

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

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	13/02, 13/04, 13/0003, 13/0007, 13/0011, 13/0014, 13/0018, 13/0022, 13/0025, 13/0029, 13/0033, 13/0037, 13/004, 13/0044, 13/0048, 13/0051, 13/0062, 13/0066, 13/007, 13/0055, 13/0059, 13/0203, 13/0207, 13/021, 13/0214, 13/0217, 13/0221, 13/0225, 13/0228, 13/0232, 13/0235, 13/0239, 13/0242, 13/0246, 13/025, 13/0253, 13/0257, 13/026, 13/0264, 13/0267, 13/0271, 13/0275, 13/0278, 13/0282, 13/0285, 13/0289, 13/0292, 13/0296, 13/0402, 13/0404, 13/0406, 13/0409, 13/0411, 13/0413, 13/0415, 13/0418, 13/042, 13/0422, 13/0425, 13/0429, 13/0431, 13/0434, 13/0436, 13/0438, 13/044, 13/0443, 13/0445, 13/0447, 13/045, 13/0452, 13/0454, 13/0456, 13/0459, 13/0427, 13/0468, 13/047, 13/0472, 13/0475, 13/0477, 13/0479, 13/0481, 13/0484, 13/0486, 13/0488, 13/049, 13/0493, 13/0495, 13/0497, 2013/0461, 2013/0463, 2013/0465
Symbols New:	H04N	13/10, 13/106, 13/111, 13/117, 13/122, 13/125, 13/128, 13/133, 13/139, 13/144, 13/15, 13/156, 13/158, 13/161, 13/167, 13/172, 13/178, 13/183, 13/189, 13/194, 13/20, 13/204, 13/207, 13/211, 13/214, 13/218, 13/221, 13/225, 13/229, 13/232, 13/236, 13/239, 13/243, 13/246, 13/25, 13/254, 13/257, 13/261, 13/264, 13/266, 13/268, 13/271, 13/275, 13/279, 13/282, 13/286, 13/289, 13/293, 13/296, 13/30, 13/302, 13/305, 13/307, 13/31, 13/312, 13/315, 13/317, 13/32, 13/322, 13/324, 13/327, 13/332, 13/334, 13/337, 13/339, 13/341, 13/344, 13/346, 13/349, 13/351, 13/354, 13/356, 13/359, 13/361, 13/363, 13/365, 13/366, 13/368, 13/371, 13/373, 13/376, 13/378, 13/38, 13/383, 13/385, 13/388, 13/39, 13/393, 13/395, 13/398, 2013/40, 2013/403, 2013/405
Titles Changed:	H04N	5/2251, 5/247
	H04N	13/00
	H04N	21/236, 21/434
Warnings Deleted:	H04N	13/0285, 13/0289, 13/0452, 13/0454
Warnings New:	H04N	13/122, 13/125, 12/128, 13/20, 13/268, 13/211, 13/221, 13/229, 13/232, 13/239, 13/243, 13/30, 13/305, 13/307, 13/349, 13/363, 13/365, 13/385, 13/388, 13/39, 13/393, 13/395
Warnings Modified:	H04N	subclass
Notes Deleted:	H04N	13/0292, 13/0296, 13/0456, 13/0497

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

Notes Modified:	H04N	subclass
	H04N	13/00
DEFINITIONS:		
Definitions Deleted:	H04N	13/02, 13/04, 13/0003
Definitions Modified:	H04N	13/00

The following subclasses are also impacted by this project: G02C, G06F, and G06T

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)

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

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 (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	H04N5/2251	3	{Constructional details (arrangements comprising a plurality of cameras H04N5/247; stereoscopic cameras having a single image sensor H04N 13/207)}	
M	H04N 5/247	3	Arrangements of television cameras {(constructional details of cameras H04N 5/2251)}	
M	H04N13/00	0	Stereoscopic video systems; Multi-view video systems; Details thereof	
D	H04N13/0003	1	{Stereoscopic image signal coding, multiplexing, processing, recording or transmission (television signal bandwidth reduction H04N 19/00; image coding for general purpose image data processing G06T 9/00; transformation of the video signal for recording, including multiplexing of another television signal H04N 5/9205; for colour signals, H04N 9/8227; selective content distribution, e.g. interactive television, VOD H04N 21/00; assembling of a multiplex stream, e.g. transport stream, by combining a video stream with other content or additional data, remultiplexing of multiplex streams, insertion of stuffing bits into the multiplex stream, assembling of a packetized elementary stream H04N 21/236; disassembling of a multiplex stream, e.g. demultiplexing audio and video streams or extraction of additional data from a video stream, remultiplexing of multiplex streams, extraction or processing of service information at client side, disassembling of packetized elementary stream H04N 21/434)}	<administrative transfer to H04N13/10>
D	H04N13/0007	2	{Processing stereoscopic image signals (H04N 19/597, H04N 13/004 take precedence; image processing as such G06T)}	<administrative transfer to H04N13/106>
D	H04N13/0011	3	{Transformation of stereoscopic image signals corresponding to virtual viewpoints, e.g. spatial image interpolation}	<administrative transfer to H04N13/111>
D	H04N13/0014	4	{the virtual viewpoint location being selected by the observer, e.g. observer tracking with look around effect (H04N 13/0278 takes precedence)}	<administrative transfer to H04N13/117>

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
D	H04N13/0018	3	{Improving the 3D impression of a stereoscopic image by modifying the image content, e.g. with filtering or addition of monoscopic depth cues}	<administrative transfer to H04N13/122>
D	H04N13/0022	3	{Aspects relating to depth or disparity adjustment}	<administrative transfer to H04N13/128>
D	H04N13/0025	3	{Equalizing the characteristics of different image components in stereoscopic images, e.g. average brightness or colour balance}	<administrative transfer to H04N13/133>
D	H04N13/0029	3	{Format conversion of stereoscopic images, e.g. frame-rate or size (standards conversion <u>per se</u> H04N 7/01; reformatting operations at client side of video signals for household redistribution, storage or real-time display H04N 21/4402; reformatting operations at server side of video signals for distribution or compliance with end-user requests or end-user device requirements H04N 21/2343)}	<administrative transfer to H04N13/139>
D	H04N13/0033	3	{Aspects relating to flicker and/or eyestrain reduction}	<administrative transfer to H04N13/144>
D	H04N13/0037	2	{Colour aspects (processing of colour signals <u>per se</u> H04N 9/64)}	<administrative transfer to H04N13/15>
D	H04N13/004	2	{Mixing stereoscopic image signals}	<administrative transfer to H04N13/156>
D	H04N13/0044	2	{Switching stereoscopic image signals}	<administrative transfer to H04N13/158>
D	H04N 13/0048		{Encoding, multiplexing or demultiplexing different image signal components in stereoscopic image signals (H04N 19/597 takes precedence; assembling of a multiplex stream, e.g. transport stream, by combining a video stream with other content or additional data, remultiplexing of multiplex streams, insertion of stuffing bits into the multiplex stream, assembling of a packetized elementary stream H04N 21/236; disassembling of a multiplex stream, e.g. demultiplexing audio and video streams or extraction of additional data from a video stream, remultiplexing of multiplex streams, extraction or processing of service information at client side, disassembling of packetized elementary stream H04N 21/434; demultiplexing of several video streams H04N 21/4347)}	<administrative transfer to H04N13/161>

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in curly brackets**	Transferred to#
D	H04N 13/0051	2	{Synchronisation or controlling aspects (synchronization processes at server side, e.g. processing of program clock references H04N 21/242; content synchronization processes at client side H04N 21/4302; control signals issued by server directed to the network components or client H04N 21/633; control signals issued by the network directed to the server or the client H04N 21/64746; control signals issued by the client directed to the server or network components H04N 21/637; transmission of management data between client and server H04N 21/65)}	<administrative transfer to H04N13/167>
D	H04N 13/0055	2	{Recording or reproducing stereoscopic image signals}	<administrative transfer to H04N13/189>
D	H04N 13/0059	2	{Transmission of stereoscopic image signals (selective content distribution, e.g. interactive television, VOD H04N 21/00; assembling of a multiplex stream, e.g. transport stream, by combining a video stream with other content or additional data, remultiplexing of multiplex streams, insertion of stuffing bits into the multiplex stream, assembling of a packetized elementary stream H04N 21/236; disassembling of a multiplex stream, e.g. demultiplexing audio and video streams or extraction of additional data from a video stream, remultiplexing of multiplex streams, extraction or processing of service information at client side, disassembling of packetized elementary stream H04N 21/434; interfacing the downstream path of the transmission network for selective content distribution at server side H04N 21/238; interfacing the downstream path of the transmission network originating from a server for selective content distribution at client side H04N 21/438)}	<administrative transfer to H04N13/194>
D	H04N 13/0062	2	{the image signal comprising non-image signal components, e.g. metadata, headers, format information or subtitles (multiplexing of additional data and video streams H04N 21/23614; demultiplexing of additional data and video streams H04N 21/4348)}	<administrative transfer to H04N13/172>
D	H04N 13/0066	3	{metadata (generation or processing, within selective content distribution, of descriptive data, e.g. content descriptors H04N 21/84)}	<administrative transfer to H04N13/178>

