U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

CLASSIFICATION ORDER 1858

January 2, 2007

Project No. X7044

The following classification changes will be effected by this order:

| | Class | <u>Subclass</u> | Art Unit | | · Search <u>m No.</u> |
|--------------|-------|--|--|-----|--------------------------|
| Abolished: | None | | | | |
| Established: | 348 | E3.001-E3.009, E3.01, E3.011-E3.019 E3.021-E3.029, E3.03, E3.031-E3.039 E3.04, E3.041-E3.049, E3.05, E3.051 E5.001-E5.009, E5.01, E5.011-E5.019 E5.021-E5.029, E5.03, E5.031-E5.039 E5.041-E5.049, E5.05, E5.051-E5.059 E5.061-E5.069, E5.07, E5.071-E5.079 E5.081-E5.089, E5.09, E5.091-E5.099 E5.101-E5.109, E5.11, E5.111-E5.119 E5.121-E5.129, E5.13, E5.131-E5.139 E5.141-E5.145, E7.001-E7.009, E7.019 E7.02, E7.021-E7.029, E7.03, E7.031 E7.04, E7.041-E7.049, E7.05, E7.051 E7.06, E7.061-E7.069, E7.07, E7.071 E7.08, E7.081-E7.089, E7.09, E7.091 E9.001-E9.009, E9.01, E9.011-E9.019 E9.021-E9.029, E9.03, E9.031-E9.039 E9.04, E9.041-E9.049, E9.05, E9.051 E11.001-E11.009, E11.01, E11.011-E11.011-E11.011-E11.011-E11.02, E11.021, E11.022, E13.001-E13.01, E13.011-E13.019, E13.02, E13.03, E13.031-E13.039, E13.04, E13.05, E13.051-E13.059, E13.06, E13.07, E13.071-E13.075, E15.001, E | 9, 1-E3.053, 9, E5.02, 9, E5.04, 9, E5.06, 9, E5.08, 9, E5.1, 9, E5.12, 9, E5.14, 1, E7.011-E7.019, 1-E7.039, 1-E7.059, 1-E7.079, 1-E7.094 9, E9.02, 9, 1-E9.057, E11.019, E13.009, 13.021-E13.029, 13.041-E13.049, 13.061-E13.069, | Not | Applicable |

No other classes are impacted by this order:

This order includes the following:

- A. CLASSIFICATION MANUAL CHANGES
- C. CHANGES TO THE U.S.-I.P.C. CONCORDANCE
- D. DEFINITION CHANGES AND NEW OR ADDITIONAL DEFINITIONS

CLASSIFICATION ORDER 1858

January 2, 2007

Project Leader: Yen M. Nguyen

Editor: Varona Stevens

Editorial Assistant: Yvonne Smith

| 14.01 | TWO-WAY VIDEO AND VOICE COMMUNICATION | 53 | Viewer attached |
|-------|--|------------|--|
| | (E.G., VIDEOPHONE) | 54 | Single display with optical path division |
| 14.02 | Over wireless communication | 55 | Separation by time division |
| 14.03 | .User interface (e.g., touch screen menu) | 55 56 | With alternating shutters |
| 14.04 | Operating with other appliance (e.g., | 57 | With alternating polarization |
| 14.04 | TV, VCR, FAX, etc.) | 58 | Separation by polarization |
| 14.05 | Remote control | 59 | Separation by Jenticular screen |
| 14.06 | .Answering machine | 60 | Separation by color (i.e., |
| 14.07 | .Display arrangement (e.g., multiscreen | 80 | anaglyphic) |
| 14.07 | display) | 61 | SPECIAL APPLICATIONS |
| 14.08 | .Conferencing (e.g., loop) | 62 | Aid for the blind |
| 14.09 | Conferencing with multipoint control | 63 | Image magnifying |
| | unit | 64 | .Combined electronic sensing and |
| 14.1 | Motion image conferencing | V-1 | photographic film cameras |
| 14.11 | .Switching | 65 | .With endoscope |
| 14.12 | .Transmission control (e.g., resolution | 66 | Dental |
| | or quality) | 67 | Laser |
| 14.13 | Compression or decompression | 68 | Illumination |
| 14.14 | Still frame (e.g., freeze frame) | 69 | Controlled by video signal |
| 14.15 | Field or frame difference (e.g., | 70 | Color sequential illumination |
| | moving frame) | 71 | Color TV |
| 14.16 | .User positioning (e.g., parallax) | 72 | Plural endoscopes interchangeable |
| 21 | PLURAL TRANSMITTER SYSTEM CONSIDERATIONS | 73 | External camera |
| | (E.G., INTERFERENCE REDUCTION) | 74 | With additional adjunct (e.g., |
| 22 | SLOW SCANNING TRANSMISSION (E.G., STILL FRAME) | | recorder control, etc.) |
| 23 | .Color TV | 75 | Adaptor or connector |
| 24 | PLURAL STILL IMAGES OVER CONVENTIONAL | 76 | Physical structure of circuit element |
| | CHANNEL | 77 | .Human body observation |
| 25 | IMAGE FALSIFICATION TO IMPROVE VIEWER | 78 | . Eye |
| | PERCEPTION OF SELECTIVE OBJECT (E.G., | 79 | .Microscope |
| | MOVING OBJECT OR TARGET) | 80 | Electronic |
| 26 | .Contour generator | 81 | .Underwater |
| 27 | Quantizer | 82 | .Hazardous or inaccessible |
| 28 | .Selective contrast expander | 83 | Furnace (e.g., nuclear reactor, etc.) |
| 29 | .False color | 84 | Pipeline |
| 30 | Hue expander | 85 | Borehole |
| 31 | BACK SCATTER REDUCTION | 86 | .ManufacturingElectronic circuit chip or board |
| 32 | PSEUDO COLOR | 87 | (e.g., positioning) |
| 33 | <pre>.Multispectral to color conversion (e.g., infrared and visible,</pre> | 88 | Web, sheet or filament |
| | infrared bands, etc.) | 89 | Agricultural or food production |
| 34 | .Including intensity to color conversion | 90 | Welding |
| J. | (e.g., colorizer, etc.) | 91 | Sorting, distributing or classifying |
| 35 | PSEUDO BLACK AND WHITE | 92 | Quality inspection |
| 36 | PANORAMIC | 93 | Color TV |
| 37 | .With continuously rotating element | 94 | Position detection |
| 38 | .Multiple channels | 95 | Alignment or positioning |
| 39 | .With observer selected field of view | 96 | .Film, disc or card scanning |
| 40 | HOLOGRAPHIC | 90 97 | Motion picture film scanner |
| 41 | .Color TV | | Mechanical optical scanning |
| 42 | STEREOSCOPIC | 98 | Flying spot scanner |
| 43 | .Signal formatting | 99 | |
| 44 | .Pseudo | 100 | Flying spot scanner |
| 45 | .Endoscope | 101 | Color TV |
| 46 | .Picture signal generator | 102 | Intermittent film movement |
| 47 | Multiple cameras | 103 | With modification of scanner sweep |
| 48 | More than two cameras | 104 | Color TV |
| 49 | Single camera with optical path | 105 | Intermittent film movement |
| 4.2 | division | 106 107 | With modification of scanner sweepWith record location |
| 50 | Single camera from multiple positions | , | |
| 51 | .Stereoscopic display device | | |
| 52 | More than two display devices | | |

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

| | GDEGTAL ADDITIONED | 1.60 | Danding water or data mainten |
|------------|--|------------|--|
| | SPECIAL APPLICATIONS .Film, disc or card scanning | 160 161 | Reading meter or data printer .Object comparison (e.g., remote |
| 108 | Flying spot scanner | 101 | verification of signature, etc.) |
| 109 | Color TV | 162 | RESPONSIVE TO NONVISIBLE ENERGY |
| 110 | Slide | 163 | .Sonic or ultrasonic |
| 111 | Color TV | 164 | .Infrared |
| 112 | Microfilm | 165 | Pyroelectric |
| 113 | .Navigation | 166 | With linear array |
| 114 | Remote control | 167 | With rotating reflector |
| 115 | Head-up display | 168 | With rotating reflector |
| 116 | Direction finding or location | 169 | OBJECT TRACKING |
| | determination | 170 | .Using tracking gate |
| 117 | Aircraft or spacecraft | 171 | Centroidal tracking |
| 118 | Land vehicle | 172 | .Centroidal tracking |
| 119 | Program control (e.g., path guidance, | 173 | CATHODE-RAY TUBE BURN-IN PREVENTION |
| | etc.) | 174 | .Camera |
| 120 . | Farm vehicle | 175 · | CAMERA WITH BUILT-IN TEST SIGNAL |
| 121 | .Simulator | | GENERATOR, TEST PATTERN, OR ADJUSTING |
| 122 | Visibility (e.g., fog, etc.) | | ADJUNCT |
| 123 | Aircraft or spacecraft | 176 | .Setup |
| 124 | Ship | 177 | DISPLAY OR RECEIVER WITH BUILT-IN TEST |
| 125 | .Flaw detector | | SIGNAL GENERATOR, TEST PATTERN, OR |
| 126 | Of electronic circuit chip or board | 178 | ADJUSTING ADJUNCT |
| 127 | Of transparent container or content | 178 179 | .Setup |
| | (e.g., bottle, jar, etc.) | 180 | Color match comparator MONITORING, TESTING, OR MEASURING |
| 128 | Of surface (e.g., texture or | 181 | .Test signal generator |
| 100 | smoothness, etc.) | 182 | Chroma or color bar |
| 129 130 | By comparison with reference object | 183 | VITS or ILTS |
| 130 | With stored representation of reference object | 184 | .Monitor |
| 131 | With specific illumination detail | 185 | Combined plural functions (e.g., |
| 132 | With strobe illumination | 103 | picture and waveform monitor) |
| 133 | With circuit detail | 186 | Vectorscope |
| 134 | Including line to line comparison | 187 | .Testing of camera |
| 135 | .Object or scene measurement | 188 | Using test chart |
| 136 | Projected scale on object | 189 | .Testing of image reproducer |
| 137 | Scale on camera target | 190 | Alignment-manufacturing |
| 138 | Pulse or clock counting | 191 | Display photometry |
| 139 | Multiple cameras on baseline (e.g., | 192 | .Transmission path testing |
| | range finder, etc.) | 193 | Signal to noise ratio |
| 140 | <pre>Distance by apparent target size (e.g., stadia, etc.)</pre> | 194 | <pre>.Synchronization (e.g., H-sync to subcarrier)</pre> |
| 141 | By cursor coordinate location | 195 | MECHANICAL OPTICAL SCANNING |
| 142 | With camera and object moved relative | 196 | .Color TV |
| | to each other | 197 | .With fiber optics |
| 143 | .Observation of or from a specific | 198 | .By acoustic wave |
| | location (e.g., surveillance) | 199 | .Moving aperture |
| 144 | Aerial viewing | 200 | Drum or belt |
| 145 | With linear array | 201 | Multiple scanning elements |
| 146 | With rotating reflector | 202 | .Moving lens or refractor |
| 147 | With transformation or rectification | 203 | .Moving reflector |
| 148 | Vehicular | 204 | Helical element |
| 149 | Traffic monitoring | 205 | Vibrating or oscillating |
| 150 | Point of sale or banking | 206 | SPECIAL SCANNING (E.G., SPIRAL, RANDOM, |
| 151 | Camera concealment | | ZIGZAG) |
| 152 | Intrusion detection | 207.99 | CAMERA, SYSTEM AND DETAIL |
| 153 | Using plural cameras | 207.1 | .Camera connected to computer |
| 154 | Motion detection | 207.11 | Computer can control camera |
| 155 | Motion detection | 207.2 | .Camera connected to printer |
| 156 157 | Access control | 208.99 | .Camera image stabilization |
| 157 158 | Sporting event Portable | 208.1 | Electrical motion detection |
| 158 | PortablePlural cameras | | |
| 200 | Tarar comeras | | |

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

| | CAMERA, SYSTEM AND DETAIL | 225.1 | With means for preventing colored |
|------------------|---|------------|--|
| 200 2 | .Camera image stabilization | | object from effecting color balance |
| 208.2 | <pre>.Mechanical motion detection (gyros, accelerometers, etc.)</pre> | 226.1 | Including flicker detection (e.g., |
| 208.3 | Differentiating unintentional from | 227.1 | fluorescent)With ambient light sensor |
| | <pre>purposeful camera movement (pan, tilt)</pre> | 227.1 | Responsive to output signal |
| 208.4 | Motion correction | 229.1 | Combined automatic gain control and |
| 208.5 | Including both electrical and mechanical correcting devices | 223.1 | exposure control (i.e., sensitivity control) |
| 208.6 | Electrical (memory shifting, electronic zoom, etc.) | 230.1 | Readout of solid-state image sensor considered or altered |
| 208.7 | Mechanical | 231.99 | .With details of static memory for |
| 208.8 | Variable angle prisms | | output image (e.g., for a still |
| 208.11 | Optics, lens shifting | 231.1 | camera) |
| 208.12 | Combined with other camera operations | 231.1 | Available memory space detection |
| | (e.g., autofocus or autoexposure | 231.2 | Image file management |
| 000 10 | details) | 231.3 | Storage of additional dataAudio |
| 208.13 | Motion correction plus resolution enhancement | | |
| 208.14 | Object tracking | 231.5 | Time or date, annotation |
| | 3 | 231.6 | Processing or camera details |
| 208.15 208.16 | Warning/indicator | 231.7 | Detachable |
| 208.16 | Changing camera function based on motion detection (mode, power | 231.8 | Multiple detachable memories |
| | supply) | 231.9 | Details of communication between memory and camera |
| 209.99 | .With flying spot scanner | 240.99 | Zoom |
| 210.99 | For color scanning | 240.1 | Using both optical and electronic |
| 211.99 | .Remote control | | zoom |
| 211.1 | Communication methods | 240.2 | Electronic zoom |
| 211.2 | Wireless | 240.3 | Optical zoom |
| 211.3 | Network (master/slave, client or server, etc.) | 234 | Details of luminance signal formation in color camera |
| 211.4 211.5 | Control devicesMultiplexed or other embedded control | 235 | With means for providing high band and low band luminance signals |
| 211.6 | signalsPreprogrammed or stored control | 236 | Using distinct luminance image sensor |
| 211.7 | instructions | 237 | For single sensor type camera supplying plural color signals |
| 211.1 | Electromechanical controls (joystick, trackball, mouse, etc.) | 238 | Using distinct luminance image sensor |
| 211.8 | Monitor used to control remote camera | 239 | Camera and video special effects |
| 211.9 | Camera characteristics affecting control (zoom angle, distance to | | <pre>(e.g., subtitling, fading, or merging)</pre> |
| 211.11 | camera time delays, weight, etc.)Plural cameras being controlled | 241 | Including noise or undesired signal reduction |
| 211.12 | Video teleconferencing (including | 242 | Color TV |
| | access or authorization) | 243 | Dark current |
| 211.13 | Monitor (including for controlling | 244 | With control of sensor temperature |
| | camera) | 245 | Using dummy pixels |
| 211.14 | Camera located remotely from image processor (i.e., camera head) | 246 | Defective pixel (e.g., signal replacement) |
| 215.1 | .With streak device | 247 | With memory of defective pixels |
| 216.1 | .Low light level | 248 | Smear |
| 217.1 | With image intensifier | 249 | In charge coupled type sensor |
| 218.1 | .Unitary image formed by compiling | 250 | In charge coupled type sensor |
| | sub-areas of same scene (e.g., array of cameras) | 251 252 | Shading or black spot correctionWith transition or edge sharpening |
| 219.1 | .Swing driven | | (e.g., aperture correction) |
| 220.1 | .Still and motion modes of operation | 253 | Color TV |
| 221.1 | Exposure control | 254 | Gray scale transformation (e.g., gamma |
| 222.1 | .Combined image signal generator and general image signal processing | | correction) |
| 223.1 | Color balance (e.g., white balance) | 255 | Amplitude control (e.g., automatic gain control) |
| 224.1 | Dependent upon operation or | 256 | Color TV (e.g., saturation) |
| | characteristic of iris, flash, lens, or filter) | 257 | With DC level control |
| | | | |

