmitters/receivers	H04B 17/00
Broadcast communication	H04H
Data processing in data switching networks	H04L12/56
Real-time data network services	H04L 29/06176
Data network security	H04L 29/06551
Applications for data network services	H04L 29/08081
Scanning details of electrically scanned solid-state devices	H04N 3/14
Capture aspects of still video cameras	H04N 5/225

H04N 1/12

References

Insert: The following new section: Limiting references.

Limiting references

This place does not cover:

Scanning arrangements using multi-element arrays	H04N 1/19
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H04N 1/36

Insert: The following new section: References/Informative references.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Synchronisation of pulses	H03K 4/90
---------------------------	---------------------------

H04N 1/42

Limiting references

Delete: The following text from the Limiting references section.

Circuits or arrangements for control or supervision between transmitter and receiver, see: H04N1/32

Replace: The deleted text with the following new table row.

Circuits or arrangements for control or supervision between transmitter and receiver	H04N 1/32
--	---------------------------

Informative references

Insert: The following new row in the existing Informative references table.

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Selective content distribution, e.g. interactive television	H04N 21/00
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H04N 1/44

Informative references

Delete: The following row from the Informative references table.

Television secrecy systems	H04N 7/16
----------------------------	---------------------------

Replace: The row deleted in the Informative references table with the new row below.

Analogue secrecy television systems	H04N 7/16
-------------------------------------	---------------------------

H04N 1/48

Insert: The following new section: References/Limiting references.

References

Limiting references

This place does not cover:

Circuits or arrangements for halftone screening	H04N 1/52
---	---------------------------

H04N 1/50

Insert: The following new section: References/Limiting references.

References

Limiting references

This place does not cover:

Circuits or arrangements for halftone screening	H04N 1/52
---	---------------------------

H04N 5/00

Limiting references

Insert: The following new row in the existing Limiting references table.

Scanning details of television systems; Combination thereof with generation of supply voltages	H04N 3/00
--	-----------

Delete: From the Limiting references table all of the rows listed below.

Constructional details related to the housing of computer displays	G06F 1/1601
Constructional details or arrangements for portable computers	G06F 1/1613
Diversity receivers	H04B 7/08
Broadcast receivers	H04H 20/38
Home automation networks	H04L 12/2803

Insert: The following new section: Application-oriented references.

Application-oriented references

Examples of places where the subject matter of this group is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Details of colour television systems	H04N 9/00
Details of stereoscopic television systems	H04N 13/00
Servers specifically adapted for the selective distribution of content	H04N 21/20
Client devices specifically adapted for the reception of, or interaction with, content in selective content distribution	H04N 21/40
Wall TV displays	H04N 9/12

Informative references

Delete: The following row from the existing Informative references table.

Wall TV displays	H04N 9/12
------------------	-----------

Insert: The following new rows in the existing Informative references table.

Constructional details related to the housing of computer displays	G06F 1/1601
Constructional details or arrangements for portable computers	G06F 1/1613
Diversity receivers	H04B 7/08
Broadcast receivers	H04H 20/38
Home automation networks	H04L12/2803

Glossary of terms

Insert: The following new row in the Glossary of terms table.

KTC	Thermal noise on capacitor
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H04N 5/222

Definition statement

Replace: In the Definition statement section (replacement already done in the text below), the word “focussing” with “focusing” in the following three bulleted statements under the heading: Concerning cameras.

- for controlling the EIS or its read-out for e.g. exposure, scene selection for auto focusing, or electronic image enhancement or processing of image signals captured by the EIS, e.g. white balance, electronic motion blur correction, noise suppressing,
- for controlling other camera functions, e.g. exposure, shaking by influencing optical parts of the camera, focusing,
- cameras wherein the inventive contribution lies in the interaction of features covered above with those covered by G03B e.g. switch-over between electronic motion-blur correction of electronic viewfinder during focusing and optical motion-blur correction of the

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lens during exposure, electronic-motion blur correction of the electronic image signal based on output signals of additional sensor, or interaction between mechanical shutter and electronic control of the charge accumulation period of the EIS;

Limiting references

Delete: The entire Limiting references section.

Informative references

Delete: The following two rows from the Informative references section.

Image processing	G06T
Solid state image structure	H01L 27/00

Insert: The following new rows in the Informative references section.

Radiation diagnosis, diagnostic aspect of medical imaging devices	A61B, A61C
Pyrometry, measuring temperature	G01J 5/00
Measuring X-rays, gamma radiation	G01T 1/00
Image processing in general, i.e. not being exclusively adapted to be used in an image pickup device containing an EIS or in studio devices or equipment	G06T
Solid state imaging devices, e.g. CMOS image sensors	H01L 27/146
Optical elements or arrangements associated with solid state imager structures	H01L 27/14625
CCD image sensors	H01L 27/148
Mounting structure in mobile phones	H04M 1/0264

H04N 5/225

Informative references

Insert: The following new row in the Informative references table.

Cameras used as input-only client peripherals for selective content distribution	H04N 21/4223
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H04N 5/235

References

Insert: The following new section: Application-oriented references.