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in curly brackets**	Transferred to#
D	H04N 13/007	3	{subtitles or other OSD information, e.g. menu (data services within selective content distribution, e.g. news ticker H04N 21/488; data services for displaying subtitles H04N 21/4884)}	<administrative transfer to H04N13/183>
D	H04N 13/02	1	Picture signal generators	<administrative transfer to H04N13/20>
D	H04N 13/0203	2	{using a stereoscopic image camera (endoscopes with stereoscopic vision A61B1/00193; stereoscopic photography G03B35/00)}	<administrative transfer to H04N13/204>
D	H04N 13/0207	3	{involving a single 2D image pickup sensor}	<administrative transfer to H04N13/207>
D	H04N 13/021	4	{using temporal multiplexing, i.e. alternatively capturing several geometrical viewpoints separated in time (H04N13/0221 takes precedence)}	<administrative transfer to H04N13/211>
D	H04N 13/0214	4	{using spectral multiplexing, i.e. simultaneously capturing several geometrical viewpoints separated by different spectral characteristics}	<administrative transfer to H04N13/214>
D	H04N 13/0217	4	{using spatial multiplexing, i.e. simultaneously capturing several geometrical viewpoints on different parts of the image pickup sensor}	<administrative transfer to H04N13/218>
D	H04N 13/0221	4	{using the relative movement between camera and object}	<administrative transfer to H04N13/221>
D	H04N 13/0225	4	{having a parallax barrier}	<administrative transfer to H04N13/225>
D	H04N 13/0228	4	{having a lenticular screen (H04N13/0232 takes precedence)}	<administrative transfer to H04N13/229>
D	H04N 13/0232	4	{having a fly-eye lenticular screen}	<administrative transfer to H04N13/232>
D	H04N 13/0235	4	{having a varifocal lens or mirror}	<administrative transfer to H04N13/236>
D	H04N 13/0239	3	{having two 2D image pickup sensors representing the interocular distance}	<administrative transfer to H04N13/239>
D	H04N 13/0242	3	{having more than two 2D image pickup sensors}	<administrative transfer to H04N13/243>
D	H04N 13/0246	3	{Calibration aspects relating to the control of a stereoscopic camera (processing of captured images to determine and compensate stereo camera misalignment, e.g. stereo camera calibration G06T7/85)}	<administrative transfer to H04N13/246>

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in curly brackets**	Transferred to#
D	H04N 13/025	3	{having several image pickup sensors with different characteristics other than location or field of view, e.g. different resolution, colour pickup characteristic or additional depth information or, where the image signals of one image pickup sensor are used to control the characteristics of at least one other image pickup sensor}	<administrative transfer to H04N13/25>
D	H04N 13/0253	3	{in combination with an electromagnetic radiation source for illuminating the subject}	<administrative transfer to H04N13/254>
D	H04N 13/0257	2	{Colour aspects (processing of color signals <u>per se</u> H04N9/64)}	<administrative transfer to H04N13/257>
D	H04N 13/026	2	{with monoscopic to stereoscopic image conversion (H04N13/0221 takes precedence)}	<administrative transfer to H04N13/261>
D	H04N 13/0264	3	{using the relative movement of objects in two video frames or fields}	<administrative transfer to H04N13/264>
D	H04N 13/0267	3	{by scanning a film}	<administrative transfer to H04N13/266>
D	H04N 13/0271	2	{wherein the generated image signal comprises a depth map or a disparity map (depth map generation as such G06T7/593)}	<administrative transfer to H04N13/271>
D	H04N 13/0275	2	{from a 3D object model, e.g. computer generated stereoscopic image signals}	<administrative transfer to H04N13/275>
D	H04N 13/0278	3	{the virtual viewpoint location being selected by the observer, e.g. observer tracking}	<administrative transfer to H04N13/279>
D	H04N 13/0282	2	{for generating stereoscopic image signals corresponding to more than two geometrical viewpoints, e.g. multiview systems}	<administrative transfer to H04N13/282>
D	H04N 13/0285	2	{having a monoscopic mode and a separate stereoscopic mode}	<administrative transfer to H04N13/286>
D	H04N 13/0289	3	{details relating to the switching between said modes}	<administrative transfer to H04N13/289>
D	H04N 13/0292	2	{generating mixed monoscopic/stereoscopic images, e.g. a stereoscopic image overlay window in a monoscopic image background}	<administrative transfer to H04N13/293>
D	H04N 13/0296	2	{Synchronisation or controlling aspects (synchronization processes at server side, e.g. processing of program clock references H04N21/242; content synchronization processes at client side H04N21/4302)}	<administrative transfer to H04N13/296>
D	H04N 13/04	1	Picture reproducers {(optical systems for producing stereoscopic or other three dimensional effects G02B27/22)}	<administrative transfer to H04N13/30>
D	H04N 13/0402	2	{using an autostereoscopic display, i.e. viewing by the user without the aid of special glasses}	<administrative transfer to H04N13/302>

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in curly brackets**	Transferred to#
D	H04N 13/0404	3	{using a lenticular screen (H04N13/0406 takes precedence)}	<administrative transfer to H04N13/305>
D	H04N 13/0406	3	{using a fly-eye lenticular screen}	<administrative transfer to H04N13/307>
D	H04N 13/0409	3	{using a parallax barrier, e.g. spatial light modulator}	<administrative transfer to H04N13/31>
D	H04N 13/0411	4	{the parallax barrier being placed behind the spatial light modulator, e.g. between backlight and SLM}	<administrative transfer to H04N13/312>
D	H04N 13/0413	4	{the parallax barrier being time-variant}	<administrative transfer to H04N13/315>
D	H04N 13/0415	3	{with slanted parallax optics}	<administrative transfer to H04N13/317>
D	H04N 13/0418	3	{using an array of controllable light sources or a moving aperture or light source}	<administrative transfer to H04N13/32>
D	H04N 13/042	3	{using a varifocal lens or mirror}	<administrative transfer to H04N13/322>
D	H04N 13/0422	2	{Colour aspects (processing of colour signals <u>per se</u> H04N9/64)}	<administrative transfer to H04N13/324>
D	H04N 13/0425	2	{Calibration aspects}	<administrative transfer to H04N13/327>
D	H04N 13/0427	2	{using a digital micromirror device [DMD]}	<administrative transfer to H04N13/365>
D	H04N 13/0429	2	{for viewing by the user with the aid of special glasses or head mounted displays [HMD], i.e. stereoscopic displaying (spectacles or goggles insofar as they have the same features as spectacles G02C)}	<administrative transfer to H04N13/332>
D	H04N 13/0431	3	{with spectral multiplexing, i.e. simultaneously displaying left and right images separated using glasses with different spectral characteristics, e.g. anaglyph method or Pulfrich method}	<administrative transfer to H04N13/334>
D	H04N 13/0434	3	{with polarisation multiplexing, i.e. simultaneously displaying left and right images separated using glasses with different polarising characteristics}	<administrative transfer to H04N13/337>
D	H04N 13/0436	3	{with spatial multiplexing, i.e. simultaneously displaying left and right images on different parts of the display screen and using glasses to optically recombine the stereoscopic image, e.g. with prisms or mirrors (H04N13/0434 takes precedence)}	<administrative transfer to H04N13/339>
D	H04N 13/0438	3	{with temporal multiplexing, i.e. alternatively displaying left and right images separated in time and using glasses to alternatively block the right and left eye}	<administrative transfer to H04N13/341>
D	H04N 13/044	3	{with head mounted left-right displays (optical head mounted displays G02B27/017)}	<administrative transfer to H04N13/344>