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

| | | | JANUARY 2007 |
|------------|---|--------|---|
| | CAMERA, SYSTEM AND DETAIL | 306 | Charge injection device (CID) |
| | Combined image signal generator and general image signal processing | 307 | Photosensitive switching transistors or "static induction" transistors |
| | With DC level control | 308 | Including switching transistor and |
| 258 | With bias illumination | | <pre>photocell at each pixel site (e.g., "MOS-type" image sensor)</pre> |
| 259 | Combined with color separating optical system | 309 | Exclusively passive light responsive elements in the matrix |
| 260 | For single scanning device color | 310 | With diode in series with photocell |
| 0.61 | camera | 311 | With diode in series with photocerr Charge-coupled architecture |
| 261 | Plural bias illuminators | 312 | With timing pulse generator |
| 262 | .With plural image scanning devices | 313 | With bias charge injection |
| 263 | Color imagery registrationScanning devices offset in the image | 314 | With excess charge removal (e.g., |
| 264 | plane | | overflow drain) |
| 265 | . Each supplying only one color signal | 315 | With staggered or irregular photosites or specified channel |
| 266 | With single image scanning device | | configuration |
| 0.68 | supplying plural color signals | 316 | Charges transferred to opposed |
| 267 | Separate complete images on face of pickup device | | registers |
| 268 | Color sequential | 317 | Field or frame transfer type |
| 269 | With color sequential illumination | 318 | With recirculation of charge |
| 270 | With moving color filters | 319 | Charges alternately switched from vertical registers into separate |
| 271 | Four or more color types | | storage registers; or having |
| 272 | Solid-state multicolor image sensor | | vertical transfer gates |
| 273 | With color filter or operation | 320 | Interline readout |
| 054 | according to color filter | 321 | Using multiple output registers |
| 274 | Having overlapping elements | 322 | Interline readout |
| 275 | Staggered or irregular elements | 323 | Using multiple output registers |
| 276 | Including transparent elements | 324 | Line transfer type |
| 277 | With three or more colors | 325 | .Cathode-ray tube |
| 278 | Based on more than four colorsBased on four colors | 326 | Automatic beam focusing or alignment |
| 279 280 | Based on three colors | 327 | Automatic beam current control |
| 280 281 | X-Y architecture | 328 | Remanent image erasure |
| 282 | Charge coupled architecture | 329 | With emissive target or photocathode |
| 283 | With multiple output registers | | (e.g., orthicon) |
| 284 | with martiple output registersCathode-ray tube | 330 | Dissector tube |
| 285 | Phase separable signals | 331 | <pre>With photoconductive target (e.g., vidicon)</pre> |
| 286 | With indexing | 320 | |
| 287 | Conductive grid at target | 332 | <pre>.Array of photocells (i.e., nonsolid-state array)</pre> |
| 288 | Index elements outside of image area | 333.01 | .With electronic viewfinder or display monitor |
| 289 | Frequency separable signals | 333.02 | With display of additional information |
| 290 | Specified optical filter arrangement | 333.03 | Including display of a frame and line |
| 291 | Combined with grating, lens array, or refractor | 333.04 | of sight determinationIncluding warning indication |
| 292 | Having diagonally arranged stripes | 333.05 | Display of multiple images (e.g., |
| 293 | Interdigital signal electrodes | 333.03 | thumbnail images, etc.) |
| 294 | .Solid-state image sensor | 333.06 | Movable or rotatable unit |
| 295 | Time delay and integration mode (TDI) | 333.07 | Detachable |
| 296 | Electronic shuttering | 333.08 | Including optics |
| 297 | Accumulation or integration time | 333.09 | With optical viewfinder (e.g., |
| 2), | responsive to light or signal intensity | 333.1 | correction for parallax, etc.)With projector function |
| 298 | In charge coupled type image sensor | 333.11 | Use for previewing images (e.g., |
| 299 | With overflow gate or drain | 200.11 | variety of image resolutions, etc.) |
| 300 | With amplifier | 333.12 | Modification of displayed image |
| 301 | Pixel amplifiers | 333.13 | Power saving mode |
| 302 | X - Y architecture | 335 | .Optics |
| 303 | With charge transfer type output | 336 | Color separating optics |
| 304 | registerWith charge transfer type selecting | | |
| 305 | registerWith interlacing | | • |
| | | | |

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

| | | | \$10.000 Television |
|------------|---|----------------|---|
| | CAMERA, SYSTEM AND DETAIL | 384.1 | BANDWIDTH REDUCTION SYSTEM |
| | .Optics | 385.1 | .Plural video programs in single channel |
| | Color separating optics | 386.1 | Color television |
| 337 | Prism arrangement | 387.1 | Data rate reduction |
| 338 | With dichroic layer or air gap | 388.1 | .Multiple channel (e.g., plural carrier) |
| 222 | between prism sections | 389.1 | Including one conventional or |
| 339 | Exclusively dichroic elements | | compatible channel (e.g., two |
| 340 | With optics peculiar to solid-state | 200 1 | channel NTSC systems) |
| 2.41 | sensor | 390.1 | .Data rate reduction |
| 341 342 | Optical viewfinder | 391.1 | Specified color signal |
| 342 | <pre>With frequency selective filter (e.g.,</pre> | 392.1 393.1 | Sub-Nyquist sampling |
| 343 | Optical multiplexing | 393.1 | Direct coding of color composite signal |
| 344 | Optical materprexing | 394.1 | Predictive coding |
| 345 | Focus control | 395.1 | Transform coding |
| 346 | With display of focusing condition or | 396.1 | Including luminance signal |
| 310 | alarm | 397.1 | Using separate coders for different |
| 347 | With zoom position detection or interrelated iris control | 337.11 | picture features (e.g., highs, lows) |
| 348 | Using active ranging | 398.1 | Subband encoding (e.g., low |
| 349 | Using image signal | | horizontal/low vertical frequency, |
| 350 | With auxiliary sensor or separate area on imager | | <pre>low horizontal/high vertical frequency)</pre> |
| 351 | With oscillation of lens or sensor | 399.1 | .Picture feature dependent sampling |
| | to optimize error signal | 400 1 | rate or sample selection |
| 352 | With motion detection | 400.1 | Involving hybrid transform and difference coding |
| 353 | By detecting contrast | 401.1 | With prior difference coding |
| 354 | By analyzing high frequency | 402.1 | Including motion vector |
| 255 | component | 403.1 | Involving transform coding |
| 355 | Plural high frequencies | 404.1 | Adaptive |
| 356 | Detection of peak or slope of image signal | 405.1 | Sampling |
| 357 | Servo unit structure or mechanism | 406.1 | Normalizer |
| 359 | Fiber optics | 407.1 | Motion |
| 360 | Lens or filter substitution | 408.1 | Transformed sample selection (e.g., |
| 361 | Automatic | | hierarchical sample selection) |
| 362 | Exposure control | 409.1 | Involving difference transmission |
| 363 | Automatic control of iris, stop, or | | (e.g., predictive) |
| | diaphragm | 410.1 | Involving both base and differential |
| 364 | Based on image signal | | encoding |
| 365 | Contrast | 411.1 | Plural predictors |
| 366 | Based on ambient light | 412.1 | Including temporal predictor (e.g., frame difference) |
| 367 | Periodic shuttering | 413.1 | Including motion vector |
| 368 | Rotary | 414.1 | Involving pattern matching |
| 369 | Changing viewing angle via optics | 415.1 | Including temporal prediction (e.g., |
| 370 | .With object or scene illumination | 413.1 | frame difference) |
| 371 | Flash or strobe | 416.1 | Including motion vector |
| 372 | .Power supply | 417.1 | Involving pattern matching |
| 373 | .Support or housing | 418.1 | Involving pattern matching |
| 374 | For internal camera components | 419.1 | Coding element controlled by buffer |
| 375 | For specified accessory | | fullness |
| 376 | Portable or hand-held | 420.1 | Involving block coding |
| 377 | CATHODE-RAY TUBE DISPLAY EXCESSIVE VOLTAGE CONTROL | 421.1 | Involving minimum, maximum, or average of block |
| 378 | .With disabling | 422.1 | Involving pattern matching |
| 379 | CATHODE-RAY TUBE DISPLAY AUTOMATIC BLACK LEVEL BIAS CONTROL | 423.1 | Arrangements for multiplexing one video signal, one or more audio |
| 380 | CATHODE-RAY TUBE DISPLAY BEAM CURRENT CONTROL | 424.1 | signals, and a synchronizing signal Sub-Nyquist sampling |
| 381 | .With beam energy determining color | 424.2 | Adaptive |
| 382 | Variable depth of penetration of electron beam into the luminescent layer | 425.1 | Associated signal processing |
| 383 | MODULAR IMAGE DISPLAY SYSTEM | | |
| | | | |

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

| | | | JANUARI 2007 |
|-------|---|-----|---|
| | BANDWIDTH REDUCTION SYSTEM .Data rate reduction | 460 | DIVERSE DEVICE CONTROLLED BY INFORMATION EMBEDDED IN VIDEO SIGNAL |
| | Associated signal processing | 461 | NONPICTORIAL DATA PACKET IN TELEVISION |
| 425.2 | Involving error detection or | 462 | FORMAT .Audio |
| | correction | | · · · · · · · · · · · · · · · · · · · |
| 425.3 | Involving signal formatting | 463 | .Full field |
| 425.4 | Involving synchronization | 464 | Sync |
| 426.1 | .Format type | 465 | .Data separation or detection |
| 427.1 | Including frequency folding (e.g., | 466 | Error correction or prevention |
| | subsampling) | 467 | .Data format |
| 428.1 | Spotwobble (e.g., pixels from plural lines form single transmitted | 468 | .Including teletext decoder or display |
| | line) | 469 | FORMAT |
| 429.1 | Including video-related information | 470 | .Adapted to reduce noise or for frequency modulation (e.g., variable |
| 430.1 | Using two or more frames | | qain) |
| 431.1 | Motion adaptive | 471 | .Including pulse modulation of video |
| 432.1 | Added video information in standard | | signal (e.g., pulse width, PAM) |
| 19511 | channel format | 472 | Pulse code modulation |
| 433.1 | Including additional modulation of | 473 | .Including additional information |
| | picture carrier (e.g., quadrature) | 474 | For controlling video processing |
| 434.1 | Including information in sync, | | (e.g., digitally assisted video) |
| | blanking, or overscan | 475 | Additional modulation of picture |
| 435.1 | During vertical blanking interval | | carrier (e.g., quadrature) |
| 436.1 | Including use of a subcarrier | 476 | During sync, blanking, or overscan |
| 437.1 | Individual processing of different | 477 | During both vertical and horizontal |
| | parts of image frequency band | | blanking |
| | <pre>(e.g., sum and difference, high band/low band)</pre> | 478 | During vertical blanking |
| 438.1 | .Individual processing of different | 479 | During horizontal blanking |
| 430.1 | parts of image frequency band (e.g., | 480 | Sound signal |
| | sum and difference, high band/low | 481 | Plural (e.g., stereo or SAP) |
| | band) | 482 | Sound signal |
| 439.1 | .Frame field or line dropping followed | 483 | Plural (e.g., stereo or SAP) |
| | by time expansion and time | 484 | Sound signal |
| | compression | 485 | Plural (e.g., stereo or SAP) |
| 440.1 | .Scan rate variation | 486 | Including the use of a subcarrier |
| 441 | FORMAT CONVERSION | 487 | .Broadband (e.g., occupying two adjacent channels or parts thereof) |
| 442 | .Involving polar to Cartesian or vice versa | 488 | Specified color signal format |
| 443 | .Involving both line number and field | 489 | Time division multiplexing of |
| 447 | rate conversion (e.g., PAL to NTSC) | 400 | luminance and chrominance (e.g., |
| 444 | Specified chrominance signal | | MAC) |
| 445 | .Conversion between standards with | 490 | Field or frame sequential systems |
| | different aspect ratios | 491 | Simultaneous and sequential (e.g., |
| 446 | .Progressive to interlace | 400 | SECAM) |
| 447 | .Field rate type flicker compensating | 492 | Simultaneous signals |
| 448 | <pre>.Line doublers type (e.g., interlace to progressive IDTV type)</pre> | 493 | Luminance plus dual-phase modulated color carrier |
| 449 | Including nonstandard signal detection | 494 | Dot sequential |
| 450 | Specified chrominance processing | 495 | .Of sync signal |
| | (e.g., Y/C separation) | 496 | Color |
| 451 | Motion adaptive | 497 | FLUTTER OR JITTER CORRECTION (E.G., |
| 452 | Motion adaptive | 400 | DYNAMIC REPRODUCTION) |
| 453 | .Specified chrominance processing | 498 | .Specified color |
| 454 | PAL to NTSC or vice versa | 499 | Using frequency shifting (e.g., heterodyne) |
| 455 | In which simultaneous signals are | 500 | SYNCHRONIZATION |
| | converted into sequential signals or vice versa | 501 | .Reprocessing |
| 156 | or vice versaField or frame sequential to | 501 | Specified color |
| 456 | rieid or frame sequential to simultaneous | 502 | specified color .For sequential color components |
| 457 | Frequency change of subcarrier | 504 | With line rate switch (e.g., SECAM) |
| 458 | .Changing number of lines for standard | 504 | . Phase locking regenerated subcarrier to |
| | conversion | 505 | color burst |
| 459 | .Changing number of fields for standard | | |

[#] Title Change
* Newly Established Subclass

conversion

[@] Indent Change & Position Change

| | SYNCHRONIZATION | 559 | Instant replay or freeze frame |
|------------|--|--------------------|---|
| | Phase locking regenerated subcarrier to | 560 | Color television processing |
| 506 | color burst | 561 | .For magnification of part of image |
| 506 507 | Burst gateIncluding demodulator | , 562 | Color television |
| 507 | Digital | 563 | .For display of additional informationSimultaneously and on same screen |
| 509 | With line rate switch (e.g., PAL) | 564 | (e.g., multiscreen) |
| 510 | with line late switch (e.g., lan) Locking of computer to video timebase | 565 | Picture in picture |
| 511 | .Control of picture position | 566 | Color television |
| 512 | .Locking of video or audio to reference | 567 | Memory |
| 312 | timebase | 568 | Compression |
| 513 | Frame or field synchronizers | 569 | Receiver indicator (e.g., on screen |
| 514 | Color television | | display) |
| 515 | Audio to video | 570 | Tuning indication |
| 516 | By controlling video or sync generator | 571 | IMAGE SIGNAL PROCESSING CIRCUITRY |
| 517 | Color television | | SPECIFIC TO TELEVISION |
| 518 | Including compensation for | 572 | .A/D converters |
| | transmission delays | 573 | Analog to binary |
| 519 | Color television | 574 | Including dither |
| 520 | Color | 575 | .Video reprocessing |
| 521 | .Sync generation | 576 | .Selective image modification (e.g., |
| 522 | Means on video signal generator | | touch up) |
| 523 | With addressable memory | 577 | Color change type |
| 524 | With counter or frequency divider | 578 | Special effects |
| 525 | .Sync separation | 579 | Strobe (e.g., ball tracker) |
| 526 | Field or frame identification | 580 | Geometric transformation |
| 527 | Color | 581 582 | Size change Color signal |
| 528 | Including automatic gain control (AGC) | 582 583 | Rotation |
| 529 | To produce distinct vertical output | 584 | Combining plural sources |
| 530 | With distinct horizontal output | 585 | Including priority key |
| 531 | To produce distinct horizontal output | 586 | Foreground/background insertion |
| 532 | By amplitude | 587 | Including hue detection (e.g., |
| 533 | Noise reduction | 50, | chroma key) |
| 534 535 | Amplitude limitingNoise inversion | 588 | Multiple distinct images (e.g., |
| 536 | Noise inversion .Automatic phase or frequency control | | splitscreen) |
| 537 | Of sampling or clock | 589 | Including insertion of characters or |
| 538 | With data interpolation | | graphics (e.g., titles) |
| 539 | Color | 590 | Specified details of key signal |
| 540 | Horizontal sync component | 501 | generation or processing |
| 541 | Cascaded phase or frequency adjusting | 591 | Self keyers (e.g., key generated from video being mixed |
| 542 | Plural distinct operating modes | 592 | Chroma key (e.g., hue detector) |
| 543 | Line rates | 59 2 593 | Artificial key generation |
| 544 | Locking rates | 594 | Wipes signal generator |
| 545 | Different mode during vertical | 595 | Fades signal generator |
| | blanking | 596 | Window signal generator (e.g., |
| 546 | Countdown | | rectangle) |
| 547 | Vertical sync component | 597 | For generation of soft edge (e.g., |
| 548 | Countdown | | blending) |
| 549 | Using color subcarrier | 598 | Specified details of signal combining |
| 550 | .To achieve interlaced scanning | 599 | Color signal |
| 551 | .Of mechanical scan | 600 | Graphic or character insertion type |
| 552 | COMBINED WITH DIVERSE ART DEVICE (E.G., | 601 | Marker or pointer generator |
| | COMPUTER, TELEPHONE) | 602 | .Display controlled by ambient light |
| 553 | BASIC RECEIVER WITH ADDITIONAL FUNCTION | 603 | Specified color (e.g., saturation and |
| 554 | .Multimode (e.g., composite, Y, C; baseband RF) | CO.4 | contrast control) |
| 555 | For receiving more than one format at | 604 | .Including nonstandard signal detection controlling processing |
| 222 | will (e.g., NTSC/PAL) | 605 | .Including vertical interval reference |
| 556 | For format with different aspect ratio | 600 | (e.g., VIR) |
| 557 | Color processing | | |
| | = - | | |