Application-oriented references

Examples of places where the subject matter of this group is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Control of the solid-state image sensors depending on the scene, e.g. brightness	H04N 5/351
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H04N 5/253

Insert: The following new section: Application-oriented references.

Application-oriented references

Examples of places where the subject matter of this group is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Scanning of colour motion picture films, e.g. for telecine	H04N 9/11
--	---------------------------

H04N 5/28

Insert: The following new section: References/Application-oriented references.

References

Application-oriented references

Examples of places where the subject matter of this group is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Broadcast communication aspects of mobile studios	H04H 60/05
---	----------------------------

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H04N 5/30**Limiting references**Delete: The following row from the Limiting references section:

Light transforming elements	H01J, H01L
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Insert: The following new section: Informative references.**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Light transforming elements	H01J, H01L
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H04N 5/32Insert: The following new section: Application-oriented references.**Application-oriented references**

Examples of places where the subject matter of this group is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Investigating or analyzing materials by the use of wave or particle radiation, e.g. X-rays, by transmitting the radiation through the material and forming a picture	G01N 23/04
--	------------

Informative referencesInsert: The following new row into the Informative references section.

Apparatus for radiation diagnosis, e.g. combined with radiation therapy equipment	A61B 6/00
---	-----------

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H04N 5/33

Informative references

Insert: The following new row in the Informative references table.

Detection of the presence or absence of infrared radiation, not otherwise provided for	G01J
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H04N 5/335

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Imager structures consisting of a plurality of semiconductor or other solid-state components formed in or on a common substrate	H01L 27/146
Charged coupled imagers	H01L 27/148

Special rules of classification

Insert: The following new text as the first bulleted item in the Special rules of classification section:

- In this group, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.

H04N 5/76

Limiting references

Delete: The entire Limiting references section.

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Application-oriented references

Delete: The following row from the Application-oriented references table.

Systems for buying and selling, i.a., video content	G06Q 30/00
---	----------------------------

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Information storage based on relative movement between record carrier and transducer	G11B
Static stores	G11C
Personal video recorder in selective content distribution systems	H04N 21/4147
Video data processing for printing	G03F 1/00
Systems for buying and selling, i.e. video content	G06Q 30/00
Business methods related to the distribution of video data content	G06Q 30/02
Video editing	G11B 27/034
Recording techniques specially adapted to a recording medium for recording digital data in general	G11B 27/10
Control of video recorders where the video signal is not substantially involved	G11B 31/00
Video camera constructional details	H04N 5/225
Network video distribution	H04N 21/236
Production of a video signal from a motion picture film	H04N 5/253
Interfaces	H04N 5/44
User interface of set top boxes	H04N 5/44543
Video data coding	H04N 19/00

Special rules of classification

Delete: The first sentence in the Special rules of classification section.

[H04N 5/76](#) features a small number of ECLA subdivisions and has an additional associated Indexing Code scheme [H04N 5/76](#) (Indexing Code).

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Replace: All six occurrences of “EC” with “CPC”, in the following statements in the Special rules of classification section.

Allocation of EC symbols:

- A document containing invention information relating to video data recording will be given an **H04N 5/76** EC group.
- A document containing additional information relating to video data recording (in particular, if the document discloses a detailed video recording device) will be given a **H04N 5/76** Indexing Code symbol.
- A document containing invention information for more than one invention it may be given more than one **H04N 5/76** EC group.
- A document merely mentioning recording will not be given an EC group, but it may receive an Indexing Code if the disclosure is considered relevant.

Allocation of Indexing Code symbols in combination with EC:

- When assigning **H04N 5/76** as EC group, giving an additional Indexing Code is mandatory.

H04N 5/775

Informative references

Insert: The following new row into the Informative references table.

Synchronisation between a display unit and video-disc players	G09G 5/12
---	------------------

H04N 5/781

Insert: The following new section: References/Informative references.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Recording on, or reproducing or erasing from, magnetic drums	G11B 5/004
Recording on, or reproducing or erasing from, magnetic disks	G11B 5/012

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Magnetic drum carriers	G11B 5/76
Magnetic disk carriers	G11B 5/82

H04N 5/782

Insert: The following new section: References/Informative references.

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Recording on, or reproducing or erasing from, magnetic tapes	G11B 5/008
Magnetic tape carriers	G11B 5/78
Arrangements for device control affected by the broadcast information	H04H 60/13

H04N 5/85

Insert: The following new section: References/Informative references.

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Recording or reproducing by optical means with cylinders	G11B 7/0025
Recording or reproducing by optical means with disks	G11B 7/0037

H04N 5/917**Limiting references**

Delete: The entire Limiting references section.

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Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Transformation of the television signal for recording by pulse code modulation	H04N 5/926 , H04N 9/804
Methods or arrangements for coding, decoding, compressing or decompressing digital video signals	H04N 19/00
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 7/12
Systems for the transmission of television signals using pulse code modulation	H04N 7/24

H04N 5/92

Delete: The entire Definition statement section.

Insert: The following two new sections: References/Application-oriented references and Informative references.