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
D	H04N 13/0443	2	{using a half transparent mirror or prism}	<administrative transfer to H04N13/346>
D	H04N 13/0445	2	{for displaying more than two geometrical viewpoints without observer tracking, i.e. multiview displays}	<administrative transfer to H04N13/349>
D	H04N 13/0447	3	{simultaneously}	<administrative transfer to H04N13/351>
D	H04N 13/045	3	{sequentially}	<administrative transfer to H04N13/354>
D	H04N 13/0452	2	{having a monoscopic mode and a separate stereoscopic mode}	<administrative transfer to H04N13/356>
D	H04N 13/0454	3	{details of mode switching}	<administrative transfer to H04N13/359>
D	H04N 13/0456	2	{generating mixed monoscopic or stereoscopic images, e.g. a stereoscopic image overlay window on a monoscopic image background}	<administrative transfer to H04N13/361>
D	H04N 13/0459	2	{using an image projection screen (H04N13/0493, H04N13/0495 take precedence; projection devices per se H04N9/31)}	<administrative transfer to H04N13/363>
D	H04N2013/0461	2	{Privacy aspects, i.e. devices showing different images to different viewers, the images not being viewpoints of the same scene (not used, see subgroups)}	<administrative transfer to H04N 2013/40>
D	H04N2013/0463	3	{the images being monoscopic}	<administrative transfer to H04N 2013/403>
D	H04N2013/0465	3	{the images being stereoscopic or three dimensional}	<administrative transfer to H04N 2013/405>
D	H04N13/0468	2	{using observer tracking (computer input or output arrangements in interaction with the human body G06F3/011)}	<administrative transfer to H04N13/366>
D	H04N13/047	3	{for several observers}	<administrative transfer to H04N13/368>
D	H04N13/0472	3	{for tracking with variable interocular distance or rotational head movements around the vertical axes}	<administrative transfer to H04N13/371>
D	H04N13/0475	3	{for tracking forward-backward translational head movements, i.e. longitudinal movements}	<administrative transfer to H04N13/373>
D	H04N13/0477	3	{for tracking left-right translational head movements, i.e. lateral movements}	<administrative transfer to H04N13/376>
D	H04N13/0479	3	{for tracking rotational head movements in a plane parallel to the screen}	administrative transfer to H04N13/378>
D	H04N13/0481	3	{for tracking vertical translational head movements}	<administrative transfer to H04N13/38>
D	H04N13/0484	3	{for tracking with gaze detection, i.e. detecting the lines of sight of the observers eyes}	<administrative transfer to H04N13/383>

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
D	H04N13/0486	2	{alternating rapidly the location of the left-right image components on the display screen}	administrative transfer to H04N13/315 >
D	H04N13/0488	2	{Volumetric display, i.e. systems where the image is built up from picture elements distributed over a volume}	<administrative transfer to H04N13/388>
D	H04N13/049	3	{the picture elements emitting light where a pair of light beams intersect in a transparent material}	<administrative transfer to H04N13/39>
D	H04N13/0493	3	{the volume being generated by a moving, e.g. vibrating or rotating, surface}	<administrative transfer to H04N13/393>
D	H04N13/0495	3	{with depth sampling, i.e. the volume being constructed from a stack or sequence of 2D image planes}	<administrative transfer to H04N13/395>
D	H04N13/0497	2	{Synchronisation or controlling aspects (synchronization processes at server side, e.g. processing of program clock references H04N21/242; content synchronization processes at client side H04N21/4302)}	<administrative transfer to H04N13/398>
U	H04N 2013/0096	2	{Synchronisation or controlling aspects}	
N	H04N13/10	1	Processing, recording or transmission of stereoscopic or multi-view image signals	
N	H04N13/106	2	Processing image signals (for multi-view video sequence encoding H04N19/597)	
N	H04N13/111	3	Transformation of image signals corresponding to virtual viewpoints, e.g. spatial image interpolation	
N	H04N13/117	4	the virtual viewpoint locations being selected by the viewers or determined by viewer tracking	
Q	H04N13/122	3	Improving the 3D impression of stereoscopic images by modifying image signal contents, e.g. by filtering or adding monoscopic depth cues (H04N13/128 takes precedence)	H04N13/122, H04N13/125, H04N13/128
N	H04N13/125	4	for crosstalk reduction	
N	H04N13/128	3	Adjusting depth or disparity	
N	H04N13/133	3	Equalising the characteristics of different image components, e.g. their average brightness or colour balance	
N	H04N13/139	3	Format conversion, e.g. of frame-rate or size	
N	H04N13/144	3	for flicker reduction	
N	H04N13/15	3	for colour aspects of image signals	
N	H04N13/156	3	Mixing image signals	
N	H04N13/158	3	{Switching image signals}	
N	H04N13/161	3	Encoding, multiplexing or demultiplexing different image signal components (for multi-view video sequence encoding H04N19/597)	
N	H04N13/167	3	Synchronising or controlling image signals	

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
N	H04N13/172	3	image signals comprising non-image signal components, e.g. headers or format information	
N	H04N13/178	4	Metadata, e.g. disparity information	
N	H04N13/183	4	On-screen display [OSD] information, e.g. subtitles or menus	
N	H04N13/189	2	Recording image signals; Reproducing recorded image signals	
N	H04N13/194	2	Transmission of image signals	
Q	H04N13/20	1	Image signal generators	H04N 13/20, H04N 13/268
N	H04N13/204	2	using stereoscopic image cameras (stereoscopic photography G03B35/00)	
N	H04N13/207	3	using a single 2D image sensor	
N	H04N13/211	4	using temporal multiplexing	
N	H04N13/214	4	using spectral multiplexing	
N	H04N13/218	4	using spatial multiplexing	
Q	H04N13/221	4	using the relative movement between cameras and objects	H04N13/221, H04N13/211
N	H04N13/225	4	using parallax barriers	
N	H04N13/229	4	using lenticular lenses, e.g. arrangements of cylindrical lenses	
Q	H04N13/232	4	using fly-eye lenses, e.g. arrangements of circular lenses	H04N13/229, H04N13/232
N	H04N13/236	4	using varifocal lenses or mirrors	
Q	H04N13/239	3	using two 2D image sensors having a relative position equal to or related to the interocular distance (H04N13/243 takes precedence)	H04N13/239, H04N 13/243
N	H04N13/243	3	using three or more 2D image sensors	
N	H04N13/246	3	Calibration of cameras	
N	H04N13/25	3	using two or more image sensors with different characteristics other than in their location or field of view, e.g. having different resolutions or colour pickup characteristics; using image signals from one sensor to control the characteristics of another sensor	
N	H04N13/254	3	in combination with electromagnetic radiation sources for illuminating objects	
N	H04N13/257	2	Colour aspects	
N	H04N13/261	2	with monoscopic-to-stereoscopic image conversion	
N	H04N13/264	3	using the relative movement of objects in two video frames or fields	
N	H04N13/266	3	{by scanning a film}	
N	H04N13/268	3	based on depth image-based rendering [DIBR]	
N	H04N13/271	2	wherein the generated image signals comprise depth maps or disparity maps	

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in curly brackets**	Transferred to#
N	H04N13/275	2	from 3D object models, e.g. computer-generated stereoscopic image signals	
N	H04N13/279	3	the virtual viewpoint locations being selected by the viewers or determined by tracking	
N	H04N13/282	2	for generating image signals corresponding to three or more geometrical viewpoints, e.g. multi-view systems	
N	H04N13/286	2	having separate monoscopic and stereoscopic modes	
N	H04N13/289	3	Switching between monoscopic and stereoscopic modes	
N	H04N13/293	2	Generating mixed stereoscopic images; Generating mixed monoscopic and stereoscopic images, e.g. a stereoscopic image overlay window on a monoscopic image background	
N	H04N13/296	2	Synchronisation thereof; Control thereof	
Q	H04N13/30	1	Image reproducers (optical systems for producing stereoscopic or other three-dimensional effects G02B27/22)	H04N 13/30, H04N 13/365, H04N 13/385
N	H04N13/302	2	for viewing without the aid of special glasses, i.e. using autostereoscopic displays	
N	H04N13/305	3	using lenticular lenses, e.g. arrangements of cylindrical lenses	
Q	H04N13/307	3	using fly-eye lenses, e.g. arrangements of circular lenses	H04N13/305, H04N13/307
N	H04N13/31	3	using parallax barriers	
N	H04N13/312	4	the parallax barriers being placed behind the display panel, e.g. between backlight and spatial light modulator [SLM]	
N	H04N13/315	4	the parallax barriers being time-variant	
N	H04N13/317	3	using slanted parallax optics	
N	H04N13/32	3	using arrays of controllable light sources; using moving apertures or moving light sources	
N	H04N13/322	3	using varifocal lenses or mirrors	
N	H04N13/324	2	Colour aspects	
N	H04N13/327	2	Calibration thereof	
N	H04N13/332	2	Displays for viewing with the aid of special glasses or head-mounted displays [HMD]	
N	H04N13/334	3	using spectral multiplexing	
N	H04N13/337	3	using polarisation multiplexing	
N	H04N13/339	3	using spatial multiplexing (H04N13/337 takes precedence)	
N	H04N13/341	3	using temporal multiplexing	
N	H04N13/344	3	with head-mounted left-right displays	
N	H04N13/346	2	using prisms or semi-transparent mirrors	