[#] Title Change
* Newly Established Subclass

..Format detection

558

[@] Indent Change & Position Change

| | | | JANUARY 2007 |
|------------|---|------------|---|
| | IMAGE SIGNAL PROCESSING CIRCUITRY | 652 | Fleshtone corrector (e.g., fixed) |
| 606 | SPECIFIC TO TELEVISION | 653 | By phase change of chrominance signal or subcarrier |
| 606 | .Combined noise reduction and transition sharpening | 654 | By phase change of chrominance signal |
| 607 608 | Noise or undesired signal reductionProcessing at encoder or transmitter | 655 | or subcarrier .Color balance or temperature (e.g., |
| 609 | (e.g., pre-correction)Reduction of chrominance luminance | 656 | white balance)Receiver type |
| 003 | cross-talk (e.g., precomb) | 657 | Including feedback control |
| 610 | Adaptive | 658 | Including optical sensor to observe |
| 611 | To suppress echo | | display (e.g., CRT) |
| 612 | Color signals | 659 | .Matrixing or mixing |
| 613 | Complementary system (e.g., preemphasis - deemphasis) | 660 661 | DigitalMasking (e.g., R, G, B to R', G', B') |
| 614 | Ghost elimination (e.g., multipath) | 662 | |
| 615 | Blackspot or shading correction (e.g., | | inverter) |
| 616 | corrects for fixed pattern defects)Dropout compensator (e.g., replacement | 663 | .Chrominance-luminance signal separation |
| | type) | 664 665 | Logic circuit typeIncluding comb filter (e.g., using |
| 617 618 | For color televisionFor removal of low amplitude random | ccc | line, field, frame delays) |
| | noise (e.g., variable bandwidth) | 666 | Including adaptive artifacts removal (e.g., switchable trap or LPF in |
| 619 620 | Averaging typeUsing frame or field delays (e.g., | 667 | luma channel)Adaptive comb filter |
| 020 | motion adaptive) | 668 | Selects or blends two or more |
| 621 | For color television | | separated signals to derive output |
| 622 | Noise component generator, limiter, subtractor type | 669 | Including frame or field delays |
| 623 | Coring type | CTO | (e.g., motion adaptive) |
| 624 | For color television | 670 671 | Including frame or field delays |
| 625 | Transition or edge sharpeners | 672 | .Gray scale transformationUsing histogram |
| 626 627 | Scanning velocity modulation | 673 | Combined contrast control and |
| 627 | Including processing to prevent the addition of noise (e.g., coring | 674 | brightness or DC level controlNonlinear amplitude modification |
| | enhancement signal, noise responsive peaking control) | 074 | (e.g., gamma) |
| 628 | Vertical transition | 675 | Color television |
| 629 | Including horizontal transition | 676 | By adding outputs from parallel |
| 630 | Color television processing | 600 | channels |
| 631 | Luminance transition controls | 677 678 | With specified DC level control |
| 632 | chrominance transition .Sound muting | | Automatic range control (e.g., AGC, automatic contrast control) |
| 633 | Including picture blanking | 679 | Color television |
| 634 | .Picture blanking | 680 | At transmitter |
| 635 | For color television | 681 | Carrier envelope |
| 636 | At transmitter | 682 683 | Sync or blankingNoise reduction or elimination |
| 637 | Retrace type | 684 | Keyed |
| 638 | .Chrominance signal demodulator | 685 | Delayed AGC |
| 639 640 | Digital PAL signal | 686 | Manual contrast control (e.g., linear) |
| 641 | For quadrature signal (e.g., NTSC) | 687 | .Brightness control |
| 642 | .Color encoder or chrominance signal modulator | 688 | By subtracting averaged active video portion (e.g., flare) |
| 643 | .Color killer | 689 | With DC clamping |
| 644 | Including chrominance signal amplitude | 690 | .White limiter |
| | control | 691 | .DC insertion |
| 645 | <pre>.Chrominance signal amplitude control (e.g., saturation)</pre> | 692 693 | Color televisionAt transmitter |
| 646 | Digital | 694 | For plural signals or signal |
| 647 | Automatic | | components |
| 648 | Picture responsive (e.g., overload) | | |
| 649 | .Hue control | | |
| 650 | Scene by scene color correction | | |
| 651 | Digital | | |

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

| | IMAGE SIGNAL PROCESSING CIRCUITRY | 745 | With alignment, registration or focus |
|------------|---|-----|---|
| | SPECIFIC TO TELEVISION | 746 | Raster shape distortion |
| | .DC insertion | 747 | Raster size or position compensation |
| 695 | Level inserted during keying signals | 748 | With cooling device |
| | (e.g., keyed clamp) | 749 | Liquid |
| 696 | Insertion level derived by key signals | 750 | Plural parallel light modulators |
| 697 | Level derived within feedback path | 751 | Liquid crystal |
| 698 | Diode | 752 | Using birefringent or polarizing |
| 699 | .Motion vector generation | | medium (e.g., Kerr cell, Pockel's |
| 700 | .Motion dependent key signal generation | | cell, etc.) |
| | or scene change detection | 753 | Electron beam addressed |
| 701 | Specified processing of frame or field difference signal (e.g., noise | 754 | <pre>Acousto-optic (e.g., Bragg cell, etc.)</pre> |
| | reduction, key signal spreading) | 755 | Deformable medium |
| 702 | Composite color signal | 756 | With optical element |
| 703 | .Hue or saturation detector | 757 | Beam combining |
| 704 | .Sweep expansion or reduction | 758 | Plural serial light modulators |
| 705 | .Switching | 759 | Single light modulator |
| 706 | receiver type | 760 | Color TV |
| 707 | .Amplifiers | 761 | Liquid crystal |
| 708 | .Color television signal processing | 762 | Using birefringent or polarizing |
| 709 | Signal modification for one gun color tube (e.g., dot sequential) | | <pre>medium (e.g., Kerr cell, Pockel's cell, etc.)</pre> |
| 710 | Differential phase or amplitude | 763 | Electron beam addressed |
| | responsive | 764 | Deformable medium |
| 711 | Frequency response modification | 765 | Fluid |
| 712 | Luminance channel circuitry | 766 | Liquid crystal |
| 713 | Chrominance channel circuitry | 767 | Using birefringent or polarizing |
| 714 | .With details of static storage device | | medium (e.g., Kerr cell, Pockel's |
| 715 | For storing a sequence of frames or | | cell, etc.) |
| | fields | 768 | Electron beam addressed |
| 716 | Specified data formatting (e.g., | 769 | Acousto-optic |
| | memory mapping) | 770 | Deformable medium |
| 717 | Of color signal | 771 | Including solid-state deflection |
| 718 | Accessing circuitry | | elements (e.g., deformable mirror |
| 719 | Including processor interface (e.g., CPU) | 772 | <pre>device (DMD))Medium in tape, ribbon, or membrane</pre> |
| 720 | .Digital | | form |
| 721 | Plural processing units | 773 | Fluid medium |
| 722 | STUDIO EQUIPMENT | 774 | Deformed into diffraction grating |
| 723 | TELEVISION TRANSMITTER CIRCUITRY | | (e.g., using electron beam) |
| 724 | .Modulator | 775 | Having significant chemical |
| 725 | RECEIVER CIRCUITRY | | composition |
| 726 | .Demodulator | 776 | Cathode-ray tube image source |
| 727 | Color television | 777 | With intensifier |
| 728 | .Color television | 778 | Plural CRTs |
| 729 | .Television receiver adapted to receive | 779 | With optical element |
| | radio broadcast or in combination | 780 | Beam combining |
| | with radio receiver | 781 | With optical element |
| 730 | .Power supply | 782 | Mirror arrangement |
| 731 | .Tuning | 783 | Concave mirror |
| 732 | Search tuning | 784 | With correcting plate |
| 733 | Tuning voltage | 785 | Adjustable |
| 734 | .Remote control | 786 | With screen or absorption filter |
| 735 | .Automatic frequency control | 787 | Cabinet or chassis |
| 736 | Sound traps | 788 | Folding |
| 737 | .Intercarrier circuits | 789 | Cabinet or chassis |
| 738 | .Sound circuit | 790 | Liquid crystal |
| 739 | VIDEO DISPLAY | 791 | Color TV |
| 740 | Array of shutters | 792 | Scanning circuit |
| | _ | 126 | bouniting offourt |
| 741 | .Red-white phenomena | | |
| 742 743 | .Color sequential | | |
| 743 744 | With moving color filters .Projection device | | |
| 144 | • | | |
| | # Mitle Change | | A Indont Change |

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

| | | | | | _ |
|------------|---|------------|----------|-------------|---|
| | VIDEO DISPLAY | | 1 | _ | lasses beginning with |
| | Liquid crystal | | | | -subclasses. Each E- |
| | Scanning circuit | | 1 | | s in scope to a clas- preign classification |
| 793 | Interlacing | | 1 | | e, the European Clas- |
| 794 | With cabinet or housing structure | | | on system | |
| 795 | .Direct viewed light valve | | | _ | valent to an E-sub- |
| 796 | .Vacuum panel | | 1 | | in the subclass def- |
| 797 | .Gas discharge | | inition. | | ion to US documents |
| 798 | .Array of lamps | | | | classes by US examin- regularly classified |
| 799 | Color TV | | | | cording to the clas- |
| 800 | <pre>.Electroluminescent (e.g., scanned matrix, etc.)</pre> | | sificati | on practice | s of any foreign Of- n parentheses at the |
| 801 | Light emitting diode | | | | For example, "(EPO)" |
| 802 | Color TV | | | | title indicates both |
| 803 | Color TV | | | | patent documents, as EPO, are regularly |
| 804 | .With optical fiber device | | | - | ss. E-subclasses may |
| 805 | .Cathode-ray tube | | | | ter outside the scope |
| 806 | With distortion, alignment or focus | | of this | - | onsult their defini- |
| 807 | Color convergence correction | | | | uments themselves to |
| 808 | Color TV | | clarify | or interpre | t titles. |
| 809 | Separate electron beams in single tube | * F | 17.001 | | TESTING OR MEASURING FOR ON SYSTEMS OR THEIR DETAILS |
| 810 | One electron beam supplying more than | | | (EPO) | • |
| | one color | * E | 17.002 | .For telev | ision cameras (EPO) |
| 811 | Beam position indicating | * } | 17.003 | .For digita | al television systems (EPO) |
| 812 | Horizontal stripes | * F | 17.004 | .For color | television signals (EPO) |
| 813 | Photoelectric sensor | * } | 317.005 | .For recei | vers (EPO) |
| 814 | Secondary emission sensor | * F | 217.006 | Self-con | tained testing apparatus (EPO) |
| 815 | With electron-optical color selection | * E | 215.001 | | IC COLOR TELEVISION SYSTEMS; THEREOF (EPO) |
| 816 817 | With color specific optical deviceElectrochromic device | * F | 13.001 | | IC TELEVISION SYSTEMS; DETAILS |
| 818 | Protective device | | -12 000 | THEREOF | |
| | | * <u>F</u> | 13.002 | - | here the three-dimensional is obtained by means of at |
| 819 | Radiation protection for user | | | | wo 2D image signals from |
| 820 | External electric or magnetic effect | | | | nt viewpoint locations |
| 821 | Implosion protection | | | | nting the interocular |
| 822 | Tensioned band | | | distanc | e (EPO) |
| 823 | Protective glass or panel | * E | E13.003 | Stereosco | opic image signal generation |
| 824 | Bonded to CRT faceplate | | | (EPO) | |
| 825 | Support | * F | 313.004 | Using a | stereoscopic image camera |
| 826 | CRT having only support at front | | | (EPO) | |
| 005 | portion | * E | 313.005 | | a single 2D image pickup |
| 827 | CRT position adjustable by user | | | | or (EPO) |
| 828 | Deflection element support | * E | 313.006 | _ | spectral multiplexing, i.e., |
| 829 | Yoke | | | | ultaneously capturing several |
| 830 | Supported by CRT neck | | | - | metrical viewpoints separated different spectral |
| 831 | Adjustable | | | _ | racteristics (EPO) |
| 832 | With optical element | * 1 | 13.007 | | spatial multiplexing, i.e., |
| 833 | For line elimination | | | _ | ultaneously capturing several |
| 834 | Glare reduction | | | | metrical viewpoints on |
| 835 | Filters | | | - | ferent parts of the image |
| 836 | .Cabinet or chassis | | | pic | kup sensor (EPO) |
| 837 | With vehicle | * E | 13.008 | Using | the relative movement between |
| 838 | Portable | | | cam | era and object (EPO) |
| 839 | Modular | * E | 13.009 | _ | temporal multiplexing, i.e., |
| 840 | Multiple screens | | | | ernatively capturing several |
| 841 | Masking | | | _ | metrical viewpoints separated |
| 842 | Light shielding | a | 112 01 | | time (EPO) |
| 843 | Cabinet back | * E | 213.01 | Having | g a parallax barrier (EPO) |
| 844 | MISCELLANEOUS | | | | |
| | | | | | |