References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Transformation of the colour television signal for recording, e.g. modulation, frequency changing; Inverse transformation for playback	H04N 9/80
--	---------------------------

Informative references

Attention is drawn to the following places, which may be of interest for search:

Modulation	H03C
Demodulation or transference of modulation from one carrier to another	H03D

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Transmitter circuitry	H04N 5/38
Receiver circuitry	H04N5/44

H04N 5/93

Delete: The entire Definition statement section.

Insert: The following new section: References/Application-oriented references.

References**Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Regeneration of colour television signals by assembling picture element blocks in an intermediate memory	H04N 9/87
--	---------------------------

H04N 5/94

Delete: The entire Definition statement section.

Insert: The following new section: References/Application-oriented references.

References**Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Signal drop-out compensation in the regeneration of colour television signals	H04N 9/88
---	---------------------------

H04N 5/95

Delete: The entire Definition statement section.

References

Insert: The following new Application-oriented references section.

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Time-base error compensation in the regeneration of colour television signals	H04N 9/89
---	---------------------------

H04N 7/00

Limiting references

Replace: All of the rows in the existing Limiting references table with the following rows.

Scanning details of television systems; Combination thereof with generation of supply voltages	H04N 3/00
Generation of supply voltages, in combination with electron beam deflecting	H04N 3/18
Details of television systems	H04N 5/00
Details of systems specific to colour television	H04N 9/00
Methods or arrangements for coding, decoding, compressing or decompressing digital video signals	H04N 19/00
Selective content distribution	H04N 21/00

Insert: The following new Application-oriented references section.

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Colour television systems	H04N 11/00
Stereoscopic television systems	H04N 13/00

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Informative references

Insert: The following new rows in the existing Informative references section.

Aspects of video games	A63F 13/00
Recognition of data in general	G06K
Image data processing or generation, in general	G06T
Broadcast communication in general	H04H
Wireless networks in general	H04W

Special rules of classification

Replace: “EC” with “CPC” in the following two statements in the Special rules of classification section.

A document containing invention information relating to one of the subgroups will be given the relating EC symbol.

A document merely mentioning a television system will not be given a EC symbol, but it may receive an Indexing Code if the disclosure is considered relevant.

H04N 7/01**Limiting references**

Delete: The entire Limiting references section.

Insert: The following new Application-oriented references section.

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Conversion of colour television standards	H04N 11/20
---	----------------------------

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Informative referencesInsert: The following new rows in the Informative references table.

Image scaling in general	G06T 3/40
Video signal processing specific to visual displays	G09G
Adapting incoming signals to the display format of the display terminal	G09G 5/005
Frame rate conversion for reducing blurring effect in a hold-type liquid crystal display (LCD)	G09G 2320/0257
Interpolation filters	H03H 17/0444, H03H 17/0657
Studio circuits for television systems involving alteration of picture size or orientation	H04N 5/2628
Saving bandwidth in low bit-rate video transmission	H04N 7/0115
Circuits specific for processing colour signals	H04N 9/64
Processing specific to video coder/decoder: transcoding to realise interoperability between different video coding standards	H04N 19/40
Processing specific to video coder/decoder: subsampling at the coder and/or sample restitution by interpolation at the coder or decoder	H04N 19/00, H04N 19/59, H04N 19/587

H04N 7/10**Informative references**Replace: The invalid symbol “H01R 17/12” with “H01R 24/40” in the Informative references table, as shown below.

Coaxial connectors for coaxial cables	H01R 24/40
---------------------------------------	------------

H04N 7/12**Limiting references**Delete: The first two rows in the Limiting references section.

Scanning details of television systems	H04N 3/00
High-definition television systems	H04N 7/015

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Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Scanning details of television systems	H04N 3/00
High-definition television systems	H04N 7/015

H04N 7/14

Limiting references

Delete: The following two rows from the Limiting references table.

Systems with two-way working, e.g. subscriber sending a programme selection signal	H04N 7/173
Telephonic communication systems combined with television receiver for reception of entertainment or information matter	H04M 11/085

Insert: The following new row in the Limiting references table.

Analogue secrecy or subscription systems with two-way working, e.g. subscriber sending a programme selection signal	H04N 7/173
---	------------

Informative references

Insert: The following new row in the Informative references table.

Telephonic communication systems combined with television receiver for reception of entertainment or information matter	H04M 11/085
---	-------------

H04N 7/15

Limiting references

Delete: The entire Limiting references section.

Informative references

Insert: In the existing Informative references table, as shown in the row below, the symbol: [H04L12/1813](#).

Arrangements for conference in data switching networks	H04L 12/18, H04L12/1813
--	--

Insert: The following new row in the Informative references table.

Systems for two-way working between two video terminals, e.g. videophone	H04N 7/141
--	----------------------------

H04N 7/16

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Secret communication	H04K
Secrecy systems in the scanning, transmission or reproduction of documents or the like	H04N 1/44

H04N 7/161

Limiting references

Delete: The following row from the Limiting references table.

Coin-freed and like apparatus in general	G07F
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Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Coin-freed and like apparatus in general	G07F
--	----------------------

H04N 7/167

Limiting references

Delete: The entire Limiting references section.