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
Q	H04N13/349	2	Multi-view displays for displaying three or more geometrical viewpoints without viewer tracking (for viewing without the aid of special glasses using fly-eye lenses H04N13/307)	H04N13/307, H04N13/349
N	H04N13/351	3	for displaying simultaneously	
N	H04N13/354	3	for displaying sequentially	
N	H04N13/356	2	having separate monoscopic and stereoscopic modes	
N	H04N13/359	3	Switching between monoscopic and stereoscopic modes	
N	H04N13/361	2	Reproducing mixed stereoscopic images; Reproducing mixed monoscopic and stereoscopic images, e.g. a stereoscopic image overlay window on a monoscopic image background	
Q	H04N13/363	2	using image projection screens (volumetric display H04N 13/388)	H04N13/363, H04N13/388, H04N13/39
N	H04N13/365	2	using digital micromirror devices [DMD]	
N	H04N13/366	2	using viewer tracking	
N	H04N13/368	3	for two or more viewers	
N	H04N13/371	3	for tracking viewers with different interocular distances; for tracking rotational head movements around the vertical axis	
N	H04N13/373	3	for tracking forward-backward translational head movements, i.e. longitudinal movements	
N	H04N13/376	3	for tracking left-right translational head movements, i.e. lateral movements	
N	H04N13/378	3	for tracking rotational head movements around an axis perpendicular to the screen	
N	H04N13/38	3	for tracking vertical translational head movements	
N	H04N13/383	3	for tracking with gaze detection, i.e. detecting the lines of sight of the viewer's eyes	
N	H04N13/385	2	alternating rapidly the location of the left-right image components on the display screens (for viewing without the aid of special glasses using time variant parallax barriers H04N13/315; displays for viewing with the aid of special glasses or head-mounted displays using temporal multiplexing H04N13/341)	
N	H04N13/388	2	Volumetric displays, i.e. systems where the image is built up from picture elements distributed through a volume	
N	H04N13/39	3	the picture elements emitting light at places where a pair of light beams intersect in a transparent material	

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
Q	H04N13/393	3	the volume being generated by a moving, e.g. vibrating or rotating, surface	H04N13/363, H04N13/388, H04N13/39, H04N13/393
Q	H04N13/395	3	with depth sampling, i.e. the volume being constructed from a stack or sequence of 2D image planes	H04N13/363, H04N13/388, H04N13/39, H04N13/395
N	H04N13/398	2	Synchronisation thereof; Control thereof	
N	H04N 2013/40	2	{Privacy aspects, i.e. devices showing different images to different viewers, the images not being viewpoints of the same scene}	
N	H04N 2013/403	3	{the images being monoscopic}	
N	H04N 2013/405	3	{the images being stereoscopic or three dimensional}	
M	H04N21/236	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 Uniform Resource Locator [URL] 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	H04N21/434	3	Disassembling of a multiplex stream, e.g. demultiplexing audio and video streams, extraction of additional data from a video stream; Remultiplexing of multiplex streams; Extraction or processing of SI; Disassembling of packetised elementary stream {(demultiplexing of data packets for data networks, e.g. RTP/UDP H04L65/00)}	

*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).

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

- 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”.

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

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	The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:	Delete the existing text. Insert the following replacement text: The following IPC groups are not in the CPC scheme. Subject matter for these IPC groups is classified in the following CPC groups:
M	H04N	H04N 5/31 covered by G01S 7/52, G01S 15/89	Delete the <u>first</u> statement in the warning: H04N 5/31 covered by G01S 7/52, G01S 15/89
M	H04N	H04N15/00 covered by H04N13/00	Delete the <u>last</u> statement in the warning: H04N15/00 covered by H04N13/00
D	H04N 13/0285	this group is not complete, pending a reorganization. Documents classified before 6/10/2011 which, in the present scheme, should be classified in this group can be found in H04N13/0292.	
D	H04N 13/0289	this group is not complete, pending a reorganization. Documents classified before 6/10/2011 which, in the present scheme, should be classified in this group can be found in H04N13/0292.	
D	H04N 13/0452	warning: this group is not complete, pending a reorganization. Documents classified before 6/10/2011 which, in the present scheme, should be classified in this group are provisionally classified in H04N13/0456.	
D	H04N 13/0454	this group is not complete, pending a reorganization. Documents classified before 6/10/2011 which, in the present scheme, should be classified in this group are provisionally classified in H04N13/0456.	

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	H04N 13/122		Group H04N 13/122 is impacted by reclassification into groups H04N 13/125 and H04N 13/128. Groups H04N 13/122, H04N 13/125, and H04N 13/128 should be considered in order to perform a complete search.
N	H04N 13/125		Group H04N 13/125 is incomplete pending reclassification of documents from group H04N 13/122. Groups H04N 13/122 and H04N 13/125 should be considered in order to perform a complete search.
N	H04N 13/128		Group H04N 13/128 is incomplete pending reclassification of documents from group H04N 13/122. Groups H04N 13/122 and H04N 13/128 should be considered in order to perform a complete search.
N	H04N 13/20		Group H04N 13/20 is impacted by reclassification into group H04N 13/268. Groups H04N 13/20 and H04N 13/268 should be considered in order to perform a complete search.
N	H04N 13/211		Group H04N 13/211 is incomplete pending reclassification of documents from group H04N 13/221. Groups H04N 13/221 and H04N 13/211 should be considered in order to perform a complete search.
N	H04N 13/221		Group H04N 13/221 is impacted by reclassification into group H04N 13/211. Groups H04N 13/221 and H04N 13/211 should be considered in order to perform a complete search.
N	H04N 13/229		Group H04N 13/229 is incomplete pending reclassification of documents from group H04N 13/232. Groups H04N 13/232 and H04N 13/229 should be considered in order to perform a complete search.
N	H04N 13/232		Group H04N 13/232 is impacted by reclassification into group H04N 13/229. Groups H04N 13/232 and H04N 13/229 should be considered in order to perform a complete search.
N	H04N 13/239		Group H04N 13/239 is impacted by reclassification into group H04N 13/243. Groups H04N 13/239 and H04N 13/243 should be considered in order to perform a complete search.

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	H04N 13/243		Group H04N 13/243 is incomplete pending reclassification of documents from group H04N 13/239. Groups H04N 13/239 and H04N 13/243 should be considered in order to perform a complete search.
N	H04N 13/268		Group H04N 13/268 is incomplete pending reclassification of documents from group H04N 13/20. Groups H04N 13/20 and H04N 13/268 should be considered in order to perform a complete search.
N	H04N 13/30		Group H04N 13/30 is impacted by reclassification into groups H04N 13/365 and H04N 13/385. All Groups listed in this Warning should be considered in order to perform a complete search.
N	H04N 13/305		Group H04N 13/305 is incomplete pending reclassification of documents from group H04N 13/307. Groups H04N 13/307 and H04N 13/305 should be considered in order to perform a complete search.
N	H04N 13/307		Group H04N 13/307 is incomplete pending reclassification of documents from group H04N 13/349. Group H04N 13/307 is also impacted by reclassification into group H04N 13/305. Groups H04N 13/349, H04N 13/307 and H04N 13/305 should be considered in order to perform a complete search.
N	H04N 13/349		Group H04N 13/349 is impacted by reclassification into group H04N 13/307. Groups H04N 13/349 and H04N 13/307 should be considered in order to perform a complete search.
N	H04N 13/363		Group H04N 13/363 is incomplete pending reclassification of documents from group H04N 13/393 and H04N 13/395. Group H04N 13/363 is also impacted by reclassification into groups H04N 13/388 and H04N 13/39. All groups listed in this Warning should be considered in order to perform a complete search.

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	H04N 13/365		Group H04N 13/365 is incomplete pending reclassification of documents from group H04N 13/30. Groups H04N 13/30 and H04N 13/365 should be considered in order to perform a complete search.
N	H04N 13/385		Group H04N 13/385 is incomplete pending reclassification of documents from group H04N 13/30. Groups H04N 13/30 and H04N 13/385 should be considered in order to perform a complete search.
N	H04N 13/388		Group H04N 13/388 is incomplete pending reclassification of documents from groups H04N 13/363, H04N 13/393, and H04N 13/395. All groups listed in this Warning should be considered in order to perform a complete search.
N	H04N 13/39		Group H04N 13/39 is incomplete pending reclassification of documents from groups H04N 13/363, H04N 13/393, and H04N 13/395. All groups listed in this Warning should be considered in order to perform a complete search.
N	H04N 13/393		Group H04N 13/393 is impacted by reclassification into groups H04N 13/363, H04N 13/388 and H04N 13/39. All groups listed in this warning should be considered in order to perform a complete search.
N	H04N 13/395		Group H04N 13/395 is impacted by reclassification into groups H04N 13/363, H04N 13/388 and H04N 13/39. All groups listed in this warning should be considered in order to perform a complete search.

*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.