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

| | | | official 2007 |
|-----------|--|-----------|---|
| | STEREOSCOPIC TELEVISION SYSTEMS; DETAILS | * E13.029 | Using a lenticular screen (EPO) |
| | THEREOF (EPO) .Systems where the three-dimensional | * E13.03 | Using a parallax barrier, e.g., spatial light modulator (EPO) |
| | effect is obtained by means of at | * E13.031 | Using an array of controllable light |
| | least two 2D image signals from different viewpoint locations | | sources or a moving aperture or light source (EPO) |
| | representing the interocular distance (EPO) | * E13.032 | Using a varifocal lens or mirror (EPO) |
| | Stereoscopic image signal generation | * E13.033 | Color aspects (EPO) |
| | (EPO) | * E13.034 | Calibration aspects (EPO) |
| | Using a stereoscopic image camera (EPO) | * E13.035 | Using a digital micro mirror device (DMD) (EPO) |
| | Having a single 2D image pickup sensor (EPO) | * E13.036 | For viewing by the user with the aid of special glasses or head mounted |
| * E13.011 | Having a fly-eye lenticular screen (EPO) | | displays (HMD), i.e., stereoscopic displaying (EPO) |
| * E13.012 | Having a lenticular screen (EPO) | * E13.037 | With spectral multiplexing, i.e., |
| * E13.013 | Having a varifocal lens or mirror (EPO) | | simultaneously displaying left and right images separated using |
| * E13.014 | Having two 2D image pickup sensors representing the interocular distance (EPO) | | <pre>glasses with different spectral characteristics, e.g., anaglyph method or Pullfrich method (EPO)</pre> |
| * E13.015 | Having more than two 2D image pickup sensors (EPO) | * E13.038 | With polarization multiplexing, i.e., simultaneously displaying |
| * E13.016 | Calibration aspects (EPO) | | left and right images separated using glasses with different |
| * E13.017 | Having several image pickup sensors with different characteristics | | polarizing characteristics (EPO) |
| | other than location or field of | * E13.039 | With spatial multiplexing, i.e., |
| | view, e.g., different resolution, color pickup characteristic or | | simultaneously displaying left and right images on different |
| | additional depth information or, | | parts of the display screen and |
| | where the image signals of one | | using glasses to optically recombine the stereoscopic image, |
| | <pre>image pickup sensor are used to control the characteristics of at</pre> | | e.g., with prisms or mirrors |
| | least one other image pickup | * E13.04 | (EPO)With temporal multiplexing, i.e., |
| * E13.018 | sensor (EPO)In combination with an | B13.04 | alternatively displaying left and |
| | electromagnetic radiation source | | right images separated in time and using glasses to |
| | for Illuminating the subject (EPO) | | alternatively block the right and |
| * E13.019 | Color aspects (EPO) | 40 | left eye (EPO) |
| * E13.02 | With monoscopic to stereoscopic image conversion (EPO) | * E13.041 | With head mounted left-right displays (EPO) |
| * E13.021 | For generating stereoscopic image | * E13.042 | Using a half transparent mirror or prism (EPO) |
| | signals corresponding to more than two geometrical viewpoints (EPO) | * E13.043 | For displaying simultaneously more |
| * E13.022 | From a 3D object model, e.g., | | <pre>than two geometrical viewpoints, i.e., look-around effect without</pre> |
| | computer generated stereoscopic image signals (EPO) | | observer tracking (EPO) |
| * E13.023 | The virtual viewpoint location being | * E13.044 | For displaying monoscopic and |
| | selected by the observer, e.g., observer tracking (EPO) | | stereoscopic images or mixed monoscopic/stereoscopic images, |
| * E13.024 | For generating monoscopic and | | e.g., monoscopic and stereoscopic |
| | stereoscopic images or mixed | | <pre>image displaying modes or a stereoscopic image overlay window</pre> |
| | monoscopic/stereoscopic images, e.g., monoscopic and stereoscopic | | in a monoscopic image background |
| | image generating modes or a | * E13.045 | (EPO)Using observer tracking (EPO) |
| | stereoscopic image overlay window in a monoscopic image background | * E13.046 | For several observers (EPO) |
| | (EPO) | * E13.047 | For tracking with gaze detection, |
| * E13.025 | Synchronization or controlling aspects (EPO) | | <pre>i.e., detecting the lines of sight of the observers eyes (EPO)</pre> |
| * E13.026 | Stereoscopic image displaying (EPO) | | |
| * E13.027 | Using an autostereoscopic display, i.e., viewing by the user without | | |
| | the aid of special glasses (EPO) | | |
| * E13.028 | Using a fly-eye lenticular screen (EPO) | | |
| | (BEO) | | |

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

| | | | JANUARY 2007 |
|-----------|--|------------------------|---|
| | STEREOSCOPIC TELEVISION SYSTEMS; DETAILS THEREOF (EPO) | | e.g., with filtering or addition of monoscopic depth cues (EPO) |
| | .Systems where the three-dimensional effect is obtained by means of at least two 2D image signals from | * E13.068 | Format conversion of stereoscopic images, e.g., frame-rate, size, (EPO) |
| | different viewpoint locations representing the interocular distance (EPO) | * E13.069 | Equalizing the characteristics of different image components in stereoscopic images, e.g., |
| | Using observer tracking (EPO) | | average brightnesss or color balance (EPO) |
| * E13.048 | For tracking with variable interoccular distance or | * E13.07 | Switching stereoscopic image signals (EPO) |
| | rotational head movements around the vertical axes (EPO) | * E13.071 | Transmission of stereoscopic image signals (EPO) |
| * E13.049 | For tracking forward-backward translational head movements, i.e., longitudinal movements (EPO) | * E13.072 | Multiplexing or demultiplexing different image signal components in stereoscopic image signals (EPO) |
| * E13.05 | For tracking left-right translational head movements, | * E13.073 | Synchronization or controlling aspects (EPO) |
| | i.e., lateral movements (EPO) | * E13.074 | .Picture signal generators (EPO) |
| * E13.051 | For tracking rotational head | * E13.075 | .Picture reproducers (EPO) |
| | movements in a plane parallel to the screen (EPO) | * E11.001 | COLOR TELEVISION SYSTEMS (EPO) |
| * E13.052 | For tracking vertical translational | * E11.002 | .High definition systems (EPO) |
| | head movements (EPO)Alternating rapidly the location of | * E11.003 | Involving two-channel transmission (EPO) |
| * E13.053 | the left-right image components on the display screen (EPO) | * E11.004 | Involving bandwidth reduction, e.g., subsampling (EPO) |
| * E13.054 | Using a volumetric display, i.e., systems where the image is built | * E11.005 | With transmission of the extra information by means of quadrature modulation (EPO) |
| | up from picture elements distributed over a volume (EPO) | * E11.006 | .With bandwidth reduction (EPO) |
| * E13.055 | The picture elements emitting light where a pair of light beams intersect in a transparent | * E11.007 | .Transmission systems characterized by the manner in which the individual color picture signal components are combined (EPO) |
| | material (EPO) | * E11.008 | Using sequential signals only (EPO) |
| * E13.056 | <pre>The volume being generated by a moving, e.g., vibrating or rotating, surface (EPO)</pre> | * E11.009 | In which color signals are inserted in the blanking interval of brightness signal (EPO) |
| * E13.057 | With depth sampling, i.e., the volume being constructed from a | * E11.01 * E11.011 | Using simultaneous signals only (EPO)In which one signal, modulated in |
| | stack or sequence of 2D image planes (EPO) | 511.011 | phase and amplitude, conveys color |
| * E13.058 | Using an image projection screen (EPO) | | <pre>information and a second signal conveys brightness information, e.g., NTSC-system (EPO)</pre> |
| * E13.059 | Synchronization or controlling aspects (EPO) | * E11.012 | The chrominance signal alternating in phase, e.g., PAL-system (EPO) |
| * E13.06 | Stereoscopic image signal coding, multiplexing, processing, recording or transmission (EPO) | * E11.013 | A resolution-increasing signal being multiplexed to the PAL-system signal, e.g., |
| * E13.061 | Color aspects (EPO) | | PAL-System signal, e.g., PAL-PLUS-system (EPO) |
| * E13.062 | Coding or decoding stereoscopic image signals (EPO) | * E11.014 | Encoding means therefor (EPO)Decoding means therefor (EPO) |
| * E13.063 | Mixing stereoscopic image signals (EPO) | * E11.015 * E11.016 | Encoding means therefor (EPO) |
| * E13.064 | Processing stereoscopic image signals (EPO) | * E11.017 * E11.018 | Decoding means therefor (EPO)Using simultaneous and sequential |
| * E13.065 | Transformation of stereoscopic image signals corresponding to virtual viewpoints, e.g., spatial image interpolation (EPO) | * E11.019 * E11.02 | signals, e.g., SECAM-system (EPO)Encoding means therefor (EPO)Decoding means therefor (EPO) |
| * E13.066 | The virtual viewpoint location being selected by the observer, e.g., observer tracking with look around effect (EPO) | | |
| * E13.067 | Improving the 3D impression of a displayed stereoscopic image, | | |

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

| | | | UMIOMAL 2007 |
|----------------------|--|----------|---|
| | COLOR TELEVISION SYSTEMS (EPO) | * E9.026 | Using laser beams scanning the |
| | .Transmission systems characterized by the manner in which the individual | * E9.027 | display screen (EPO)Using light modulating optical valves |
| | <pre>color picture signal components are combined (EPO)</pre> | * E9.028 | (EPO) .Conversion of monochrome picture |
| * E11.021 | Conversion of the manner in which the individual color picture signal | | signals to color picture signals for color picture display (EPO) |
| | components are combined, e.g., | * E9.029 | .Color synchronization (EPO) |
| | conversion of color television standards (EPO) | * E9.03 | Generation or recovery of color sub-carriers (EPO) |
| * E11.022 | In which simultaneous signals are converted into sequential signals or vice versa (EPO) | * E9.031 | Generation of color burst signals; Insertion of color burst signals in |
| * E9.001 | DETAILS OF COLOR TELEVISION SYSTEMS (EPO) | | <pre>color picture signals or separation of color burst signals from color picture signals</pre> |
| * E9.002 | .Picture signal generators (EPO) | * E9.032 | Synchronization of the PAL-switch |
| * E9.003 | With one pick-up device only (EPO) | | (EPO) |
| * E9.004 | Whereby the color signals are | * E9.033 | For sequential signals (EPO) |
| * E9.005 | characterized by their phase (EPO)Whereby the color signals are | * E9.034 | For mutually locking different synchronization sources (EPO) |
| | characterized by their frequency (EPO) | * E9.035 | .Circuits for processing the brightness signal and the chrominance signal |
| * E9.006 | With more than one pick-up device (EPO) | | relative to each other, e.g., adjusting the phase of the |
| * E9.007 | Systems for avoiding or correcting | | brightness signal relative to the |
| | misregistration of video signals (EPO) | | color signal, correcting differential gain or differential |
| * E9.008 | Optical arrangements associated | * E9.036 | phaseFor separating the brightness signal |
| | therewith, e.g., for beam-splitting, for color correction (EPO) | " E9.036 | or the chrominance signal from the color television signal, e.g., |
| * E9.009 | Scanning of color motion picture films, e.g., for telecine (EPO) | * E9.037 | using comb filter (EPO) Circuits for processing color signals |
| * E9.01 | Using solid-state devices (EPO) | * E9.038 | (EPO)Multi-standard receivers (EPO) |
| * E9.011 | Using optical-mechanical scanning means only (EPO) | * E9.039 | Multi-standard receivers (EPO)Multi-purpose receivers, e.g., for auxiliary information (EPO) |
| * E9.012 * E9.013 | .Picture reproducers (EPO)Using optical-mechanical scanning | * E9.04 | Hue control means, e.g., flesh tone control (EPO) |
| + mo - 0.1 t | means only (EPO) | * E9.041 | Beam current control means (EPO) |
| * E9.014 * E9.015 | With variable depth of penetration of | * E9.042 | For image enhancement, e.g., vertical |
| | electron beam into the luminescent layer, e.g., penetrons (EPO) | | detail restoration, cross-color elimination, contour correction, chrominance trapping filters (EPO) |
| * E9.016 | Using separate electron beams for the | * E9.043 | I.F amplifiers (EPO) |
| * E9.017 | primary color signals (EPO)With more than one beam in a tube | * E9.044 | Video amplifiers (EPO) |
| " E9.U1/ | (EPO) | * E9.045 | For synchronous modulators (EPO) |
| * E9.018 | Using the same beam for more than one | * E9.046 | For synchronous demodulators (EPO) |
| | primary color information (EPO) | * E9.047 | For matrixing (EPO) |
| * E9.019 | Using means, integral with, or | * E9.048 | For color killing (EPO) |
| | external to, the tube, for producing signal indicating | * E9.049 | Combined with color gain control (EPO) |
| * E9.02 | instantaneous beam position (EPO)Using electron-optical color | * E9.05 | For reinsertion of dc and slowly varying components of color signal |
| | selection means, e.g., line grid, deflection means in or near the gun or near the phosphor screen (EPO) | * E9.051 | (EPO)Color balance circuits, e.g., white balance circuits, color temperature control (EPO) |
| * E9.021 | Arrangements for convergence or focusing (EPO) | * E9.052 | For picture signal generators (EPO) |
| * E9.022 | Using quadrupole lenses (EPO) | * E9.053 | For controlling the amplitude of color signals, e.g., automatic chroma |
| * E9.023 | Using demagnetization or compensation | | control circuits (EPO) |
| | of external magnetic fields (EPO) | | |
| * E9.024 | Using solid-state color display devices (EPO) | | |
| * E9.025 | Projection devices for color picture display (EPO) | | |
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[#] Title Change * Newly Established Subclass

[@] Indent Change & Position Change

| | | | JANUARY 2007 |
|----------|---|----------------------|--|
| | DETAILS OF COLOR TELEVISION SYSTEMS (EPO) .Circuits for processing color signals | | additional information signals, the signals occupying wholly or partially the same frequency band |
| | (EPO) | | (EPO) |
| | For controlling the amplitude of color signals, e.g., automatic chroma control circuits (EPO) | * E7.025 | The additional information signals being transmitted by means of a subcarrier (EPO) |
| * E9.054 | For modifying the color signals by gamma correction (EPO) | * E7.026 | With signal insertion during the vertical and the horizontal |
| * E9.055 | For obtaining special effects (EPO) | * E7.027 | blanking interval (EPO) |
| * E9.056 | Chroma key (EPO) | ~ E/.UZ/ | With signal insertion during the horizontal blanking interval (EPO) |
| * E9.057 | For mixing of color signals (EPO) | * E7.028 | The inserted signal being digital |
| * E7.001 | TELEVISION SYSTEMS (EPO) | | (EPO) |
| * E7.002 | Systems with supplementary picture signal insertion during a portion of the active part of a television signal, e.g., during top and bottom | * E7.029 | The signal being time-compressed before its insertion and subsequently decompressed at reception (EPO) |
| | lines in a HDTV letter-box system (EPO) | * E7.03 | . With signal insertion during the |
| * E7.003 | .Conversion of standards (EPO) | + D7 021 | vertical blanking interval (EPO) |
| * E7.004 | .High-definition television systems (EPO) | * E7.031 | The inserted signal being digital (EPO) |
| * E7.005 | Using spatial or temporal subsampling (EPO) | * E7.032 | The signal being time-compressed before its insertion and subsequently decompressed at |
| * E7.006 | Using pixel blocks (EPO) | | reception (EPO) |
| * E7.007 | With motion estimation, e.g., involving the use of motion vectors (EPO) | * E7.033 | For the transmission of character code signals, e.g., for teletext (EPO) |
| * E7.008 | Involving the resampling of the incoming video signal (EPO) | * E7.034 | For the transmission of additional display-information, e.g., menu |
| * E7.009 | Using a storage device with different write and read speed (EPO) | | for program or channel selection (EPO) |
| * E7.01 | Using beam gun storage (EPO) | * E7.035 | For the transmission of subtitles |
| * E7.011 | Using magnetic recording (EPO) | | (EPO) |
| * E7.012 | Involving interpolation processes (EPO) | * E7.036 | For the transmission of program or channel identifying signals (EPO) |
| * E7.013 | Involving the use of motion vectors (EPO) | * E7.037 * E7.038 | Subscription systems therefor (EPO)Using frequency interleaving, e.g., |
| * E7.014 | Dependent on presence/absence of motion, e.g., of motion zones (EPO) | * E7.039 | <pre>with precision offset (EPO)The signals being two or more video signals (EPO)</pre> |
| * E7.015 | One of the standards corresponding to a cinematograph film standard (EPO) | * E7.04 | Systems for the transmission of one television signal, i.e., both |
| * E7.016 | One of the standards being a high definition standard (EPO) | | picture and sound, by a single carrier (EPO) |
| * E7.017 | .Systems for the transmission of digital nonpicture data, e.g., of text | * E7.041 | The carrier being frequency modulated (EPO) |
| | during the active part of a television frame (EPO) | * E7.042 | Systems for the simultaneous transmission of one television |
| * E7.018 | Display systems therefor (EPO) | | signal, i.e., both picture and |
| * E7.019 | Subscription systems therefor (EPO) | | sound, by more than one carrier |
| * E7.02 | Circuits for the digital non-picture | | (EPO) |
| | data signal, e.g., for slicing of the data signal, for regeneration | * E7.043 * E7.044 | Simultaneous transmission of separate parts of one picture (EPO)The carriers being allocated to more |
| | of the data-clock signal, for error detection or correction of the data signal (EPO) | | than one television channel (EPO) |
| * E7.021 | For regeneration of the clock signal (EPO) | * E7.045 | Systems in which the television signal is transmitted via one channel or a plurality of parallel channels, the |
| * E7.022 | For discrimination of the binary level of the digital data, e.g., amplitude slicers (EPO) | | bandwidth of each channel being less than the bandwidth of the television signal (EPO) |
| * E7.023 | For error detection or correction (EPO) | | |
| * E7.024 | .Systems for the simultaneous or sequential transmission of more than one television signal, e.g., | | |
| | | | |