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Secret communication by adding a second signal to make the desired signal unintelligible	H04K 1/02
--	---------------------------

H04N 7/173

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Systems for two-way working in the scanning, transmission or reproduction of documents or the like	H04N 1/42
Client devices specifically adapted for the reception of, or interaction with, content, e.g. STB [set-top-box]; Operations thereof	H04N 21/40

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H04N 7/24

References

Insert: The following two new sections: Application-oriented references and Informative references.

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Colour television systems using pulse code modulation	H04N 11/04
---	----------------------------

Informative references

Attention is drawn to the following places, which may be of interest for search:

Transmission systems using pulse code modulation, in general	H04B 14/04
--	----------------------------

H04N 7/56

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Synchronisation of generators of electronic oscillations or pulses	H03L 7/00
Arrangements for synchronising receiver with transmitter in the transmission of digital information	H04L 7/00
Synchronising of television systems, in general	H04N 5/04

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H04N 9/00

Definition statement

Replace: In Definition statement section (in the second bulleted statement), “cathod-ray” with “cathode-ray”.

Insert: The following two new sections: References/Application-oriented references and Informative references.

References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Details of stereoscopic colour television systems	H04N 13/00
---	----------------------------

Informative references

Attention is drawn to the following places, which may be of interest for search:

Scanning details of television systems, in general	H04N 3/00
Details of television systems, in general	H04N 5/00

H04N 9/12

Limiting references

Insert: The following new row in the Limiting references table.

Scanning of colour motion picture films, e.g. for telecine	H04N 9/11
--	---------------------------

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Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices or arrangements for the electro-, magneto- or acousto-optical modulation or deflection of light beams	G02F
Control arrangements or circuits for visual indicators characterised by the way in which colour is displayed, common to cathode-ray tubes and other visual indicators	G09G 5/02

H04N 9/31

Insert: The following new section: Application-oriented references.

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Image reproducers	H04N 13/30
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Limiting references

Delete: The entire Limiting references section.

Informative references

Replace: The existing Informative references table with the following new table.

Optical systems in general	G02B
Devices for controlling direction of light e.g. DMD's	G02B 26/08
Head-up displays	G02B 27/01
Speckle reduction	G02B 27/48
Light control	G02F
Film projection and photography	G03B
Projection devices using film stock, photographic film or slides	G03B 21/00
Details of film projectors	G03B 21/14
Projection screens	G03B 21/56

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Image processing per se	G06T
Displaying of variable information using colour tubes	G09G 1/28
Control of colour illumination sources	G09G 3/3413
Liquid crystal colour display with specific pixel layout	G09G 3/3607
Characterised by the way in which colour is displayed	G09G 5/02
Using circuits for interfacing with colour displays	G09G 5/04
Using colour palettes	G09G 5/06
Projection arrangements for image reproduction e.g. using eidophor	H04N 5/74 - H04N 5/7491

H04N 9/44

References

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Synchronisation of pulses	H03K 4/90
Synchronising, applicable to television systems in general	H04N 5/04

H04N 9/77

Insert: The following new section: References/Limiting references.

References

Limiting references

This place does not cover:

Circuits for matrixing	H04N 9/67
------------------------	-----------

H04N 9/79

Relationships with other classification places

Replace: The invalid symbol **H04N 5/79** (see the 4th bulleted statement in the Relationships section) with **H04N 9/79** (as done in the text below).

- **H04N 9/79** is a function place for recording or processing for recording. **H04N 21/433** describes applications for recording in a distribution system.

Limiting references

Replace: The invalid symbol **H04N 4/225** with **H04N 5/225** as done in the row below.

Video camera constructional details	H04N 5/225
-------------------------------------	-------------------

Delete: The following row from the Limiting references table.

Business methods related to the distribution of video data content	G06Q 30/02
--	-------------------

Application-oriented references

Delete: The following row from the Application-oriented references table.

Systems for buying and selling, i.a., video content:	G06Q 30/00
--	-------------------

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Systems for buying and selling, i.a. video content	G06Q 30/00
Business methods related to the distribution of video data content	G06Q 30/02
Television signal processing in connection with recording, in general	H04N 5/91

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Special rules of classification

Delete: The opening sentence (shown below) from the first paragraph in the Special rules of classification section.

[H04N 9/79](#) features a small number of ECLA subdivisions and has an additional associated Indexing Code scheme [H04N 5/76](#) (Indexing Code).

Replace: In the statements below, all six occurrences of “EC” with “CPC” in the Special rules of classification section.

Allocation of EC symbols:

- A document containing invention information relating to video data recording will be given an [H04N 9/79](#) EC group.
- A document containing additional information relating to video data recording (in particular, if the document discloses a detailed video recording device) will be given a [H04N 9/79](#) Indexing Code symbol.
- A document containing invention information for more than one invention it may be given more than one [H04N 9/79](#) EC group.
- A document merely mentioning recording will not be given an EC group, but it may receive an Indexing Code if the disclosure is considered relevant.
- Allocation of Indexing Code symbols in combination with EC:
- When assigning [H04N 9/79](#) or a subclass thereof as EC group, giving an additional Indexing Code is optional.