DATE: MAY 1, 2018

PROJECT RP0489

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>
M	H04N	<p>1. This subclass <u>covers</u>:</p> <ul style="list-style-type: none"> • {generation, recording or} transmission of pictures or their transient or permanent reproduction either locally or remotely {and the corresponding electronic image capture and reproduction process employing image representative electric signals,} by methods or arrangements {involving at least one of} the following steps: <ul style="list-style-type: none"> a. the {electronic acquisition or} scanning of a picture {or scene} , 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 {, e.g. by reading an electronic solid-state image sensor [SSIS] pickup device (e.g. CCD or CMOS image sensor) as electronic image sensor converting optical image information into said electrical signals;} b. the reproduction of the whole picture-containing area {or scene} 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 by converting an electric image signal into light e.g. with an electronic spatial light modulator; <ul style="list-style-type: none"> • { concerning cameras or projectors: <ul style="list-style-type: none"> • video cameras or TV cameras, e.g. in studios, CCTV cameras, surveillance cameras, camcorders; constructional or mechanical details related to such cameras even when not peculiar to the presence of an electronic image sensor [EIS] e.g. housings; • arrangements or methods for image capture using an EIS or image projection using an electronic spatial light modulator [ESLM], i.e. <ul style="list-style-type: none"> i. sensor read-out; ii. processing of electrical image signals from the EIS or provided to the 	<p>Delete ALL of the text in Note 1.</p> <p>Insert the following <u>replacement</u> text for Note 1; format as shown below:</p> <p>1. This subclass <u>covers</u>:</p> <ul style="list-style-type: none"> • transmission of pictures or their transient or permanent reproduction either locally or remotely {and the corresponding electronic image capture and reproduction process employing image representative electric signals}, by methods involving both of {or at least one of} the following steps: <ul style="list-style-type: none"> step (a): the {electronic acquisition or} scanning of a picture {or scene}, 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 {, e.g. by reading an electronic solid-state image sensor [SSIS] pickup device, e.g. CCD or CMOS image sensor, as electronic image sensor converting optical image information into said electrical signals}; step (b): the reproduction of the whole picture-containing area {or scene} 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, maps, charts, photographs other than cinematograph films;

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		<p>ESLM for the generation of respective camera or projector control signals,</p> <ul style="list-style-type: none"> • for controlling the EIS or its read-out for e.g. exposure, scene selection for auto focussing, or electronic image enhancement or processing of the image signals captured by the EIS, e.g. white balance, electronic motion blur correction, noise suppression H04N5/00, • for controlling the ESLM, e.g. control of the light source based on electronic image signal, light conditioning specially adapted for the ESLM, or • for controlling other camera functions, e.g. exposure, shaking by influencing optical parts of the camera (generation of control signals for focussing for optical elements G02B7/28; using such signals to control focus of particular apparatus, <u>see</u> the subclasses for the apparatus, e.g. G03B, G03F, H04N); • electronic image data storage (data storage in general G11B, G11C); • in-camera image processing e.g. correction of lens distortion, defect pixel correction, noise suppression, removal of motion blur, improving of the dynamic range of the image, in-projector image processing, electronic image data manipulation, e.g. during display or projection (image processing <u>per se</u> G06T); • electronic viewfinders e.g. control of image pickup devices based on information indicated by the electronic viewfinder displaying an image signal generated by the EIS ; • electrical or mechanical aspects of camera modules using electronic image sensors, as well as related constructional details as in webcams or mobile phones (<u>see</u>H04M1/0264 for mounting structure in mobile phones); • details of projectors peculiar to the use of an ESLM, e.g. dichroic or polarizing arrangements specially adapted for the ESLM (dichroic or polarizing arrangements in general G02B, G03B); • remote control of cameras or projectors peculiar to the EIS or the ESLM, 	<ul style="list-style-type: none"> • circuits specially designed for dealing with pictorial communication signals, e.g. television signals, as distinct from merely signals of a particular frequency range.

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		<p>e.g. affecting their operation, or based on a generated image signal;</p> <ul style="list-style-type: none"> • adaptations peculiar to the use of a EIS or ESLM and/or the display, the transmission, recording or other use of electrical image data and related circuitry, e.g. mounting of EIS or ESLM, integrated cleaning system for the EIS, dust mapping, cooling of the EIS, controlling the operation of the EIS by external input signals; • systems or apparatus wherein the inventive contribution lies in the interaction between features covered in Notes 1 above, concerning cameras and projectors, when interacting with those covered in Note 1 of G03B, e.g. switch-over between electronic motion-blur correction of electronic viewfinder during focussing and optical motion-blur correction of the lens during exposure, electronic motion blur correction of the electronic image sensor based on output signals of additional sensor, or interaction between mechanical shutter and electronic control of the charge accumulation period of the EIS; } • (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. 	
M	H04N	<p>2. This subclass <u>does not cover</u>:</p> <ul style="list-style-type: none"> • circuits or other parts of systems which form the subject of other subclasses, which are covered by the corresponding subclasses, e.g. H03C, H03F, H03J, H04B, H04H; • 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 	<p>In Note 2, update only the text in the following <u>four</u> paragraphs.</p> <p>Delete in the existing 3rd paragraph the word: “of” after the words: “step (a)”. (<i>Correction shown in updated paragraph below.</i>)</p> <ul style="list-style-type: none"> • 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, which are covered by class G03;

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		<p>information, which are covered by subclass G06K;</p> <ul style="list-style-type: none"> • 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) of and employed to modify the operation of the system, e.g. to control exposure, which are covered by class G03; • 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 abovementioned step (a), e.g. by cams, punched card or tape, coded control signal, or other means, which are covered by the subclass for the application, e.g. G01D, G06T, H04L; • systems for the reproduction to the above-mentioned step (b) of pictures comprising alphanumeric or like character forms and involving the generation according to the abovementioned 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, which are covered by the subclass for the application, e.g. B41B, G06K, subject to those applications which are covered by this subclass; • printing, duplication or marking methods, or materials or processes therefor, which are covered by the relevant subclasses, e.g. B41C, B41M, G03C, G03F, G03G; • {apparatus or methods for taking photographs using light sensitive film for image capture, apparatus/methods for printing, for projecting or viewing images using film stock, photographic film or slides by optical means, e.g. mounting of optical elements, flashes, and their related controls, e.g. exposure, focus, (opto-)mechanical motion blur (anti-shake), cooling, beam shaping;} • {aspects of apparatus or methods for taking photographs using an electronic image sensor [EIS] for image capture, insofar as they correspond to those of said 	<p><u>Insert</u> in the existing 4th paragraph a hyphen in the word: “abovementioned”. (<i>Correction shown in updated paragraph below.</i>)</p> <ul style="list-style-type: none"> • 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, which are covered by the subclass for the application, e.g. G01D, G06T, H04L; <p><u>Insert</u> in the existing 5th paragraph the word “according” <u>after</u> the word “reproduction”, and <u>Insert</u> a hyphen in the <u>second</u> occurrence of the word: “abovementioned”. (<i>Corrections shown in updated paragraph below.</i>)</p> <ul style="list-style-type: none"> • 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, which are covered by the subclass for the application, e.g. B41B, G06K, subject to those applications which are covered by this subclass; <p><u>Replace</u> in the existing 6th paragraph the words: “methods, or materials or processes” <u>with</u> the words: “processes, or materials”, and <u>Insert</u> the symbol “B41J” <u>after</u> “B41C”. (<i>Corrections shown in updated paragraph below.</i>)</p> <ul style="list-style-type: none"> • printing, duplication or marking processes, or materials therefor, which are covered by the relevant subclasses, e.g. B41C, B41J, B41M, G03C, G03F, G03G.

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		<p>apparatus methods for taking photographs using light sensitive film, i.e. insofar as not peculiar to the presence of the EIS, e.g. mounting of optical elements or flashes not peculiar to the presence of the EIS, and their related controls insofar as they are not peculiar to the presence or use of the EIS, e.g. exposure, focus, (opto-)mechanical motion blur (anti-shake);}</p> <ul style="list-style-type: none"> • {aspects of apparatus or methods for projecting or viewing images using an electronic spatial light modulator [ESLM], insofar as they correspond to those of said apparatus/ methods for projecting or viewing images using film stock, photographic film or slides, i.e. insofar as not peculiar to the presence of the ESLM, e.g. mounting of optical elements not peculiar to the presence of the ESLM, and their related controls not peculiar to the presence of the ESLM, e.g. cooling, beam shaping, optical keystone correction;} • {(opto-)mechanical image enhancement in printers or projectors, e.g. keystone correction;} • {optical viewfinders;} • {remote control of cameras and projectors insofar not peculiar to the EIS or ESLM, e.g. not affecting their operation, or being based on a generated image signal;} • {optical aspects of camera modules using electronic image sensors and related constructional details (optical elements or arrangements associated with solid state imager structures H01L27/14625);} • {constructional aspects of projectors, e.g. cooling, beam shaping, light integrating means not peculiar to the ESLM;} 	