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

| | | | orangement 2007 |
|----------------------|---|----------|---|
| | TELEVISION SYSTEMS (EPO) .Systems in which the television signal | * E7.071 | Direct or substantially direct transmission and handling of requests (EPO) |
| | is transmitted via one channel or a plurality of parallel channels, the bandwidth of each channel being less than the bandwidth of the television | * E7.072 | With deferred transmission or handling of upstream communications (EPO) |
| * E7.046 | signal (EPO)Involving expansion and subsequent | * E7.073 | Handling of requests in head-ends (EPO) |
| 27.010 | compression of a signal segment, e.g., a frame, a line (EPO) | * E7.074 | Control of the passage of the selected program (EPO) |
| * E7.047 | The signal segment being a picture element (EPO) | * E7.075 | In an intermediate station common to a plurality of user terminals |
| * E7.048 | Systems in which different parts of the picture signal frequency band | * E7.076 | (EPO)At or near the user terminal (EPO) |
| | are individually processed, e.g., | * E7.077 | At of hear the user terminar (EFO) .Systems for two-way working (EPO) |
| | suppressed, transposed (EPO) | * E7.078 | Between two video terminals, e.g., |
| * E7.049 | .Adaptations for transmission by electric cable (EPO) | | videophone (EPO) |
| * E7.05 | For domestic distribution (EPO) | * E7079 | Constructional details of the terminal equipment, e.g., |
| * E7.051 | The cable being constituted by a pair of wires (EPO) | | arrangements of the camera and the display (EPO) |
| * E7.052 | <pre>Circuits therefor, e.g., noise reducers, equalizers, amplifiers (EPO)</pre> | * E7.08 | Camera and display on the same optical axis, e.g., optically multiplexing the camera and |
| * E7.053 | Switchers or splitters (EPO) | | display for eye to eye contact |
| * E7.054 | .Secrecy systems; Subscription systems (EPO) | * E7.081 | (EPO)Communication arrangements, e.g., |
| * E7.055 | Systems rendering the television signal unintelligible and subsequently intelligible (EPO) | | <pre>identifying the communication as a video-communication, intermediate storage of the signals (EPO)</pre> |
| * E7.056 | Providing digital key or authorization information for generation or regeneration of the | * E7.082 | Interfacing a video terminal to a particular transmission medium, e.g., ISDN (EPO) |
| | scrambling sequence (EPO) | * E7.083 | . Conference systems (EPO) |
| * E7.057 | Systems operating in the time domain of the television signal (EPO) | * E7.084 | Multipoint control units therefor (EPO) |
| * E7.058 | By displacing synchronization signals relative to active picture signals or vice versa | * E7.085 | <pre>.Closed circuit television systems, i.e., systems in which the signal is not broadcast (EPO)</pre> |
| | (EPO) | * E7.086 | For receiving images from a plurality |
| * E7.059 | By changing or reversing the order of active picture signal portions (EPO) | * E7.087 | of remote sources (EPO)For receiving images from a single |
| * E7.06 | Authorizing the user terminal, e.g., by paying; Registering the use of a | * E7.088 | remote source (EPO)From a mobile camera, e.g., for |
| | subscription channel, e.g., billing | * E7.089 | remote control (EPO)Video door telephones (EPO) |
| * E7 061 | (EPO)By receiver means only (EPO) | * E7.09 | Capturing isolated or intermittent |
| * E7.061 * E7.062 | Coin-freed apparatus (EPO) | | images triggered by the occurrence |
| * E7.063 | Contralized control of user terminal; Registering at central (EPO) | | of a predetermined event, e.g., an object reaching a predetermined position (EPO) |
| * E7.064 | Constructional details of the subscriber equipment (EPO) | * E7.091 | Special television systems not provided for by E7.002 to E7.085 (EPO) |
| * E7.065 | Passage/non-passage of the television signal, e.g., jamming, band | * E7.092 | Using at least one opto-electrical conversion device (EPO) |
| * E7.066 | suppression (EPO)Systems operating in the amplitude | * E7.093 | .Adaptations for transmission via a GHz frequency band, e.g., via satellite |
| | domain of the television signal (EPO) | * E7.094 | (EPO) .Adaptations for optical transmission |
| * E7.067 | By modifying synchronization signals (EPO) | | (EPO) |
| * E7.068 | By inverting the polarity of active picture signal portions (EPO) | | |
| * E7.069 | With two-way working, e.g., subscriber sending a program selection signal (EPO) | | |
| * E7.07 | Transmission or handling of upstream communications (EPO) | | |

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

| | | | OMOM(1 200) |
|-----------|---|----------|---|
| | | * E3.033 | By deflecting electron beam in |
| * E3.001 | SCANNING DETAILS OF TELEVISION SYSTEMS (EPO) | * E3.034 | cathode-ray tube (EPO)Generation of supply voltages, in |
| * E3.002 | .Scanning of motion picture films, e.g., for telecine (EPO) | 13.034 | combination with electron beam deflecting (EPO) |
| * E3.003 | With continuously moving film (EPO) | * E3.035 | Maintaining dc voltage constant (EPO) |
| * E3.004 | With intermittently moving film (EPO) | * E3.036 | Using regulation in parallel (EPO) |
| * E3.005 | With film moving only during the | * E3.037 | Using regulation in series (EPO) |
| + 112 006 | field blanking interval (EPO) | * E3.038 | Arrangements or assemblies in supply |
| * E3.006 | By optical-mechanical means only (EPO) | | circuits for the purpose of withstanding high voltages (EPO) |
| * E3.007 | . Having a moving aperture (EPO) | * E3.039 | Prevention of damage to cathode-ray |
| * E3.008 | Having a moving lens or other refractor (EPO) | 23.033 | tubes in the event of failure of scanning (EPO) |
| * E3.009 | Having a moving reflector (EPO) | * E3.04 | Circuits for controlling dimension, |
| * E3.01 | For electromagnetic radiation in the invisible region, e.g., infra-red (EPO) | | shape or centering of picture on screen (EPO) |
| * E3.011 | .By means not exclusively | * E3.041 | ·Controlling dimensions (EPO) |
| | optical-mechanical (EPO) | * E3.042 | Centering (EPO) |
| * E3.012 | By switched stationary formation of lamps, photocells or light relays (EPO) | * E3.043 | Distortion correction, e.g., for pincushion distortion correction, S-correction (EPO) |
| * E3.013 | Using cathode rays, e.g., multivision | * E3.044 | Using active elements (EPO) |
| | (EPO) | * E3.045 | With calculating means (EPO) |
| * E3.014 | Using gas discharges, e.g., plasma | * E3.046 | Using passive elements, e.g., diodes (EPO) |
| * E3.015 | Using liquid crystals (EPO) | * E3.047 | Blanking circuits (EPO) |
| * E3.016 | By means of electrically scanned | * E3.048 | Modifications of scanning |
| * E3.017 | solid-state devices (EPO) | | arrangements to improve focusing (EPO) |
| * E3.017 | For picture signal generation (EPO) | * E3.049 | Circuits special to multi-standard |
| . 23.010 | Control of the image-sensor operation, e.g., image processing | | receivers (EPO) |
| | within the image-sensor (EPO) | * E3.05 | Producing multiple scanning, i.e., using more than one spot at the |
| * E3.019 | For variable integration time (EPO) | | same time (EPO) |
| * E3.02 | For selective scanning, e.g., windowing, zooming (EPO) | * E3.051 | Otherwise than with constant velocity |
| * E3.021 | For disturbance correction or prevention within the | | or otherwise than in pattern formed by unidirectional, straight, |
| | <pre>image-sensor, e.g., biasing, blooming, smearing (EPO)</pre> | | substantially horizontal or vertical lines (EPO) |
| * E3.022 | Picture signal readout register, | * E3.052 | Velocity varied in dependence upon |
| | e.g., shift registers, interline | * E3.053 | picture information (EPO)Elemental scanning area oscillated |
| | shift registers (EPO) | " E3.033 | rapidly in direction transverse to |
| * E3.023 | With charge transfer within the | | main scanning direction (EPO) |
| | <pre>image-sensor, e.g., time delay and integration (EPO)</pre> | * E5.001 | DETAILS OF TELEVISION SYSTEMS (EPO) |
| * E3.024 | Using frame-interline transfer | * E5.002 | .Multimedia set-top circuitry for |
| | (EPO) | | digital video services (EPO) |
| * E3.025 | Using interline transfer (EPO) | * E5.003 | Downstream channel decoding therefor (EPO) |
| * E3.026 | Using frame transfer (EPO) | * E5.004 | Involving conditional access (EPO) |
| * E3.027 | Using linear image-sensor (EPO) | * E5.005 | Transport demultiplexing therefor |
| * E3.028 | With addressing of the image-sensor elements (EPO) | | (EPO) |
| * E3.029 | For MOS image-sensors, e.g., | * E5.006 | Operative control therefor (EPO) |
| * E3.03 | MOS-CCD (EPO)Using charge injection within the | * E5.007 | Involving digital storage medium interfacing (EPO) |
| | image-sensor (EPO) | * E5.008 | .Multimedia server circuitry for digital video services (EPO) |
| * E3.031 | The image being sequentially picked-up by one device at different imaging positions, e.g., by shifting the image-sensor (EPO) | * E5.009 | .Synchronizing (EPO) |
| * E3.032 | The image being simultaneously | | |
| | picked-up by more than one | | |
| | device, e.g., the scene being | | |
| | partitioned into subimages (EPO) | | |

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

| | DETAILS OF TELEVISION SYSTEMS (EPO) .Synchronizing (EPO) | * E5.036 | Combination of two or more compensation controls (EPO) |
|----------------------|---|---------------------|--|
| * E5.01 | Synchronizing circuits with | * E5.037 | By influencing the exposure time, |
| | arrangements for extending range of synchronization, e.g., by using | * E5.038 | <pre>e.g., shutter (EPO)By influencing the scene brightness</pre> |
| | switching between several time constants (EPO) | * E5.039 | using illuminating means (EPO)By influencing at least one of the |
| * E5.011 | Generation of synchronizing signals (EPO) | * E5.04 | <pre>pick-up tube voltages (EPO)By influencing the optical part of</pre> |
| * E5.012 | Arrangements or circuits at the transmitter end (EPO) | * E5.041 | the camera (EPO)By influencing the picture signal |
| * E5.013 | For mixing the synchronizing signals | | (EPO) |
| | with the picture signal or mutually (EPO) | * E5.042 | Devices for controlling television cameras, e.g., remote control |
| * E5.014 | of synchronizing signals, e.g., | * E5.043 | (EPO)Remote control signaling for |
| * E5.015 | studios or relay stations (EPO)For distributing synchronization | | television cameras or for parts of television camera, e.g., |
| 10.013 | pulses to different TV cameras (EPO) | | between main body and part of camera (EPO) |
| * E5.016 | Using digital storage buffer techniques (EPO) | * E5.044 | For interchangeable parts of television camera (EPO) |
| * E5.017 | Separation of synchronizing signals | * E5.045 | Focusing (EPO) |
| * E5.018 | from picture signals (EPO)Separation of line synchronizing | * E5.046 | For stable pick-up of the scene in spite of camera body vibration |
| - E3.010 | signal from frame synchronizing | | (EPO) |
| | signal (EPO) | * E5.047 | View-finder (EPO) |
| * E5.019 | Devices in which the synchronizing signals are only operative if a | * E5.048 | Arrangements of television cameras (EPO) |
| | phase difference occurs between synchronizing and synchronized | * E5.049 | Picture signal generating by scanning |
| | scanning devices, e.g., flywheel | | motion picture films or slide opaques, e.g., for telecine (EPO) |
| | synchronizing (EPO) | * E5.05 | Picture signal generators using |
| * E5.02 | Whereby the synchronization signal directly commands a frequency | | flying-spot scanners (EPO) |
| | generator (EPO) | * E5.051 | Studio circuits, e.g., for mixing, switching-over, change of character |
| * E5.021 | Whereby the synchronization signal indirectly commands a frequency | | of image, other special effects (EPO) |
| | generator (EPO) | * E5.052 | Signal amplitude transition in the |
| * E5.022 | .Studio circuitry; Studio devices; Studio equipment (EPO) | | zone between image portions, e.g., soft edges (EPO) |
| * E5.023 | Prompting (EPO) | * E5.053 | For obtaining an image which is |
| * E5.024 * E5.025 | Television cameras (EPO) | | composed of whole input images, |
| * E5.025 | Constructional details (EPO)Housings (EPO) | * E5.054 | e.g., splitscreen (EPO)For obtaining an image which is |
| * E5.027 | Mounting of pick-up device, | E3.034 | composed of images from a temporal |
| * E5.028 | deviation or focusing coils (EPO)Mounting of optical parts, e.g., | | <pre>image sequence, e.g., for a stroboscopic effect (EPO)</pre> |
| | lenses, shutters, filters (EPO) | * E5.055 | Alteration of picture size, shape, |
| * E5.029 | Provided with illuminating means (EPO) | | <pre>position or orientation, e.g., zooming, rotation, rolling, perspective, translation (EPO)</pre> |
| * E5.03 | Means for changing the camera's field | * E5.056 | Mixing (EPO) |
| | of view without moving the camera body, e.g., nutating or panning optics or image-sensors (EPO) | * E5.057 | Signal distribution or switching (EPO) |
| * E5.031 | Circuit details for pick-up tubes (EPO) | * E5.058 | Means for inserting a foreground image in a background image, i.e., |
| * E5.032 | Beam current control (EPO) | | inlay, outlay (EPO) |
| * E5.033 | During retrace periods, e.g., circuits for ACT tubes, leg | * E5.059 * E5.06 | Generation of keying signals (EPO)Subtitling (EPO) |
| * E5.034 | suppression (EPO)Circuitry for compensating for variation in the brightness of the object (EPO) | * E5.061 | Mobile studios (EPO) |
| * E5.035 | Circuitry for evaluating the brightness variations of the object (EPO) | | |