H04N 11/00

Limiting references

Insert: The following new row in the Limiting references table.

Details of colour television systems	H04N 9/00
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H04N 17/00

Limiting references

Delete: The entire Limiting references section.

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Informative references

Insert: The following new rows into the Informative references table.

Arrangements for locating faults; Arrangements for electrical testing characterised by what is being tested not provided for elsewhere	G01R 31/00
Testing correct operation of photographic apparatus or parts thereof	G03B 43/00
Monitoring of transmission systems; Testing of transmission systems	H04B 17/00

Special rules of classification

Replace: All of the text in the Special rules of classification section with the following text.

H04N 17/00 features a limited number of CPC symbols and has an associated Indexing Code scheme with additional subdivisions: H04N 17/00

Allocation of CPC symbols and/or Indexing Code symbols:

- a document containing invention information relating to testing of television systems or details will be given an H04N 17/00 CPC symbol as invention information
- a document containing additional information relating to testing of television systems or details will be given an H04N17/00 CPC symbol as invention information
- a document merely mentioning details of colour television systems will not be given a CPC symbol as invention information, but it may receive an Indexing Code if the disclosure is considered relevant.

Monitoring aspects are also covered in the appropriate main groups, e.g. H04N 5/00, H04N 7/00, H04N 21/00.

H04N 21/00

Limiting references

Delete: The following rows from the Limiting references table (one row will be left in the Limiting references section).

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Storage management	G06F 3/0604
Software architectures; Program control	G06F 9/44, G06F 9/46
Error detection or correction; Monitoring	G06F 11/00
Video retrieval; Retrieval from Internet	G06F 17/30
Computer security	G06F 21/00
Billing; Advertising	G06Q 20/00, G06Q 30/00
Monitoring or testing of transmitters/receivers	H04B 17/00
Broadcast communication	H04H
Synchronisation in time-division multiplex	H04J 3/06
Broadcast or multicast in data switching networks	H04L 12/18
Maintenance or administration in data switching networks	H04L 41/00
Data processing in data switching networks	H04L 12/56
Message switching systems	H04L 51/00
Real-time data network services	H04L 29/06176
Data network security	H04L 29/06551
Applications for data network services	H04L 29/08081
Wireless networks	H04W

Informative references

Insert: The following new rows in the Informative references table.

Storage management	G06F 3/0604
Software architectures; Program control	G06F 9/44 , G06F 9/46
Error detection or correction; Monitoring	G06F 11/00
Computer security	G06F 21/00
Billing; Advertising	G06Q 20/00 , G06Q 30/00
Monitoring or testing of transmitters/receivers	H04B 17/00
Broadcast communication	H04H
Synchronisation in time-division multiplex	H04J 3/06
Broadcast or multicast in data switching networks	H04L 12/18
Maintenance or administration in data switching networks	H04L 41/00
Data processing in data switching networks	H04L 12/56
Message switching systems	H04L 51/00
Real-time data network services	H04L 29/06176
Data network security	H04L 29/06551

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Applications for data network services	H04L 29/08081
Wireless networks	H04W
Retrieval of video data	G06F 16/70
Retrieval from the web	G06F 16/95

Special rules of classification

Insert: The following text as the first paragraph in the Special rules of classification section.

In this main group, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.

H04N 21/222

Definition statement

Delete: The second paragraph in the Definition statement.

Example(s) of documents found in this subgroup: EP1204244,
WO2006130139

Insert: The following new Glossary of terms section.

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Secondary server	A server belonging to a hierarchy of servers, e.g. servers forming part of distributed systems or local servers for serving mobile terminals
------------------	--

H04N 21/2318

Insert: The following new section: Glossary of terms.

Glossary of terms

In this group, the following terms (or expressions) are used with the meaning indicated:

RAID	Redundant array of independent disks. A storage technology that combines multiple disk drive components into a logical unit
------	---

H04N 21/234

Definition statement

Delete: In the Definition statement section, the second paragraph (shown below).

Example(s) of documents found in this subgroup: WO 2005/117435 A1

Limiting references

Delete: The following row from the Limiting references table.

Video encoding or transcoding processes per se	H04N 19/00
--	----------------------------

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Video encoding or transcoding processes per se	H04N 19/00
Processing of video elementary streams, e.g. splicing a video clip retrieved from local storage with an incoming video stream or rendering scenes according to MPEG-4 scene graphs	H04N 21/44

H04N 21/241

References

Delete: The entire Limiting references section.

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Program loading or initiating in general	G06F 9/445
Multiprogramming arrangements	G06F 9/46
OS processes, e.g. booting a STB, implementing a Java virtual machine in a STB or power management in a STB	H04N 21/443

H04N 21/242

References

Delete: The following three rows from the Limiting references table.

Synchronisation arrangements in time-division multiplex systems	H04J 3/06
Arrangements for synchronising receiver with transmitter	H04L 7/00
Synchronising circuits with arrangements for extending range of synchronisation at the transmitter end	H04N 5/067

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Synchronisation arrangements in time-division multiplex systems	H04J 3/06
Arrangements for synchronising receiver with transmitter	H04L 7/00

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Synchronising circuits with arrangements for extending range of synchronisation at the transmitter end	H04N 5/067
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H04N 21/4185

Definition statement

Delete: The second paragraph in the Definition statement section.