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

Type*	Location	Old Note	New/Modified Note
M	H04N	<p>3. In this subclass, the following expression is used with the meaning indicated:</p> <p>"television systems" means those systems for the {electronic generation}, 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, {electronic} recordings of such scenes such as cinematograph films.</p>	<p>Reformat the paragraph in Note 3, as follows.</p> <p>Insert a bullet at the beginning, before "television systems".</p> <p>Delete the comma outside of the closing curly bracket in: "{electronic generation}," and Insert the comma inside of the closing curly bracket in: "{electronic generation,}".</p> <p><i>(Correction shown in updated paragraph below.)</i></p> <ul style="list-style-type: none"> "television systems" means those systems for the {electronic generation,} 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, {electronic} recordings of such scenes such as cinematograph films.
M	H04N13/00	{ This group covers systems where a three-dimensional effect or different views according to the viewpoint location are provided to one or more viewers by means of electronic signals representing a plurality of images or signals including depth information, e.g. taken from different viewpoint locations representing the interocular distance (optical systems for producing stereoscopic or other three dimensional effects G02B27/22) }	<p>Replace the existing note with the following:</p> <p>This group covers systems providing a three-dimensional [3D] effect, or different views to one or more viewers by means of electronic signals representing images, which could be taken from different viewpoints, or by means of signals including depth information { , e.g. taken from different viewpoint locations representing the interocular distance }</p>
D	H04N 13/0292	this group provisionally includes documents classified before 6/10/2011 which, in the present scheme, should be classified in H04N13/0285 and H04N13/0289 .	
D	H04N 13/0296	control aspects for eyestrain reduction are classified here in combination with H04N2213/00	
D	H04N 13/0456	this group provisionally includes documents classified before 6/10/2011 which, in the present scheme, should be classified in H04N13/0452 and H04N13/0454 .	
D	H04N 13/0497	control aspects for eyestrain reduction are classified here in combination with H04N2213/002	

*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.

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

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 13/00	Informative references		<p>Copy: All of the rows in the <u>existing Limiting references</u> table into the <u>existing Informative references</u> table.</p> <p>(The rows to be copied follow.)</p> <p>Stereoscopic television signal compression encoding, including stereoscopic and multiview signal encoding H04N 19/597</p> <p>Stereoscopic endoscopes A61B 1/00193, G02B 23/2415</p> <p>Arrangements for determining or recording eye movement (e.g. for gaze detection) A61B 3/113</p> <p>Printing stereoscopic images B41M 3/06</p> <p>Illumination with structured light for measuring contours or curvature of an object G01B 11/25</p> <p>Optical systems with means for monitoring data relating to the user, e.g. head-tracking, eye-tracking G02B 27/0093</p> <p>Head mounted displays G02B 27/017</p> <p>Optical systems for producing stereoscopic or other three dimensional effects G02B 27/22</p> <p>Spectacles having an electro-optical light valve (not switching at video field frequency) G02C 7/101</p> <p>Spectacles having passive polarizing filters G02C 7/12</p> <p>Stereoscopic film apparatus G03B 35/00</p>

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<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>Stereoscopic photographic or similar processes G03C 9/00</p> <p>Holographic imaging devices, even if providing a tv-like experience G03H 1/00</p> <p>Input/output in interaction with the human body (virtual reality) G06F 3/011</p> <p>Stereoscopic image processing in general, i.e. not being specially adapted to be used with devices falling under H04N 13/00, e.g. stereoscopic image analysis, generation of depth values from stereoscopic images, stereoscopic image segmentation, generation of monoscopic images from stereoscopic images G06T 7/00</p>
H04N 13/00	Limiting references	<p><i>Limiting references</i> <i>This place does not cover:</i></p> <p>Stereoscopic television signal compression encoding, including stereoscopic and multiview signal encoding H04N 19/597</p> <p>Stereoscopic endoscopes A61B 1/00193, G02B 23/2415</p> <p>Arrangements for determining or recording eye movement (e.g. for gaze detection) A61B 3/113</p> <p>Printing stereoscopic images B41M 3/06</p> <p>Illumination with structured light for measuring contours or curvature of an object G01B 11/25</p> <p>Optical systems with means for monitoring data relating to the user, e.g. head-tracking, eye-tracking G02B 27/0093</p> <p>Head mounted displays G02B 27/017</p>	<p><u>Delete</u> the <u>entire</u> existing <i>Limiting references</i> section (table and all rows).</p>

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<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>Optical systems for producing stereoscopic or other three dimensional effects G02B 27/22</p> <p>Spectacles having an electro-optical light valve (not switching at video field frequency) G02C 7/101</p> <p>Spectacles having passive polarizing filters G02C 7/12</p> <p>Stereoscopic film apparatus G03B 35/00</p> <p>Stereoscopic photographic or similar processes G03C 9/00</p> <p>Holographic imaging devices, even if providing a tv-like experience G03H 1/00</p> <p>Input/output in interaction with the human body (virtual reality) G06F 3/011</p> <p>Stereoscopic image processing in general, i.e. not being specially adapted to be used with devices falling under H04N 13/00, e.g. stereoscopic image analysis, generation of depth values from stereoscopic images, stereoscopic image segmentation, generation of monoscopic images from stereoscopic images G06T 7/00</p>	
H04N13/00	Special rules of classification	<p>Example: An invention concerning a time variant parallax barrier display is to be classified in H04N13/0413. If there are colour aspects, H04N13/0422 must be added. If in one of the embodiments the invention is applied to a lenticular screen display, additional classification in H04N13/0404 is not considered to be necessary. If on the other hand one of the embodiments discloses aspects concerning image processing, classification in the relevant subgroups of H04N13/0003 should be considered.</p>	<p>Replace the <u>symbols</u> in the existing Special Rules text with the following:</p> <p>H04N13/0413 <u>change to</u>: H04N13/315</p> <p>H04N13/0422 <u>change to</u>: H04N13/324</p> <p>H04N13/0404 <u>change to</u>: H04N13/305</p> <p>H04N13/0003 <u>change to</u>: H04N13/10</p>

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<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>
H04N13/00	Special rules of classification	<ul style="list-style-type: none"> • Orthogonal groups <p>Some H04N 13/00 groups are to be regarded as "orthogonal", i.e. groups where stereoscopic aspects are classified as ECLA codes even though they are not strictly connected to the main teaching of the document (provided that such aspects are relevant), in order to make a search more efficient by AND-ing said codes with the codes relating to the main aspects. The orthogonal groups of each of the three main subsections H04N 13/0003, H04N 13/02 and H04N 13/04 are listed therein.</p> <p>These groups are orthogonal to all groups.</p> <p>Examples: see the above mentioned subsections.</p>	<p>Replace the three existing paragraphs under the heading "Orthogonal groups" with the following <u>one</u> new paragraph.</p> <p>Some H04N13/00 groups are to be regarded as orthogonal. The orthogonal groups of each of the three main subsections H04N13/10, H04N13/20 and H04N13/30 are listed therein.</p>
H04N13/00	Special rules of classification	<ul style="list-style-type: none"> • ECLA codes <p>In the past, ECLA codes were allocated with a kind of deep indexing system, i.e. any relevant aspect, even not strictly connected with the main teaching of the document, was given a corresponding ECLA code. There is therefore a large number of documents (provisionally) having quite many ECLA and Indexing Codes. This practice has been discontinued and should presently not be followed.</p>	<p>Delete the <u>entire</u> ECLA codes section – that is the "ECLA codes" heading and the paragraph.</p>

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<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>
H04N13/00	Special rules of classification	<ul style="list-style-type: none"> Indexing Codes <p>In the past, Indexing Codes have been used during a reorganization made by students, wherein students allocated a set of Indexing Codes to be reviewed later by examiners. However, such codes were seldom removed by the examiners when the corresponding ECLA codes were allocated. There is therefore a large number of documents (provisionally) having identical ECLA and Indexing Codes, and even some irrelevant Indexing Codes. This practice has been discontinued and should presently not be followed. These Indexing Codes should be disregarded.</p>	Delete the entire Indexing codes section – that is the “Indexing codes” heading and the paragraph.
H04N 13/0003			Delete the entire definition.
H04N 13/02			Delete the entire definition.
H04N 13/04			Delete the entire definition.

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.