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

| | DETAILS OF TELEVISION SYSTEMS (EPO) | * E5.096 | .Receiver circuitry (EPO) |
|----------|--|----------|--|
| * E5.062 | Picture signal circuitry for video frequency region (EPO) | * E5.097 | Tuning indicators; Automatic tuning control (EPO) |
| * E5.063 | Beam current control means (EPO) | * E5.098 | Invisible or silent tuning (EPO) |
| * E5.064 | Edging; Contouring (EPO) | * E5.099 | For displaying additional information |
| * E5.065 | Movement detection (EPO) | | (EPO) |
| * E5.066 | Movement estimation (EPO) | * E5.1 | Circuit details of the additional |
| * E5.067 | Scene change detection (EPO) | | information generator, e.g., |
| * E5.068 | Video amplifiers (EPO) | | details of the character or |
| * E5.069 | Circuitry for reinsertion of dc and | | graphics signal generator, overlay mixing circuits (EPO) |
| | <pre>slowly varying components of signal; Circuitry for preservation of black or white level (EPO)</pre> | * E5.101 | Multiplexed with a digital video signal (EPO) |
| * E5.07 | To maintain the black level constant (EPO) | * E5.102 | For displaying or controlling a single function of one single |
| * E5.071 | By means of "clamp" circuit operated by switching circuit (EPO) | | apparatus, e.g., TV receiver or VCR (EPO) |
| * E5.072 | For the black level (EPO) | * E5.103 | The additional information being |
| * E5.073 | Circuitry for controlling amplitude | | controlled by a remote control |
| B3.073 | response (EPO) | 1 =5 404 | apparatus (EPO) |
| * E5.074 | Gamma control (EPO) | * E5.104 | The additional information being displayed in a separate window, |
| * E5.075 | For correcting amplitude versus frequency characteristic (EPO) | | e.g., by using splitscreen display (EPO) |
| * E5.076 | For compensating for attenuation of | * E5.105 | Menu-type displays (EPO) |
| | high frequency components, e.g., | * E5.106 | I.F. amplifier-circuits as far as |
| | crispening, aperture distortion | | concerned for B&W-TV (EPO) |
| | correction (EPO) | * E5.107 | For frame-grabbing (EPO) |
| * E5.077 | Circuitry for suppressing or minimizing disturbance, e.g., | * E5.108 | For the reception of a digital modulated video signal (EPO) |
| * E5.078 | moire, halo (EPO)In picture signal generation (EPO) | * E5.109 | For progressive scanning (EPO) |
| * E5.079 | In picture signal generation (EPO)In solid-state picture signal | * E5.11 | For flicker reduction (EPO) |
| * E5.08 | generation (EPO)Suppression of excedentary charges, | * E5.111 | <pre>For displaying different aspect ratios (EPO)</pre> |
| . EJ.00 | e.g., blooming, smearing (EPO) | * E5.112 | Picture in picture (EPO) |
| * E5.081 | Correction or equalization of | * E5.113 | Demodulation-circuits (EPO) |
| | amplitude response, e.g., dark current, blemishes, | * E5.114 | For receiving on more than one standard at will (EPO) |
| | non-uniformity (EPO) | * E5.115 | Automatic gain control (EPO) |
| * E5.082 | By initial calibration, e.g., with | * E5.116 | Keyed automatic gain control (EPO) |
| * E5.083 | memory means (EPO)Circuitry for suppressing or | * E5.117 | For positively-modulated picture signals (EPO) |
| * E5.084 | minimizing impulsive noise (EPO)Ghost signal cancellation (EPO) | * E5.118 | For negatively-modulated picture signals (EPO) |
| * E5.085 | .Transforming light or analogous information into electric | * E5.119 | Control of contrast or brightness (EPO) |
| * E5.086 | information (EPO) | * E5.12 | In dependence upon ambient light (EPO) |
| * E5.087 | Transforming X-rays (EPO)With video transmission of | * E5.121 | In dependence upon beam current of |
| - E3.007 | fluoroscopic images (EPO) | 10.121 | cathode ray tube (EPO) |
| * E5.088 | Image enhancement, e.g., by | * E5.122 | For the sound signals (EPO) |
| | subtraction techniques using | * E5.123 | For digital sound signals (EPO) |
| | polyenergetic X-rays (EPO) | * E5.124 | According to the NICAM system (EPO) |
| * E5.089 | Using subtraction imaging techniques (EPO) | * E5.125 | For more than one sound signal, e.g., stereo, multilanguages (EPO) |
| * E5.09 | Transforming infra-red radiation (EPO) | * E5.126 | Intercarrier circuits, i.e., |
| * E5.091 | Using electrically scanned solid-state devices (EPO) | | heterodyning sound and vision carriers (EPO) |
| * E5.092 | With digital output of the sensor cell, e.g., dynamic RAM image sensors (EPO) | * E5.127 | Generation or supply of power specially adapted for television receivers (EPO) |
| * E5.093 | .Transmitter circuitry (EPO) | | |
| * E5.094 | Modulation circuits (EPO) | | |
| * E5.095 | For transmitting at will black-and-white or color signals (EPO) | | |

[#] Title Change * Newly Established Subclass

(EPO)

[@] Indent Change & Position Change

| * E5.128 | DETAILS OF TELEVISION SYSTEMS (EPO) .Constructional details of receivers, | | FOREIGN ART COLLECTIONS |
|----------|---|---------------------|---|
| * E5.129 | e.g., cabinets, dust covers (EPO)Mounting of picture tube on chassis or | FOR 000 | CLASS-RELATED FOREIGN DOCUMENTS |
| | in housing (EPO) | | eign patents or non-patent liter- |
| * E5.13 | Disposition of sound reproducers (EPO) | | rom subclasses that have been re- ied have been transferred direct- |
| * E5.131 | Holding-devices for protective discs or for picture masks (EPO) | ly to | FOR Collections listed below. |
| * E5.132 | <pre>Construction or mounting of chassis, e.g., for varying the elevation of the tube (EPO)</pre> | patents parenthe | or non-patent literature. The etical references in the Collectles refer to the abolished sub- |
| * E5.133 | .Transforming electric information into light information (EPO) | classes were de | from which these Collections rived. |
| * E5.134 | Circuit details for cathode-ray display tubes (EPO) | FOR 100 | BANDWIDTH REDUCTION SYSTEM (348/384) |
| * E5.135 | Circuit details for electroluminescent devices (EPO) | FOR 101 | .Plural video programs in single channel (348/385) |
| * E5.136 | .Modifying the appearance of television | FOR 102 | Color television (348/386) |
| | pictures by optical filters or | FOR 103 | .Bit-rate reduction (348/387) |
| * E5.137 | diffusing screens (EPO) .Projection arrangements for image | FOR 104 | .Multiple channel (e.g., plural carrier) (348/388) |
| 23.23, | reproduction, e.g., using eidophor (EPO) | FOR 105 | Including one conventional or compatible channel (e.g., two |
| * E5.138 | Direct viewing projectors, e.g., an | FOR 106 | channel NTSC systems) (348/389) .Bit-rate reduction (348/390) |
| | image displayed on a video CRT or LCD display being projected on a | FOR 100 | Specified color signal (348/391) |
| | screen (EPO) | FOR 108 | Sub-Nyquist sampling (348/392) |
| * E5.139 | Involving the use of a spatial light | FOR 103 | Direct coding of color composite |
| БУ.137 | modulator, e.g., a light valve, | rok 105 | signal (348/393) |
| | controlled by a video signal (EPO) | FOR 110 | Predictive coding (348/394) |
| * E5.14 | The modulator being a dielectric | FOR 111 | Transform coding (348/395) |
| | deformable layer controlled by an electron beam, e.g., eidophor | FOR 112 | Including luminance signal (348/396) |
| * E5.141 | projector (EPO)The modulator being an array of | FOR 113 | Using separate coders for different picture features (e.g., highs, |
| ED.TAT | liquid crystal cells (EPO) | FOR 114 | lows) (348/397)Sub-band encoding (e.g., low |
| * E5.142 | The modulator being an array of deformable mirrors, e.g., digital micromirror device (DMD)(EPO) | | horizontal/low vertical frequency, low horizontal/high vertical frequency) (348/398) |
| * E5.143 | Constructional details of television projection apparatus (EPO) | FOR 115 | Picture feature dependent sampling rate or sample selection (348/399) |
| * E5.144 | For multi-screen projection (EPO) | FOR 116 | Involving hybrid transform and |
| * E5.145 | Of head mounted projectors (EPO) | FOR 117 | difference coding (348/400) |
| | CROSS-REFERENCE ART COLLECTIONS | FOR 117 | With prior difference coding (348/401) |
| | ******** | FOR 118 | Including motion vector (348/402) |
| 901 | HIGH SPEED TELEVISION SYSTEM | FOR 119 | Involving transform coding (348/403) |
| 902 | PHOTOCHROMIC | FOR 120 | Adaptive (348/404) |
| 903 | INCLUDING SIDE PANEL INFORMATION IN | FOR 121 | Quantizer (348/405) |
| | SINGLE CHANNEL | FOR 122 | Normalizer (348/406) |
| 904 | SEPARATION OR JOINING OF SIDE AND CENTER PANELS | FOR 123 | Motion (348/407) |
| 905 | REPRODUCTION OF A COLOR FIELD OR FRAME | FOR 124 | Transformed sample selection (e.g., hierarchical sample selection) |
| 908 | CONVERTIBLE CIRCUITS (E.G., Y/C SEPARATION OR NOISE REDUCTION) | FOR 125 | (348/408)Involving difference transmission |
| 909 | NOISE RESPONSIVE SIGNAL PROCESSING | FOR IZE | (348/409) |
| 910 | FLICKER REDUCTION | FOR 126 | Involving both PCM and DPCM encoding |
| 911 | LINE DOUBLER ADAPTED FOR REPRODUCING PROGRAM ORIGINALLY FROM FILM (E.G., | FOR 127 | (348/410)Plural predictors (348/411) |
| 912 | 24 FRAME PER SECOND) DIFFERENTIAL AMPLITUDE CONSIDERATION (E.G., AMPLITUDE VS. FREQUENCY) | | |
| 913 | LETTERBOX (E.G., DISPLAY 16:9 ASPECT RATIO IMAGE ON 4:3 SCREEN) | | |
| 914 | DELAY FOR EQUALIZATION | | |
| | | | |

[#] Title Change * Newly Established Subclass

[@] Indent Change & Position Change

| | | | Olivoriti 2007 |
|----------|---|--------------------|--|
| | BANDWIDTH REDUCTION SYSTEM (348/384) .Bit-rate reduction (348/390) | | sum and difference, high band/low band) (438/438) |
| | Involving difference transmission (348/409) | FOR 159 | Frame field or line dropping followed by time expansion and time compression (348/439) |
| TOP 100 | Plural predictors (348/411) | FOR 160 | .Scan rate variation (348/440) |
| FOR 128 | Including temporal predictor (e.g., frame difference) (348/412)Including motion vector (348/413) | FOR 161 | .With electronic viewfinder or display monitor (348/333) |
| FOR 129 | Involving vector quantization | FOR 162 | With indicium (348/334) |
| FOR 130 | (348/414) | FOR 163 | USE SURVEY AND ACCOUNTING (348/1) |
| FOR 131 | Including temporal prediction (e.g., frame difference) (348/415) | FOR 164 | .Monitoring of physical reaction of viewer (348/2) |
| FOR 132 | Including motion vector (348/416) | FOR 165 | .With billing (348/3) |
| FOR 133 | Involving vector quantization (348/417) | FOR 166 | .Monitoring of synchronization or blanking pulse (e.g., horizontal or vertical pulse signal) (348/4) |
| FOR 134 | Involving vector quantization (348/418) | FOR 167 | .With video cassette recorder (VCR) |
| FOR 135 | Coding element controlled by buffer fullness (e.g., adaptive quantizer) (348/419) | FOR 168 | (348/5) USE OR ACCESS BLOCKING (E.G., LOCKING SWITCH) (348/5.5) |
| FOR 136 | Involving block coding (348/420) | FOR 169 | WIRED BROADCAST (E.G., CABLE) (348/6) |
| FOR 137 | PCM represents minimum, maximum, or | FOR 170 | .Broadcast on demand (348/7) |
| FOR 137 | average of block (348/421) | FOR 171 | .Local distribution (e.g., hotel, |
| FOR 138 | Involving vector quantization | | hospital, vehicle, etc.) (348/8) |
| FOR 139 | (348/422) Arrangements for multiplexing one video signal, one or more audio | FOR 172 | .Controlled signal substitution (e.g., emergency warning, local preemption, etc.) (348/9) |
| | signals, and a synchronizing signal (348/423) | FOR 173 | .With subscriber terminal details (348/10) |
| FOR 140 | Sub-Nyquist sampling (348/424) | FOR 174 | For frequency conversion (348/11) |
| FOR 141 | Adaptive (348/425) | FOR 175 | .Two-way (348/12) |
| FOR 142 | Associated signal processing (348/845) | FOR 176 | TWO-WAY (E.G., INTERACTIVE) (348/13) |
| FOR 143 | Involving error detection or correction (348/845.1) | FOR 177 | .With voice capability (e.g., videophone) (348/14) |
| FOR 144 | Involving signal formatting | FOR 178 | Conferencing (348/15) |
| 1011 111 | (348/845.2) | FOR 179 | Switching (348/16) |
| FOR 145 | Involving synchronization (348/845.3) | FOR 180 | Transmission scheme (348/17) |
| FOR 146 | .Format type (e.g., HDTV or EDTV) (348/426) | FOR 181 | Still frame (i.e., freeze frame) (348/18) |
| FOR 147 | Including frequency folding (e.g., subsampling) (348/427) | FOR 182 | Field or frame difference (e.g., moving frame) (348/19) |
| FOR 148 | Spotwobble (e.g., pixels from plural lines form single transmitted | FOR 183 | User positioning (e.g., parallax) (348/20) |
| EOD 140 | line) (348/428) | FOR 184 | CAMERA, SYSTEM AND DETAIL (348/207) |
| FOR 149 | Including video related information (e.g., digitally assisted | FOR 185 | .Camera image stabilization (348/208) |
| | television) (348/429) | FOR 186 | .With flying spot scanner (348/209) |
| FOR 150 | Using two or more frames (348/430) | FOR 187 | For color scanning (348/210) |
| FOR 151 | Motion adaptive (348/431) | FOR 188 | .Remote control (348/211) |
| FOR 152 | Added video information in standard | FOR 189 | By multiplexed control signals (e.g., |
| | channel format (e.g., compatible EDTV) (348/432) | FOR 190 | duplexing, etc.) (348/212)Preprogrammed or stored control |
| FOR 153 | Including additional modulation of | DOD 101 | instructions (348/213) |
| | picture carrier (e.g., quadrature) | FOR 191 | Body movement actuation (348/214) |
| | (348/433) | FOR 192 | .With streak device (348/215) |
| FOR 154 | Including information in sync, blanking, or overscan (348/434) | FOR 193 FOR 194 | .Low light level (348/216)With image intensifier (348/217) |
| FOR 155 | During vertical blanking interval (348/435) | | |
| FOR 156 | Including the use of a subcarrier (348/436) | | |
| FOR 157 | .Individual processing of different parts of image frequency band (e.g., sum and difference, high band/low band) (348/437) | | |
| FOR 158 | .Individual processing of different parts of image frequency band (e.g., | | |

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

| | CAMERA, SYSTEM AND DETAIL (348/207) |
|---------|---|
| FOR 195 | .Unitary image formed by compiling |
| | sub-areas of same scene (e.g., array |
| | of cameras) (348/218) |
| FOR 196 | .Swing driven |
| FOR 197 | Still and motion modes of operation (348/220) |
| FOR 198 | Exposure control (348/221) |
| FOR 199 | .Combined image signal generator and general image signal processing (348/222) |
| FOR 200 | Color balance (e.g., white balance) (348/223) |
| FOR 201 | Dependent upon operation or characteristic of iris, flash, lens, or filter (348/224) |
| FOR 202 | With means for preventing colored object from effecting color balance (348/225) |
| FOR 203 | Including flicker detection (e.g., fluorescent (348/226) |
| FOR 204 | With ambient light sensor (348/227) |
| FOR 205 | Responsive to output signal (348/228) |
| FOR 206 | Combined automatic gain control and exposure control (i.e., sensitivity control (348/229) |
| FOR 207 | Readout of solid-state image sensor considered or altered (348/230) |
| FOR 208 | With details of static memory for output image (e.g., for a still camera) (348/231) |
| FOR 209 | With storage of additional, non-image information (e.g., audio, time, date) (348/232) |
| FOR 210 | Detachable (348/233) |
| FOR 211 | Electronic zoom (348/240) |
| FOR 212 | Variable magnification (i.e., zoom) (348/358) |