Example(s) of documents found in this subgroup: US 2005/0001940 A1

Limiting references

Delete: The entire Limiting references section.

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Information-bearing cards or sheet-like structures characterised by identification or security features for use in combination with accessories specially adapted for information-bearing cards	B42D 25/22
Payment schemes, architectures or protocols	G06Q 20/00
Payment architectures where the payment is settled via telecommunication systems	G06Q 20/16
Payment architectures, schemes or protocols characterised by the use of cards	G06Q 20/34
E-commerce	G06Q 30/00
Mechanisms actuated by coded identity card or credit card to free or to actuate vending, hiring, coin or paper currency dispensing or refunding apparatus	G07F 7/08
Charging arrangements in data networks	H04L12/14
Elementary client operations, e.g. monitoring of home network or synchronising decoder's clock	H04N 21/43

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H04N 21/422

Definition statement

Delete: The second paragraph in the Definition statement section.

Example(s) of documents found in this subgroup: US 2005/0212911 A1

References

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Input arrangements or combined input and output arrangements for interaction between user and computer	G06F 3/01
--	---------------------------

H04N 21/431

Definition statement

Delete: The second paragraph in the Definition statement section.

Example(s) of documents found in this subgroup: US 2008/0062894 A1

Limiting references

Delete: The entire Limiting references section.

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Interaction techniques for graphical user interfaces	G06F 3/048
Receiver circuitry for displaying additional information	H04N 5/445
End-user applications using user interfaces	H04N 21/47

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H04N 21/4367

Definition statement

Delete: The second paragraph in the Definition statement section.

Example(s) of documents found in this subgroup: EP 1 990 999 A2

Limiting references

Delete: The entire Limiting references section.

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Arrangements for secret or secure communication per se	H04L 9/00
Security arrangements for protecting computers or computer systems against unauthorised activity	G06F 21/00
Security arrangements in wireless networks	H04W 12/00

H04N 21/4405

Definition statement

Delete: The second paragraph in the Definition statement section.

Example(s) of documents found in this subgroup: US 2005/0169466 A1

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Arrangements for secret or secure communication	H04L 9/00
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H04N 21/4408

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Arrangements for secret or secure communication	H04L 9/00
---	---------------------------

H04N 21/4425

Definition statement

Delete: The second paragraph in the Definition statement section.

Example(s) of documents found in this subgroup: EP2086234, US2010031307, WO2004/114583 A3

Limiting references

Delete: The entire Limiting references section.

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Monitoring in electrical digital data processing	G06F 11/00
Error detection in general	G06F 11/07
Monitoring in general	G06F 11/30

H04N 21/443

Definition statement

Delete: The second paragraph in the Definition statement section.

Example(s) of documents found in this subgroup: WO 2008/100092 A1

Limiting references

Delete: The entire Limiting references section.

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Boot device selection; Loading of operating system	G06F 9/4406
Arrangements for program loading or initiating	G06F 9/445
Program loading or initiating in general using non-volatile memory from which the program can be directly executed	G06F 9/44568

H04N 21/4627

Limiting references

Delete: The following row from the Limiting references table.

Protecting software against unauthorised usage in a vending or licensing environment	G06F 21/10
--	------------

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Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Protecting software against unauthorised usage in a vending or licensing environment	G06F 21/10
Generation of protective data, e.g. certificates	H04N 21/835

H04N 21/466

Definition statement

Delete: The second paragraph in the Definition statement section.

Example(s) of documents found in this subgroup: US 2002/0123928 A1, US 2005/0193414 A1

Limiting references

Delete: The entire Limiting references section.

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Monitoring of user activities for profile generation for accessing a video database	G06F 16/739
Computer systems using learning methods	G06N 3/08
Services using the results of monitoring in broadcast systems	H04H 60/61

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H04N 21/4786

Definition statement

Delete: The second paragraph in the Definition statement section.

Example(s) of documents found in this subgroup: WO 2005/041529 A1

Limiting references

Delete: The entire Limiting references section.

Insert: The following new section Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Message switching systems, e.g. electronic mail systems	H04L 51/00
Wireless messaging	H04W 4/12

H04N 21/60

Limiting references

Delete: The entire Limiting references section.