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	H04N13/0003	<administrative transfer to H04N13/10>
D	H04N13/0007	<administrative transfer to H04N13/106>
D	H04N13/0011	<administrative transfer to H04N13/111>
D	H04N13/0014	<administrative transfer to H04N13/117>
D	H04N13/0018	<administrative transfer to H04N13/122>
D	H04N13/0022	<administrative transfer to H04N13/128>
D	H04N13/0025	<administrative transfer to H04N13/133>
D	H04N13/0029	<administrative transfer to H04N13/139>
D	H04N13/0033	<administrative transfer to H04N13/144>
D	H04N13/0037	<administrative transfer to H04N13/15>
D	H04N13/004	<administrative transfer to H04N13/156>
D	H04N13/0044	<administrative transfer to H04N13/158>
D	H04N 13/0048	<administrative transfer to H04N13/161>
D	H04N 13/0051	<administrative transfer to H04N13/167>
D	H04N 13/0055	<administrative transfer to H04N13/189>
D	H04N 13/0059	<administrative transfer to H04N13/194>
D	H04N 13/0062	<administrative transfer to H04N13/172>
D	H04N 13/0066	<administrative transfer to H04N13/178>
D	H04N 13/007	<administrative transfer to H04N13/183>
D	H04N 13/02	<administrative transfer to H04N13/20>
D	H04N 13/0203	<administrative transfer to H04N13/204>
D	H04N 13/0207	<administrative transfer to H04N13/207>
D	H04N 13/021	<administrative transfer to H04N13/211>
D	H04N 13/0214	<administrative transfer to H04N13/214>
D	H04N 13/0217	<administrative transfer to H04N13/218>
D	H04N 13/0221	<administrative transfer to H04N13/221>
D	H04N 13/0225	<administrative transfer to H04N13/225>

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	H04N 13/0228	<administrative transfer to H04N13/229>
D	H04N 13/0232	<administrative transfer to H04N13/232>
D	H04N 13/0235	<administrative transfer to H04N13/236>
D	H04N 13/0239	<administrative transfer to H04N13/239>
D	H04N 13/0242	<administrative transfer to H04N13/243>
D	H04N 13/0246	<administrative transfer to H04N13/246>
D	H04N 13/025	<administrative transfer to H04N13/25>
D	H04N 13/0253	<administrative transfer to H04N13/254>
D	H04N 13/0257	<administrative transfer to H04N13/257>
D	H04N 13/026	<administrative transfer to H04N13/261>
D	H04N 13/0264	<administrative transfer to H04N13/264>
D	H04N 13/0267	<administrative transfer to H04N13/266>
D	H04N 13/0271	<administrative transfer to H04N13/271>
D	H04N 13/0275	<administrative transfer to H04N13/275>
D	H04N 13/0278	<administrative transfer to H04N13/279>
D	H04N 13/0282	<administrative transfer to H04N13/282>
D	H04N 13/0285	<administrative transfer to H04N13/286>
D	H04N 13/0289	<administrative transfer to H04N13/289>
D	H04N 13/0292	<administrative transfer to H04N13/293>
D	H04N 13/0296	<administrative transfer to H04N13/296>
D	H04N 13/04	<administrative transfer to H04N13/30>
D	H04N 13/0402	<administrative transfer to H04N13/302>
D	H04N 13/0404	<administrative transfer to H04N13/305>
D	H04N 13/0406	<administrative transfer to H04N13/307>
D	H04N 13/0409	<administrative transfer to H04N13/31>
D	H04N 13/0411	<administrative transfer to H04N13/312>
D	H04N 13/0413	<administrative transfer to H04N13/315>
D	H04N 13/0415	<administrative transfer to H04N13/317>
D	H04N 13/0418	<administrative transfer to H04N13/32>

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	H04N 13/042	<administrative transfer to H04N13/322>
D	H04N 13/0422	<administrative transfer to H04N13/324>
D	H04N 13/0425	<administrative transfer to H04N13/327>
D	H04N 13/0427	<administrative transfer to H04N13/365>
D	H04N 13/0429	<administrative transfer to H04N13/332>
D	H04N 13/0431	<administrative transfer to H04N13/334>
D	H04N 13/0434	<administrative transfer to H04N13/337>
D	H04N 13/0436	<administrative transfer to H04N13/339>
D	H04N 13/0438	<administrative transfer to H04N13/341>
D	H04N 13/044	<administrative transfer to H04N13/344>
D	H04N 13/0443	<administrative transfer to H04N13/346>
D	H04N 13/0445	<administrative transfer to H04N13/349>
D	H04N 13/0447	<administrative transfer to H04N13/351>
D	H04N 13/045	<administrative transfer to H04N13/354>
D	H04N 13/0452	<administrative transfer to H04N13/356>
D	H04N 13/0454	<administrative transfer to H04N13/359>
D	H04N 13/0456	<administrative transfer to H04N13/361>
D	H04N 13/0459	<administrative transfer to H04N13/363>
D	H04N2013/0461	<administrative transfer to H04N 2013/40>
D	H04N2013/0463	<administrative transfer to H04N 2013/403>
D	H04N2013/0465	<administrative transfer to H04N 2013/405>
D	H04N13/0468	<administrative transfer to H04N13/366>
D	H04N13/047	<administrative transfer to H04N13/368>
D	H04N13/0472	<administrative transfer to H04N13/371>
D	H04N13/0475	<administrative transfer to H04N13/373>
D	H04N13/0477	<administrative transfer to H04N13/376>
D	H04N13/0479	administrative transfer to H04N13/378>
D	H04N13/0481	<administrative transfer to H04N13/38>
D	H04N13/0484	<administrative transfer to H04N13/383>

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	H04N13/0486	administrative transfer to H04N13/315 >
D	H04N13/0488	<administrative transfer to H04N13/388>
D	H04N13/049	<administrative transfer to H04N13/39>
D	H04N13/0493	<administrative transfer to H04N13/393>
D	H04N13/0495	<administrative transfer to H04N13/395>
D	H04N13/0497	<administrative transfer to H04N13/398>
Q	H04N13/122	H04N13/122, H04N13/125, H04N 13/128
Q	H04N13/20	H04N 13/20, H04N 13/268
Q	H04N13/221	H04N13/221, H04N13/211
Q	H04N13/232	H04N13/229, H04N13/232
Q	H04N13/239	H04N13/239, H04N 13/243
Q	H04N13/30	H04N 13/30, H04N 13/365, H04N 13/385
Q	H04N13/307	H04N 13/305, H04N 13/307
Q	H04N13/349	H04N 13/307, H04N 13/349
Q	H04N13/363	H04N 13/363, H04N 13/388, H04N 13/39
Q	H04N13/393	H04N13/363, H04N 13/388, H04N 13/39, H04N13/393
Q	H04N13/395	H04N13/363, H04N 13/388, H04N 13/39,H04N13/395

* 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.

NOTES:

- Only C, D, F and Q type entries are included in the table above.
- When multiple symbols are included in the “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”.

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H04N 13/0003		delete
H04N 13/0007		delete
H04N 13/0011		delete
H04N 13/0014		delete
H04N 13/0018		delete
H04N 13/0022		delete
H04N 13/0025		delete
H04N 13/0029		delete
H04N 13/0033		delete
H04N 13/0037		delete
H04N 13/004		delete
H04N 13/0044		delete
H04N 13/0048		delete
H04N 13/0051		delete
H04N 13/0055		delete
H04N 13/0059		delete
H04N 13/0062		delete
H04N 13/0066		delete
H04N 13/007		delete
H04N 13/02		delete
H04N 13/0203		delete
H04N 13/0207		delete
H04N 13/021		delete
H04N 13/0214		delete
H04N 13/0217		delete
H04N 13/0221		delete
H04N 13/0225		delete
H04N 13/0228		delete
H04N 13/0232		delete
H04N 13/0235		delete
H04N 13/0239		delete
H04N 13/0242		delete
H04N 13/0246		delete
H04N 13/025		delete
H04N 13/0253		delete
H04N 13/0257		delete
H04N 13/026		delete
H04N 13/0264		delete
H04N 13/0267		delete
H04N 13/0271		delete
H04N 13/0275		delete
H04N 13/0278		delete

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H04N 13/0282		delete
H04N 13/0285		delete
H04N 13/0289		delete
H04N 13/0292		delete
H04N 13/0296		delete
H04N 13/04		delete
H04N 13/0402		delete
H04N 13/0404		delete
H04N 13/0406		delete
H04N 13/0409		delete
H04N 13/0411		delete
H04N 13/0413		delete
H04N 13/0415		delete
H04N 13/0418		delete
H04N 13/042		delete
H04N 13/0422		delete
H04N 13/0425		delete
H04N 13/0427		delete
H04N 13/0429		delete
H04N 13/0431		delete
H04N 13/0434		delete
H04N 13/0436		delete
H04N 13/0438		delete
H04N 13/044		delete
H04N 13/0443		delete
H04N 13/0445		delete
H04N 13/0447		delete
H04N 13/045		delete
H04N 13/0452		delete
H04N 13/0454		delete
H04N 13/0456		delete
H04N 13/0459		delete
H04N 2013/0461		delete
H04N 2013/0463		delete
H04N 2013/0465		delete
H04N 13/0468		delete
H04N 13/047		delete
H04N 13/0472		delete
H04N 13/0475		delete
H04N 13/0477		delete
H04N 13/0479		delete
H04N 13/0481		delete
H04N 13/0484		delete