[#] Title Change
* Newly Established Subclass

C. CHANGES TO THE U.S. ECLA CONCORDANCE

| Class | Subclass | Subclass | Notation |
|-----------|--|---------------|--|
| Class 348 | Subclass E3.001 E3.002 E3.003 E3.004 E3.005 E3.006 E3.007 E3.008 E3.009 E3.01 E3.011 E3.012 E3.013 E3.014 E3.015 E3.016 E3.017 E3.018 E3.019 E3.02 E3.021 E3.022 E3.023 E3.024 E3.025 E3.026 E3.027 E3.028 E3.027 E3.028 E3.029 E3.03 E3.031 E3.032 E3.033 E3.031 E3.035 E3.036 E3.037 E3.038 E3.037 E3.038 E3.039 E3.041 E3.041 E3.042 E3.043 E3.045 E3.046 E3.047 E3.048 E3.049 | Subclass H04N | Notation 3/00 3/36 3/38 3/40 3/40B 3/02 3/04 3/06 3/08 3/09 3/10 3/12 3/12C 3/12G 3/12L 3/14 3/15 3/15E 3/15E2 3/15E4 3/15E6 3/15F 3/15D 3/15D2 3/15D4 3/15D6 3/15C 3/15C4 3/15C6 3/15C 3/15C4 3/15C6 3/15H 3/15J 3/16 3/18 3/185 3 |
| | E3.05 | | 3/28 |

| Class | Subclass | Subclass | Notation |
|-------|--|----------|---|
| 348 | E3.051 E3.052 E3.053 E5.001 E5.002 E5.003 E5.004 E5.005 E5.006 E5.007 E5.008 E5.009 E5.01 E5.011 E5.012 E5.013 E5.014 E5.015 E5.016 E5.017 E5.018 E5.019 E5.02 E5.021 E5.022 E5.021 E5.022 E5.023 E5.024 E5.025 E5.026 E5.027 E5.028 E5.027 E5.028 E5.029 E5.033 E5.031 E5.032 E5.033 E5.031 E5.032 E5.033 E5.031 E5.033 E5.034 E5.035 E5.036 E5.037 E5.038 E5.039 E5.040 E5.041 E5.042 E5.043 E5.044 E5.045 E5.044 E5.045 E5.046 E5.047 E5.048 E5.049 E5.05 | H04N | 3/30 3/32 3/34 5/00 5/00M 5/00M4 5/00M6 5/00M8 5/00M10 5/00N 5/04 5/05 5/06 5/067 5/067B 5/073C 5/08 5/10 5/12 5/12B 5/12C 5/222 5/225C 5/225C 5/225C 5/225C 5/225C 5/225C2 5/225C3 5/225C4 5/225L 5/225C4 5/225L 5/225L 5/225D 5/235B 5/235B 5/235E 5/235E 5/235C 5/232C 5/253 5/257 |
| | | | |

| Class | Subclass | Subclass | Notation |
|-------|--|----------|--|
| 348 | E5.051 E5.052 E5.053 E5.054 E5.055 E5.056 E5.057 E5.058 E5.059 E5.06 E5.061 E5.062 E5.063 E5.064 E5.065 E5.066 E5.067 E5.068 E5.069 E5.071 E5.072 E5.071 E5.072 E5.071 E5.072 E5.073 E5.074 E5.077 E5.078 E5.077 E5.078 E5.077 E5.078 E5.079 E5.088 E5.081 E5.082 E5.083 E5.084 E5.085 E5.086 E5.087 E5.088 E5.089 E5.099 E5.091 E5.092 E5.093 E5.094 E5.095 E5.096 E5.097 E5.098 E5.099 E5.099 E5.099 | HO4N | 5/262 5/262E 5/262M 5/262S 5/262T 5/265 5/268 5/272 5/275 5/278 5/28 5/14 5/14B 5/14B 5/14B 5/14W 5/14M2 5/14S 5/14V 5/16 5/16B 5/18 5/18B 5/20 5/202 5/205 5/208 5/217 5/217S 5/217S3 5/32S 5/33S 5/33S 5/33S 5/34C 5/44 5/50 5/50B 5/445 5/445C |
| | E5.101 E5.102 E5.103 | | 5/445D 5/445F 5/445R |

| Class | Subclass | Subclass | Notation |
|-----------|--|---------------|---|
| Class 348 | E5.104 E5.105 E5.106 E5.107 E5.108 E5.109 E5.11 E5.111 E5.111 E5.112 E5.113 E5.114 E5.115 E5.116 E5.117 E5.118 E5.119 E5.12 E5.121 E5.122 E5.123 E5.124 E5.125 E5.124 E5.125 E5.126 E5.127 E5.128 E5.129 E5.13 E5.131 E5.131 E5.132 E5.133 E5.134 E5.135 E5.136 E5.137 E5.138 E5.139 E5.138 E5.139 E5.144 E5.141 E5.142 E5.141 E5.142 E5.143 E5.144 E5.145 E7.001 E7.002 E7.003 E7.004 E7.005 E7.006 E7.007 E7.008 | Subclass H04N | Notation 5/445W 5/445M 5/44B 5/44F 5/44R 5/44P 5/44S 5/44W 5/45 5/44S 5/45 5/46 5/52 5/53 5/54 5/56 5/57 5/58 5/59 5/60 5/60N 5/60N2 5/60S 5/62 5/63 5/64 5/64S 5/645 5/64S 5/65 5/64S 5/74 5/74M 5/74M 5/74M 5/74M 5/74M 5/74M6 5/74P 5/74P5 5/74P7 7/00 7/00L 7/01 7/015 7/015B 7/015B2 7/015B2M 7/01A |
| | E7.009 | | 7/01B |

| Class | Subclass | Subclass | Notation |
|-----------|--|------------------|---|
| Class 348 | E7.01 E7.011 E7.012 E7.013 E7.014 E7.015 E7.016 E7.017 E7.018 E7.019 E7.02 E7.021 E7.022 E7.023 E7.024 E7.025 E7.026 E7.027 E7.028 E7.029 E7.03 E7.031 E7.032 E7.031 E7.032 E7.033 E7.031 E7.032 E7.033 E7.031 E7.032 E7.033 E7.034 E7.035 E7.036 E7.037 E7.038 E7.037 E7.038 E7.039 E7.044 E7.041 E7.042 E7.041 E7.042 E7.043 E7.044 E7.045 E7.046 E7.047 E7.048 E7.049 E7.055 E7.051 E7.052 E7.053 E7.055 E7.056 E7.057 E7.058 E7.059 E7.066 E7.061 E7.062 | Subclass HO4N | 7/01B2 7/01B4 7/01D4 7/01D4 7/01D2 7/01F 7/01H 7/025 7/025D 7/035 7/035C 7/035D 7/035E 7/08 7/081 7/085 7/085 7/085 7/085 7/088 7/088 7/088B 7/088B 7/088B 7/088B 7/088B 7/088B 7/088B 7/088B 7/088C 7/04 7/045 7/06B 7/06C 7/12 7/12C 7/12C2 7/12D 7/10H 7/10H 7/10H 7/10H 7/10H 7/10C2 7/16 7/167 7/167D 7/169 7/169B 7/169C 7/16E 7/16E2 7/16E2 7/16E2 7/16E2 7/16E2 |
| | | | |

| Class | Subclass | Subclass | Notation |
|-----------|--|---------------|---|
| Class 348 | Subclass E7.063 E7.064 E7.065 E7.066 E7.067 E7.068 E7.069 E7.07 E7.071 E7.072 E7.073 E7.074 E7.075 E7.076 E7.077 E7.078 E7.079 E7.08 E7.081 E7.082 E7.083 E7.084 E7.085 E7.086 E7.087 E7.088 E7.089 E7.090 E7.091 E7.092 E7.091 E7.092 E7.093 E7.094 E9.001 E9.001 E9.001 E9.005 E9.006 E9.007 E9.008 E9.009 E9.01 E9.011 E9.011 E9.012 E9.013 E9.014 E9.015 E9.016 E9.017 E9.018 E9.019 | Subclass H04N | Notation 7/16E3 7/16D 7/16F 7/171 7/171B 7/171C 7/173 7/173B 7/173B2 7/173B2 7/173C2 7/173C2 7/173C3 7/14 7/14A 7/14A2 7/14A2B 7/14A3 7/14A4 7/15 7/15M 7/18 7/18D 7/18D2 7/18D3 7/18B 7/00B 7/00B3 7/20 7/22 9/00 9/04 9/07 9/077 9/083 9/09 9/04 9/07 9/077 9/083 9/09 9/04 9/07 9/077 9/083 9/09 9/04 9/07 9/077 9/083 9/09 9/04 9/07 9/077 9/083 9/09 9/04 9/07 9/077 9/083 9/09 9/093 9/097 9/11 9/04B 9/10 9/12 9/14 9/16 9/27 9/18 9/20 9/22 9/24 9/26 |
| | E9.021 | | 9/28 |

| Class 348 | Subclass E9.022 E9.023 E9.024 E9.025 E9.026 E9.027 E9.028 E9.029 E9.03 E9.031 E9.032 E9.033 E9.034 E9.035 E9.036 E9.037 E9.038 E9.039 E9.04 E9.041 E9.042 E9.043 E9.044 E9.045 E9.046 E9.047 E9.048 E9.049 E9.049 E9.05 E9.051 E9.052 E9.053 E9.055 E9.056 E9.055 E9.056 E9.057 E11.001 E11.002 E11.003 E11.004 E11.005 E11.006 E11.006 | Subclass H04N | Notation 9/285 9/29 9/30 9/31 9/31L 9/31V 9/43 9/44 9/45 9/455 9/465 9/47 9/475 9/77 9/78 9/64B 9/64B 9/64C 9/64D 9/64E 9/64D 9/64E 9/64M 9/65 9/66 9/67 9/70 9/71 9/72 9/73 9/73B 9/68 9/69 9/74 9/75 9/76 11/00 11/00H 11/00H2 11/00H4 11/00H6 11/02 11/06 |
|--------------|---|------------------|--|
| | E11.002 E11.003 E11.004 E11.005 | | 11/00H 11/00H2 11/00H4 11/00H6 |
| | E11.006 E11.007 E11.008 E11.009 E11.01 E11.011 E11.012 E11.013 E11.014 E11.015 E11.016 E11.017 | | 11/02 11/06 11/08 11/10 11/12 11/14 11/16 11/16P 11/16B 11/16C 11/14B 11/14C |

| Class 348 | Subclass E11.018 E11.019 | Subclass H04N | Notation 11/18 11/18B |
|--------------|--------------------------------|------------------|-----------------------------|
| | E11.02 | | 11/18C |
| | E11.021 | | 11/20 |
| | E11.022 | | 11/22 |
| | E13.001 | | 13/00 |
| | E13.002 | | 13/00S |
| | E13.003 E13.004 | | 13/00S2 |
| | E13.004 E13.005 | | 13/00S2A 13/00S2A1 |
| | E13.005 | | 13/00S2A1 13/00S2A1B |
| | E13.007 | | 13/00S2A1D |
| | E13.008 | | 13/00S2A1M |
| | E13.009 | | 13/00S2A1A |
| | E13.01 | | 13/00S2A1P |
| | E13.011 | | 13/00S2A1T |
| | E13.012 | | 13/00S2A1S |
| | E13.013 E13.014 | | 13/00S2A1V 13/00S2A2 |
| | E13.014 E13.015 | | 13/00S2A2 13/00S2A3 |
| | E13.016 | | 13/00S2A3 13/00S2A7 |
| | E13.017 | | 13/00S2A8 |
| | E13.018 | | 13/00S2A9 |
| | E13.019 | | 13/00S2B |
| | E13.02 | | 13/00S2C |
| | E13.021 | | 13/00S2L |
| | E13.022 E13.023 | | 13/00S2M |
| | E13.025 E13.024 | | 13/00S2M1 13/00S2N |
| | E13.025 | | 13/00S2Y |
| | E13.026 | | 13/00S4 |
| | E13.027 | | 13/00S4A |
| | E13.028 | | 13/00S4A2 |
| | E13.029 | | 13/00S4A1 |
| | E13.03 | | 13/00S4A3 |
| | E13.031 | | 13/00S4A7 13/00S4A9 |
| | E13.032 E13.033 | | 13/00S4A9 13/00S4B |
| | E13.034 | | 13/00S4C |
| | E13.035 | | 13/00S4E |
| | E13.036 | | 13/00S4G |
| | E13.037 | | 13/00S4G1 |
| | E13.038 | | 13/00S4G3 |
| | E13.039 | | 13/00S4G5 |
| | E13.04 | | 13/00S4G7 13/00S4G9 |
| | E13.041 E13.042 | | 13/00S4G9 13/00S4H |
| | E13.042 E13.043 | | 13/00S4II 13/00S4L |
| | E13.044 | | 13/00S4M |
| | E13.045 | | 13/00S4T |
| | E13.046 | | 13/00S4T1 |
| | E13.047 | | 13/00S4T11 |
| | E13.048 | | 13/00S4T2 |
| | E13.049 | | 13/00S4T3 |
| | E13.05 | | 13/00S4T5 |
| | | | |

| Class | Subclass | Subclass | Notation |
|-------|----------|----------|------------|
| 348 | E13.051 | H04N | 13/00S4T7 |
| | E13.052 | | 13/00S4T9 |
| | E13.053 | | 13/00S4U |
| | E13.054 | | 13/00S4V |
| | E13.055 | | 13/00S4V1 |
| | E13.056 | | 13/00S4V3 |
| | E13.057 | | 13/00S4V5 |
| | E13.058 | | 13/00S4P |
| | E13.059 | | 13/00S4Y |
| | E13.06 | | 13/00S6 |
| | E13.061 | | 13/00S6B |
| | E13.062 | | 13/00S6C |
| | E13.063 | | 13/00S6M |
| | E13.064 | | 13/00S6P |
| | E13.065 | | 13/00S6P1 |
| | E13.066 | | 13/00S6P1V |
| | E13.067 | | 13/00S6P3 |
| | E13.068 | | 13/00S6P5 |
| | E13.069 | | 13/00S6P7 |
| | E13.07 | | 13/00S6S |
| | E13.071 | | 13/00S6T |
| | E13.072 | | 13/00S6U |
| | E13.073 | | 13/00S6Y |
| | E13.074 | | 13/02 |
| | E13.075 | | 13/04 |
| | E15.001 | | 15/00 |
| | E17.001 | | 17/00 |
| | E17.002 | | 17/00C |
| | E17.003 | | 17/00N |
| | E17.004 | | 17/02 |
| | E17.005 | | 17/04 |
| | E17.006 | | 17/04B |
| | | | |

CLASS 348 - TELEVISION

The E-subclasses in U.S. Class 348 provide for (1) the transmission of pictures by methods involving 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 and (2) their transient or permanent reproduction either locally or remotely, by methods involving 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 there from, simultaneously or in sequence, and (3) circuits specially designed for dealing with pictorial communication signals, e.g. television signals, as distinct from merely signals of a particular frequency range.

E-SUBCLASSES

E3.001 SCANNING DETAILS OF TELEVISION SYSTEMS (EPO)

This main group provides for methods and devices for converting sequences of image elements into electrical signals. This subclass is substantially the same in scope as ECLA classification H04N 3/00.

E3.002 Scanning of motion picture films, e.g., for telecine (EPO):

This subclass is indented under subclass E3.001. This subclass is substantially the same in scope as ECLA classification H04N 3/36.

E3.003 With continuously moving film (EPO):

This subclass is indented under subclass E3.002. This subclass is substantially the same in scope as ECLA classification H04N 3/38.

E3.004 With intermittently moving film (EPO):

This subclass is indented under subclass E3.002. This subclass is substantially the same in scope as ECLA classification H04N 3/40.

E3.005 With film moving only during the field blanking interval (EPO):

This subclass is indented under subclass E3.004. This subclass is substantially the same in scope as ECLA classification H04N 3/40B.

E3.006 By optical-mechanical means only (EPO):

This subclass is indented under subclass E3.001. This subclass is substantially the same in scope as ECLA classification H04N 3/02.

E3.007 Having a moving aperture (EPO):

This subclass is indented under subclass E3.006. This subclass is substantially the same in scope as ECLA classification H04N 3/04.

(1) Note. This subclass covers moving apertures covered by lenses.

E3.008 Having a moving lens or other refractor (EPO):

This subclass is indented under subclass E3.006. This subclass is substantially the same in scope as ECLA classification H04N 3/06.

E3.009 Having a moving reflector (EPO):

This subclass is indented under subclass E3.006. This subclass is substantially the same in scope as ECLA classification H04N 3/08.

E3.01 For electromagnetic radiation in the invisible region, e.g., infra-red (EPO):

This subclass is indented under subclass E3.009. This subclass is substantially the same in scope as ECLA classification H04N 3/09.

E3.011 By means not exclusively optical-mechanical (EPO):

This subclass is indented under subclass E3.001. This subclass is substantially the same in scope as ECLA classification H04N 3/10.

E3.012 By switched stationary formation of lamps, photocells or light relays (EPO):

This subclass is indented under subclass E3.011. This subclass is substantially the same in scope as ECLA classification H04N 3/12.

E3.013 Using cathode rays, e.g., multivision (EPO):

This subclass is indented under subclass E3.012. This subclass is substantially the same in scope as ECLA classification H04N 3/12C.

E3.014 Using gas discharges, e.g., plasma (EPO):

This subclass is indented under subclass E3.012. This subclass is substantially the same in scope as ECLA classification H04N 3/12G.

E3.015 Using liquid crystals (EPO):

This subclass is indented under subclass E3.012. This subclass is substantially the same in scope as ECLA classification H04N 3/12L.

E3.016 By means of electrically scanned solid-state devices (EPO):

This subclass is indented under subclass E3.011. This subclass is substantially the same in scope as ECLA classification H04N 3/14.

E3.017 For picture signal generation (EPO):

This subclass is indented under subclass E3.016. This subclass is substantially the same in scope as ECLA classification H04N 3/15.