Insert: The following new section: Informative references.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Data switching networks	H04L12/00
Network arrangements or protocols for real-time communications	H04L 65/00
Protocols for communication control and processing in data networks	H04L 29/06
Protocols for client-server architecture	H04L 67/42
Wireless communication networks	H04W

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2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
H04N 1/0281	Limiting reference	Limiting reference <i>This place does not cover</i> Light-guides per se G02B 6/00	Delete: The entire Limiting references section.
H04N 1/0281			Insert: The following new Informative references section. Informative references <i>Attention is drawn to the following place, which may be of interest for search</i> Light-guides per se G02B 6/00
H04N 1/192	Informative references		Insert: The following new row in the Informative references table: Details of the sub-scanning H04N 1/10, H04N 1/12
H04N 1/387	Informative references		Insert: The following <u>two</u> new rows in the Informative references section: Image data processing or generation, in general G06T Photoelectric composing of characters B41B 19/00
H04N 1/46			Insert: The following new Informative references section. Informative references <i>Attention is drawn to the following place, which may be of interest for search</i> Colorimetry G01J 3/46

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
H04N 21/233	Limiting references	Details of formatting and decoding of an encoded audio signal representation into a data stream for transmission or storage purposes G10L 9/167	Delete: The existing row from the Limiting references table. Details of formatting and decoding of an encoded audio signal representation into a data stream for transmission or storage purposes G10L 9/167
H04N 21/233	Limiting references	Arrangements characterised by components specially adapted for monitoring, identification or recognition of audio in broadcast systems H04H 60/58	Delete: The existing row from the Limiting references table. Arrangements characterised by components specially adapted for monitoring, identification or recognition of audio in broadcast systems H04H 60/58
H04N 21/233	Limiting references		Insert: The following <u>new</u> row in the Limiting references section: Monitoring, identification or recognition of audio in broadcast systems H04H 60/58
H04N 21/233			Insert: The following <u>new</u> Informative references section. Informative references <i>Attention is drawn to the following place, which may be of interest for search</i> Details of formatting and decoding of an encoded audio signal representation into a data stream for transmission or storage purposes: G10L 19/167

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
H04N 21/2347	Limiting references	<p>Arrangements for preventing the taking of data from a data transmission channel without authorisation H04L 12/22</p> <p>Security arrangements in wireless networks H04W 12/00</p>	<p>Delete: The following rows from the Limiting references table.</p> <p>Arrangements for preventing the taking of data from a data transmission channel without authorisation H04L 12/22</p> <p>Security arrangements in wireless networks H04W 12/00</p>
H04N 21/2347			<p>Insert: The following <u>new</u> Informative references section.</p> <p>Informative references <i>Attention is drawn to the following place, which may be of interest for search</i></p> <p>Arrangements for secret or secure communication H04L 9/00</p> <p>Analogue secrecy systems H04N 7/16</p> <p>Arrangements for preventing the taking of data from a data transmission channel without authorisation H04L 12/22</p> <p>Security arrangements in wireless networks H04W 12/00</p>
H04N 21/235	Limiting references	<p>Arrangements for simultaneous broadcast of plural pieces of information H04H 20/28</p>	<p>Delete: The following row from the Limiting references table.</p> <p>Arrangements for simultaneous broadcast of plural pieces of information H04H 20/28</p>

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
H04N 21/235			<p>Insert: The following <u>new</u> Informative references section.</p> <p>Informative references <i>Attention is drawn to the following place, which may be of interest for search</i></p> <p>Arrangements for simultaneous broadcast of plural pieces of information H04H 20/28</p>
H04N 21/2543	Limiting references	Charging arrangements in data networks H04L 12/14	<p>Delete: The following row from the Limiting references table.</p> <p>Charging arrangements in data networks H04L 12/14</p>
H04N 21/2543			<p>Insert: The following <u>new</u> Informative references section.</p> <p>Informative references <i>Attention is drawn to the following place, which may be of interest for search</i></p> <p>Billing systems or methods specially adapted for commercial purposes G06Q 30/04</p> <p>Charging arrangements in data networks H04L 12/14</p>
H04N 21/4147	Limiting references	Arrangements for broadcast specially adapted for accumulation-type receivers H04H 20/40	<p>Delete: The following row from the Limiting references section.</p> <p>Arrangements for broadcast specially adapted for accumulation-type receivers H04H 20/40</p>
H04N 21/4147	Limiting references		<p>Insert: The following <u>new</u> rows in the Limiting references section.</p> <p>Arrangements for broadcast with accumulation-type receivers H04H 20/40</p>

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
H04N 21/441	Limiting references	<p>Limiting reference <i>This place does not cover</i></p> <p>Restricting access to computer systems by authenticating users using a predetermined code G06F 21/33</p>	<p>Delete: The entire Limiting references section.</p>
H04N 21/441			<p>Insert: The following <u>new</u> Informative references section.</p> <p>Informative references <i>Attention is drawn to the following place, which may be of interest for search</i></p> <p>Restricting access to computer systems by authenticating users using a predetermined code G06F 21/33</p> <p>Authentication in wireless communication networks H04W 12/06</p>
H04N 21/4415	Limiting references	<p>Authentication in wireless network security H04W 12/06</p> <p>Restricting access to computer systems by authenticating users using biometric data G06F 21/32</p>	<p>Delete: The following two rows from the Limiting references section.</p> <p>Authentication in wireless network security H04W 12/06</p> <p>Restricting access to computer systems by authenticating users using biometric data G06F 21/32</p>
H04N 21/4415			<p>Insert: The following <u>new</u> Informative references section.</p> <p>Informative references <i>Attention is drawn to the following place, which may be of interest for search</i></p> <p>Restricting access to computer systems by authenticating users using biometric data G06F 21/32</p>