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H04N 13/0486		delete
H04N 13/0488		delete
H04N 13/049		delete
H04N 13/0493		delete
H04N 13/0495		delete
H04N 13/0497		delete
H04N 13/10	H04N13/10	new
H04N 13/106	H04N13/106	new
H04N 13/111	H04N13/111	new
H04N 13/117	H04N13/117	new
H04N 13/122	H04N13/122	new
H04N 13/125	H04N13/125	new
H04N 13/128	H04N 13/128	new
H04N 13/133	H04N 13/133	new
H04N 13/139	H04N 13/139	new
H04N 13/144	H04N 13/144	new
H04N 13/15	H04N 13/15	new
H04N 13/156	H04N 13/156	new
H04N 13/158	H04N 13/106	new
H04N 13/161	H04N 13/161	new
H04N 13/167	H04N 13/167	new
H04N 13/172	H04N 13/172	new
H04N 13/178	H04N 13/178	new
H04N 13/183	H04N 13/183	new
H04N 13/189	H04N 13/189	new
H04N 13/194	H04N 13/194	new
H04N 13/20	H04N 13/20	new
H04N 13/204	H04N 13/204	new
H04N 13/207	H04N 13/207	new
H04N 13/211	H04N 13/211	new
H04N 13/214	H04N 13/214	new
H04N 13/218	H04N 13/218	new
H04N 13/221	H04N 13/221	new
H04N 13/225	H04N 13/225	new
H04N 13/229	H04N 13/229	new
H04N 13/232	H04N 13/232	new
H04N 13/236	H04N 13/236	new
H04N 13/239	H04N 13/239	new
H04N 13/243	H04N 13/243	new
H04N 13/246	H04N 13/246	new
H04N 13/25	H04N 13/25	new
H04N 13/254	H04N 13/254	new
H04N 13/257	H04N 13/257	new

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H04N 13/261	H04N 13/261	new
H04N 13/264	H04N 13/264	new
H04N 13/266	H04N 13/261	new
H04N 13/268	H04N 13/268	new
H04N 13/271	H04N 13/271	new
H04N 13/275	H04N 13/275	new
H04N 13/279	H04N 13/279	new
H04N 13/282	H04N 13/282	new
H04N 13/286	H04N 13/286	new
H04N 13/289	H04N 13/289	new
H04N 13/293	H04N 13/293	new
H04N 13/296	H04N 13/296	new
H04N 13/30	H04N 13/30	new
H04N 13/302	H04N 13/302	new
H04N 13/305	H04N 13/305	new
H04N 13/307	H04N 13/307	new
H04N 13/31	H04N 13/31	new
H04N 13/312	H04N 13/312	new
H04N 13/315	H04N 13/315	new
H04N 13/317	H04N 13/317	new
H04N 13/32	H04N 13/32	new
H04N 13/322	H04N 13/322	new
H04N 13/324	H04N 13/324	new
H04N 13/327	H04N 13/327	new
H04N 13/332	H04N 13/332	new
H04N 13/334	H04N 13/334	new
H04N 13/337	H04N 13/337	new
H04N 13/339	H04N 13/339	new
H04N 13/341	H04N 13/341	new
H04N 13/344	H04N 13/344	new
H04N 13/346	H04N 13/346	new
H04N 13/349	H04N 13/349	new
H04N 13/351	H04N 13/351	new
H04N 13/354	H04N 13/354	new
H04N 13/356	H04N 13/356	new
H04N 13/359	H04N 13/359	new
H04N 13/361	H04N 13/361	new
H04N 13/363	H04N 13/363	new
H04N 13/365	H04N 13/365	new
H04N 13/366	H04N 13/366	new
H04N 13/368	H04N 13/368	new
H04N 13/371	H04N 13/371	new
H04N 13/373	H04N 13/373	new

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H04N 13/376	H04N 13/376	new
H04N 13/378	H04N 13/378	new
H04N 13/38	H04N 13/38	new
H04N 13/383	H04N 13/383	new
H04N 13/385	H04N 13/385	new
H04N 13/388	H04N 13/388	new
H04N 13/39	H04N 13/39	new
H04N 13/393	H04N 13/393	new
H04N 13/395	H04N 13/395	new
H04N 13/398	H04N 13/398	new
H04N 2013/40	H04N 13/30	new
H04N 2013/403	H04N 13/30	new
H04N 2013/405	H04N 13/30	new

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

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

5. CROSS-REFERENCE LIST (CRL)

Definitions references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
G02C	Spectacles for watching 3D H04N 13/0434	Limiting references	<u>Replace</u> text and symbol with: Using polarisation multiplexing H04N 13/337
G02C 7/101	Stereoscopic displays using shutter glasses H04N 13/0438	Informative references	<u>Replace</u> text and symbol with: Using temporal multiplexing H04N 13/341
G02C 7/12	Stereoscopic image displaying using polarizing glasses H04N 13/0434	Informative references	<u>Replace</u> text and symbol with: Using polarisation multiplexing H04N 13/337
G06F 3/012	Stereoscopic picture reproducers using observer tracking H04N 13/0468	Limiting references	<u>Replace</u> text and symbol with: Using viewer tracking H04N 13/366
G06T 5/002	Temporal denoising/smoothing to reduce eye strain or fatigue in stereo vision H04N 13/0033	Informative references	<u>Replace</u> text and symbol with: For flicker reduction H04N 13/144
G06T 5/007	Equalising stereo images or image sequences H04N 13/0025	Informative references	<u>Replace</u> text and symbol with: Equalising the characteristics of different image components, e.g. their average brightness or colour balance H04N 13/133
G06T 5/40	Equalising stereo images or image sequences H04N 13/0025	Informative references	<u>Replace</u> text and symbol with: Equalising the characteristics of different image components, e.g. their average brightness or colour balance H04N 13/133
G06T 7/55	Volumetric display with depth sampling, i.e. the volume being constructed from a stack or sequence of 2D image planes H04N 13/0488	Application-oriented references	<u>Replace</u> the existing symbol with the following <u>new</u> symbol: H04N 13/388
G06T 7/593	Stereoscopic or multiview image generation wherein the generated image signals comprise depth maps or disparity maps H04N 13/0271	Application-oriented references	<u>Replace</u> the existing symbol with the following <u>new</u> symbol: H04N 13/271

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
G06T 7/80	Calibration of stereoscopic cameras H04N 13/0246	Informative references	Replace the existing symbol with the following <u>new</u> symbol: H04N 13/246
G06T 13/00	Stereoscopic image processing H04N 13/0003	Informative references	Replace text and symbol with: Processing, recording or transmission of stereoscopic or multi-view image signals H04N 13/10
G06T 15/00	Stereoscopic image generation or displaying H04N 13/02	Limiting references	Replace text and symbol with: Image signal generator H04N 13/20
G06T 15/08	Volumetric displays for the representation of 3D data sets H04N 13/0488	Informative references	Replace <u>only the symbol</u> "H04N 13/0488" with: H04N 13/388
G06T 15/20	Generation of "new perspectives" in stereoscopic imaging, i.e. transformation of stereoscopic image signals corresponding to virtual viewpoints H04N 13/0011	Limiting references	Replace text and symbol with: Transformation of image signals corresponding to virtual viewpoints H04N 13/111
G06T 17/00	Stereo image generation H04N 13/02	Informative references	Replace text and symbol with: Image signal generators H04N 13/268
G06T 17/00	Stereo image generation H04N 13/02	Limiting references	Delete the following row from the Limiting references table. Stereo image generation H04N 13/02
G06T 19/00	Viewpoint transformation of stereoscopic image signals H04N 13/0011	Informative references	Replace text and symbol with: Transformation of image signals corresponding to virtual viewpoints H04N 13/111
G06T 19/006	Helmet-mounted display of stereo images H04N 13/044	Informative references	Replace text and symbol with: With head-mounted left-right displays H04N 13/344
G06T 19/006	Volumetric displays, e.g. for display of mixed reality scenes H04N 13/0488	Informative references	Replace text and symbol with: Volumetric display, i.e. systems where the image distributed through a volume H04N 13/388
H04N 9/31	3D picture reproducers H04N 13/04	Limiting references	Replace text and symbol with:

CPC NOTICE OF CHANGES 476

DATE: MAY 1, 2018

PROJECT RP0489

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
			Image reproducers H04N 13/30
H04N 21/236	Multiplexing of data packets for data networks, e.g. RTP/UDP H04L 29/06176	Limiting references	Replace text and symbol with: Multiplexing of data packets for data networks H04L 65/00
H04N 21/434	Demultiplexing of data packets for data networks, e.g. RTP/UDP H04L 29/06176	Limiting references	Replace text and symbol with: Multiplexing of data packets for data networks H04L 65/00

NOTES:

- The CRL tables above are used for changes to locations **outside** of the project scope. Changes to references in scheme titles or definitions **inside** the project scope will be reflected in the “scheme change” template or one of the “definition” templates.
- In addition to other changes proposed in the tables above, in the column titled “Referenced subclass or group to be changed,” **referenced** D symbols should indicate an action of “delete” or should indicate a replacement symbol and **referenced** F symbols should indicate a replacement symbol.
- When a reference is deleted, text related to that reference will also be deleted unless other references or a range of references associated with the same text remain.