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
			<p>Methods or arrangements for recognising patterns G06K 9/00</p> <p>Authentication in wireless network security H04W 12/06</p>
H04N 21/454	Limiting references	<p>Limiting reference <i>This place does not cover</i></p> <p>Filtering and selective blocking of messages over packet-switching networks H04L 51/12</p>	Delete: The entire Limiting references section.
H04N 21/454			<p>Insert: The following <u>new</u> Informative references section.</p> <p>Informative references <i>Attention is drawn to the following place, which may be of interest for search</i></p> <p>Filtering and selective blocking of messages over packet-switching networks H04L 51/12</p>
H04N 21/4545	Limiting references	<p>Limiting reference <i>This place does not cover</i></p> <p>Filtering for image enhancement or restoration G06T 5/00</p>	Delete: The entire Limiting references section.
H04N 21/4545			<p>Insert: The following <u>new</u> Application-oriented references section.</p> <p>Application-oriented references <i>Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system</i></p> <p>Filtering for image enhancement or restoration G06T 5/00</p>

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
H04N 21/47	Limiting references	Software engineering for user interfaces G06F 8/20	Delete: The following row from the Limiting references section. Software engineering for user interfaces G06F 8/20
H04N 21/47			Insert: The following <u>new</u> Informative references section. Informative references <i>Attention is drawn to the following place, which may be of interest for search</i> Interaction techniques for graphical user interfaces G06F 3/048 Software engineering for user interfaces G06F 8/20 Receiver circuitry for displaying additional information H04N 5/445
H04N 21/4782	Limiting references	Limiting reference <i>This place does not cover</i> Information retrieval from the Internet G06F 17/30861 Protocols for network applications involving the use of web-based technology H04L 29/0809	Delete: The entire Limiting references section.
H04N 21/4782			Insert: The following <u>new</u> Informative references section. Informative references <i>Attention is drawn to the following place, which may be of interest for search</i> Retrieval from the web G06F 16/95 Protocols for network applications involving the use of web-based technology H04L 29/0809

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
H04N 21/4784	Limiting references	Limiting reference <i>This place does not cover</i> Charging arrangements in data networks H04L 12/14	Delete: The entire Limiting references section.
H04N 21/4784	Informative references		Insert: The following <u>new</u> Informative references section. Informative references <i>Attention is drawn to the following place, which may be of interest for search</i> Payment schemes, architectures or protocols G06Q 20/00 E-commerce G06Q 30/00 Charging arrangements in data networks H04L 12/14
H04N 21/482	Limiting references	Systems specially adapted for using EPGs in broadcast systems H04H 60/72	Delete: The following row from the Limiting references table. Systems specially adapted for using EPGs in broadcast systems H04H 60/72
H04N 21/482	Limiting references		Insert: The following <u>new</u> row in the Limiting references table. Broadcast systems using EPGs H04H 60/72
H04N 21/6334			Insert: The following <u>new</u> Informative references section. Informative references <i>Attention is drawn to the following place, which may be of interest for search</i> Arrangements for secret or secure communication H04L 9/00

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NOTES:

- The table above is used for corrections or modifications to existing definitions, e.g. delete an entire definition or part thereof; propose new wording or modify wording of a section, change the symbol the definition is associated with, change or delete a reference symbol, etc.
- Do not delete (F) symbol definitions.

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3. REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	H04N 11/002	<administrative transfer to H04N 11/24>
D	H04N 11/004	<administrative transfer to H04N 11/26>
D	H04N 11/006	<administrative transfer to H04N 11/28>
D	H04N 11/008	<administrative transfer to H04N 11/30>

* C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed.

NOTES:

- Only C, D, F, and Q type entries are included in the table above.
- When multiple symbols are included in the “To” column, do not use ranges of symbols.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“To”) symbol, however it is required to specify “<no transfer>” in the “To” column for such cases.
- RCL is not needed for finalisation projects.

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4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H04N 11/24	H04N 11/24	NEW
H04N 11/26	H04N 11/24	NEW
H04N 11/28	H04N 11/24	NEW
H04N 11/30	H04N 11/24	NEW
H04N 11/002		DELETE
H04N 11/004		DELETE
H04N 11/006		DELETE
H04N 11/008		DELETE

*Action column:

- For an (N) or (Q) entry, provide an IPC symbol and complete the Action column with “NEW.”
- For an existing CPC main trunk entry or indexing entry where the existing IPC symbol needs to be changed, provide an updated IPC symbol and complete the Action column with “UPDATED.”
- For a (D) CPC entry or indexing entry complete the Action column with “DELETE.” IPC symbol does not need to be included in the IPC column.
- For an (N) 2000 series CPC entry which is positioned within the main trunk scheme (breakdown code) provide an IPC symbol and complete the action column with “NEW”.
- For an (N) 2000 series CPC entry positioned at the end of the CPC scheme (orthogonal code), with no IPC equivalent, complete the IPC column with “CPCONLY” and complete the action column with “NEW”.

NOTES:

- F symbols are not included in the CICL table above.
- E and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.