E3.018 Control of the image-sensor operation, e.g., image processing within the image-sensor (EPO):

This subclass is indented under subclass E3.017. This subclass is substantially the same in scope as ECLA classification H04N 3/15E.

E3.019 For variable integration time (EPO):

This subclass is indented under subclass E3.018. This subclass is substantially the same in scope as ECLA classification H04N 3/15E2.

E3.02 For selective scanning, e.g., windowing, zooming (EPO):

This subclass is indented under subclass E3.018. This subclass is substantially the same in scope as ECLA classification H04N 3/15E4.

E3.021 For disturbance correction or prevention within the image-sensor, e.g., biasing, blooming, smearing (EPO):

This subclass is indented under subclass E3.018. This subclass is substantially the same in scope as ECLA classification H04N 3/15E6.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E5.08, for correction circuits.

E3.022 Picture signal readout register, e.g., shift registers, interline shift registers (EPO):

This subclass is indented under subclass E3.017. This subclass is substantially the same in scope as ECLA classification H04N 3/15F.

E3.023 With charge transfer within the image-sensor, e.g., time delay and integration (EPO):

This subclass is indented under subclass E3.017. This subclass is substantially the same in scope as ECLA classification H04N 3/15D.

E3.024 Using frame-interline transfer (EPO):

This subclass is indented under subclass E3.023. This subclass is substantially the same in scope as ECLA classification H04N 3/15D2.

E3.025 Using interline transfer (EPO):

This subclass is indented under subclass E3.023. This subclass is substantially the same in scope as ECLA classification H04N 3/15D4.

E3.026 Using frame transfer (EPO):

This subclass is indented under subclass E3.023. This subclass is substantially the same in scope as ECLA classification H04N 3/15D6.

E3.027 Using linear image-sensor (EPO):

This subclass is indented under subclass E3.017. This subclass is substantially the same in scope as ECLA classification H04N 3/15G.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E3.023, for time delay and integration.

E3.028 With addressing of the image-sensor elements (EPO):

This subclass is indented under subclass E3.017. This subclass is substantially the same in scope as ECLA classification H04N 3/15C.

E3.029 For MOS image-sensors, e.g., MOS-CCD (EPO):

This subclass is indented under subclass E3.028. This subclass is substantially the same in scope as ECLA classification H04N 3/15C4.

E3.03 Using charge injection within the image-sensor (EPO):

This subclass is indented under subclass E3.028. This subclass is substantially the same in scope as ECLA classification H04N 3/15C6.

E3.031 The image being sequentially picked-up by one device at different imaging positions, e.g., by shifting the image-sensor (EPO):

This subclass is indented under subclass E3.017. This subclass is substantially the same in scope as ECLA classification H04N 3/15H.

E3.032 The image being simultaneously picked-up by more than one device, e.g., the scene being partitioned into sub-images (EPO):

This subclass is indented under subclass E3.017. This subclass is substantially the same in scope as ECLA classification H04N 3/15J.

E3.033 By deflecting electron beam in cathode-ray tube (EPO):

This subclass is indented under subclass E3.011. This subclass is substantially the same in scope as ECLA classification H04N 3/16.

(1) Note. This subclass provides, for example, for scanning corrections.

E3.034 Generation of supply voltages, in combination with electron beam deflecting (EPO):

This subclass is indented under subclass E3.033. This subclass is substantially the same in scope as ECLA classification H04N 3/18.

E3.035 Maintaining dc voltage constant (EPO):

This subclass is indented under subclass E3.033. This subclass is substantially the same in scope as ECLA classification H04N 3/185.

E3.036 Using regulation in parallel (EPO):

This subclass is indented under subclass E3.035. This subclass is substantially the same in scope as ECLA classification H04N 3/185P.

E3.037 Using regulation in series (EPO):

This subclass is indented under subclass E3.035. This subclass is substantially the same in scope as ECLA classification H04N 3/185S.

E3.038 Arrangements or assemblies in supply circuits for the purpose of withstanding high voltages (EPO):

This subclass is indented under subclass E3.035. This subclass is substantially the same in scope as ECLA classification H04N 3/19.

E3.039 Prevention of damage to cathode-ray tubes in the event of failure of scanning (EPO):

This subclass is indented under subclass E3.033. This subclass is substantially the same in scope as ECLA classification H04N 3/2.

E3.04 Circuits for controlling dimension, shape or centering of picture on screen (EPO):

This subclass is indented under subclass E3.033. This subclass is substantially the same in scope as ECLA classification H04N 3/22.

E3.041 Controlling dimensions (EPO):

This subclass is indented under subclass E3.04. This subclass is substantially the same in scope as ECLA classification H04N 3/223.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E3.035 for controlling dimensions by maintaining the cathode-ray tube high voltage constant.

E3.042 Centering (EPO):

This subclass is indented under subclass E3.04. This subclass is substantially the same in scope as ECLA classification H04N 3/227.

E3.043 Distortion correction, e.g. for pincushion distortion correction, S-correction (EPO):

This subclass is indented under subclass E3.04. This subclass is substantially the same in scope as ECLA classification H04N 3/23.

E3.044 Using active elements (EPO):

This subclass is indented under subclass E3.043. This subclass is substantially the same in scope as ECLA classification H04N 3/233.

E3.045 With calculating means (EPO):

This subclass is indented under subclass E3.044. This subclass is substantially the same in scope as ECLA classification H04N 3/233C.

E3.046 Using passive elements, e.g., diodes (EPO):

This subclass is indented under subclass E3.043. This subclass is substantially the same in scope as ECLA classification H04N 3/237.

E3.047 Blanking circuits (EPO):

This subclass is indented under subclass E3.033. This subclass is substantially the same in scope as ECLA classification H04N 3/24.

E3.048 Modifications of scanning arrangements to improve focusing (EPO):

This subclass is indented under subclass E3.033. This subclass is substantially the same in scope as ECLA classification H04N 3/26.

E3.049 Circuits special to multi-standard receivers (EPO):

This subclass is indented under subclass E3.033. This subclass is substantially the same in scope as ECLA classification H04N 3/27.

SEE OR SEARCH THIS CLASS. SUBCLASS:

E5.114, for circuitry of multi-standard receivers in general.

E3.05 Producing multiple scanning, i.e., using more than one spot at the same time (EPO):

This subclass is indented under subclass E3.011. This subclass is substantially the same in scope as ECLA classification H04N 3/28.

E3.051 Otherwise than with constant velocity or otherwise than in pattern formed by unidirectional, straight, substantially horizontal or vertical lines (EPO):

This subclass is indented under subclass E3.011. This subclass is substantially the same in scope as ECLA classification H04N 3/30.

E3.052 Velocity varied in dependence upon picture information (EPO):

This subclass is indented under subclass E3.051. This subclass is substantially the same in scope as ECLA classification H04N 3/32.

E3.053 Elemental scanning area oscillated rapidly in direction transverse to main scanning direction (EPO):

This subclass is indented under subclass E3.051. This subclass is substantially the same in scope as ECLA classification H04N 3/34

E5.001 DETAILS OF TELEVISION SYSTEMS (EPO):

This main group provides for details of television methods and devices for transmitting black-and-white picture signals. This subclass is substantially the same in scope as ECLA classification H04N 5/00.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E3.001, for scanning details or combination thereof with generation of supply voltages.

E9.001, for details of color television systems.

E5.002 Multimedia set-top circuitry for digital video services (EPO):

This subclass is indented under subclass E5.001. This subclass is substantially the same in scope as ECLA classification H04N 5/00M.

E5.003 Downstream channel decoding therefor (EPO):

This subclass is indented under subclass E5.002. This subclass is substantially the same in scope as ECLA classification H04N 5/00M2.

E5.004 Involving conditional access (EPO):

This subclass is indented under subclass E5.002. This subclass is substantially the same in scope as ECLA classification H04N 5/00M4.

E5.005 Transport demultiplexing therefor (EPO):

This subclass is indented under subclass E5.002. This subclass is substantially the same in scope as ECLA classification H04N 5/00M6.

E5.006 Operative control therefor (EPO):

This subclass is indented under subclass E5.002. This subclass is substantially the same in scope as ECLA classification H04N 5/00M8.

E5.007 Involving digital storage medium interfacing (EPO):

This subclass is indented under subclass E5.002. This subclass is substantially the same in scope as ECLA classification H04N 5/00M10.

E5.008 Multimedia server circuitry for digital video services (EPO):

This subclass is indented under subclass E5.001. This subclass is substantially the same in scope as ECLA classification H04N 5/00N.

E5.009 Synchronizing (EPO):

This subclass is indented under subclass E5.001. This subclass is substantially the same in scope as ECLA classification H04N 5/04.

E5.01 Synchronizing circuits with arrangements for extending range of synchronization, e.g., by using switching between several time constants (EPO):

This subclass is indented under subclass E5.009. This subclass is substantially the same in scope as ECLA classification H04N 5/05.

E5.011 Generation of synchronizing signals (EPO):

This subclass is indented under subclass E5.009. This subclass is substantially the same in scope as ECLA classification H04N 5/06.

E5.012 Arrangements or circuits at the transmitter end (EPO):

This subclass is indented under subclass E5.011. This subclass is substantially the same in scope as ECLA classification H04N 5/067.

E5.013 For mixing the synchronizing signals with the picture signal or mutually (EPO):

This subclass is indented under subclass E5.012. This subclass is substantially the same in scope as ECLA classification H04N 5/067B.

E5.014 For mutually locking plural sources of synchronizing signals, e.g., studios or relay stations (EPO):

This subclass is indented under subclass E5.012. This subclass is substantially the same in scope as ECLA classification H04N 5/073.

E5.015 For distributing synchronization pulses to different TV cameras (EPO):

This subclass is indented under subclass E5.014. This subclass is substantially the same in scope as ECLA classification H04N 5/073B.

E5.016 Using digital storage buffer techniques (EPO):

This subclass is indented under subclass E5.014. This subclass is substantially the same in scope as ECLA classification H04N 5/073C.

E5.017 Separation of synchronizing signals from picture signals (EPO):

This subclass is indented under subclass E5.009. This subclass is substantially the same in scope as ECLA classification H04N 5/08.

E5.018 Separation of line synchronizing signal from frame synchronizing signal (EPO):

This subclass is indented under subclass E5.017. This subclass is substantially the same in scope as ECLA classification H04N 5/10.

(1) Note. This subclass includes the separation of frame synchronizing signals from line synchronizing signals.

E5.019 Devices in which the synchronizing signals are only operative if a phase difference occurs between synchronizing and synchronized scanning devices, e.g., flywheel synchronizing (EPO):

This subclass is indented under subclass E5.009. This subclass is substantially the same in scope as ECLA classification H04N 5/12.

E5.02 Whereby the synchronization signal directly commands a frequency generator (EPO):

This subclass is indented under subclass E5.019. This subclass is substantially the same in scope as ECLA classification H04N 5/12B.

E5.021 Whereby the synchronization signal indirectly commands a frequency generator (EPO):

This subclass is indented under subclass E5.019. This subclass is substantially the same in scope as ECLA classification H04N 5/12C.

E5.022 Studio circuitry; Studio devices; Studio equipment (EPO):

This subclass is indented under subclass E5.001. This subclass is substantially the same in scope as ECLA classification H04N 5/222.

E5.023 Prompting (EPO):

This subclass is indented under subclass E5.022. This subclass is substantially the same in scope as ECLA classification H04N 5/222P.

E5.024 Television cameras (EPO):

This subclass is indented under subclass E5.022. This subclass is substantially the same in scope as ECLA classification H04N 5/225.

E5.025 Constructional details (EPO):

This subclass is indented under subclass E5.024. This subclass is substantially the same in scope as ECLA classification H04N 5/225C.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E5.048, for arrangements of cameras.

E5.026 Housings (EPO):

This subclass is indented under subclass E5.025. This subclass is substantially the same in scope as ECLA classification H04N 5/225C2.

E5.027 Mounting of pick-up device, deviation or focusing coils (EPO):

This subclass is indented under subclass E5.025. This subclass is substantially the same in scope as ECLA classification H04N 5/225C3.

E5.028 Mounting of optical parts, e.g., lenses, shutters, filters (EPO):

This subclass is indented under subclass E5.025. This subclass is substantially the same in scope as ECLA classification H04N 5/225C4.

E5.029 Provided with illuminating means (EPO):

This subclass is indented under subclass E5.024. This subclass is substantially the same in scope as ECLA classification H04N 5/225L.

E5.03 Means for changing the camera's field of view without moving the camera body, e.g., nutating or panning optics or image-sensors (EPO):

T his subclass is indented under subclass E5.024. This subclass is substantially the same in scope as ECLA classification H04N 5/225V.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E3.031, for picture signal generation using shifting image-sensors.

E5.031 Circuit details for pick-up tubes (EPO):

This subclass is indented under subclass E5.024. This subclass is substantially the same in scope as ECLA classification H04N 5/228.

E5.032 Beam current control (EPO):

This subclass is indented under subclass E5.031. This subclass is substantially the same in scope as ECLA classification H04N 5/228B.

E5.033 During retrace periods, e.g., circuits for ACT tubes, leg suppression (EPO):

This subclass is indented under subclass E5.032. This subclass is substantially the same in scope as ECLA classification H04N 5/228B2.

E5.034 Circuitry for compensating for variation in the brightness of the object (EPO):

This subclass is indented under subclass E5.024. This subclass is substantially the same in scope as ECLA classification H04N 5/235.

E5.035 Circuitry for evaluating the brightness variations of the object (EPO):

This subclass is indented under subclass E5.034. This subclass is substantially the same in scope as ECLA classification H04N 5/235B.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E3.018, for such circuits within the image sensor.

E5.036 Combination of two or more compensation controls (EPO):

This subclass is indented under subclass E5.034. This subclass is substantially the same in scope as ECLA classification H04N 5/235C.

E5.037 By influencing the exposure time, e.g., shutter (EPO):

This subclass is indented under subclass E5.034. This subclass is substantially the same in scope as ECLA classification H04N 5/235E.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E3.019 for such subject matter within the image sensor.

E5.038 By influencing the scene brightness using illuminating means (EPO):

This subclass is indented under subclass E5.034. This subclass is substantially the same in scope as ECLA classification H04N 5/235L.

E5.039 By influencing at least one of the pick-up tube voltages (EPO):

This subclass is indented under subclass E5.034. This subclass is substantially the same in scope as ECLA classification H04N 5/235T.

E5.04 By influencing the optical part of the camera (EPO):

This subclass is indented under subclass E5.034. This subclass is substantially the same in scope as ECLA classification H04N 5/238.

(1) Note. This subclass covers, for example, diaphragms, intensifiers, fiber bundles.

E5.041 By influencing the picture signal (EPO):

This subclass is indented under subclass E5.034. This subclass is substantially the same in scope as ECLA classification H04N 5/243.

(1) Note. This subclass covers, for example, signal amplitude gain control.

E5.042 Devices for controlling television cameras, e.g., remote control (EPO):

This subclass is indented under subclass E5.024. This subclass is substantially the same in scope as ECLA classification H04N 5/232.

E5.043 Remote control signaling for television cameras or for parts of television camera, e.g., between main body and part of camera (EPO):

This subclass is indented under subclass E5.042. This subclass is substantially the same in scope as ECLA classification H04N 5/232C.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E5.015, for distributing sync-signals to television cameras.

E5.044 For interchangeable parts of television camera (EPO):

This subclass is indented under subclass E5.043. This subclass is substantially the same in scope as ECLA classification H04N 5/232C2.

E5.045 Focusing (EPO):

This subclass is indented under subclass E5.042. This subclass is substantially the same in scope as ECLA classification H04N 5/232F.

E5.046 For stable pick-up of the scene in spite of camera body vibration (EPO):

This subclass is indented under subclass E5.042. This subclass is substantially the same in scope as ECLA classification H04N 5/232S.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E3.02, for image-sensor selective scanning, per se.

E5.047 View-finder (EPO):

This subclass is indented under subclass E5.042. This subclass is substantially the same in scope as ECLA classification H04N 5/232V.

E5.048 Arrangements of television cameras (EPO):

This subclass is indented under subclass E5.024. This subclass is substantially the same in scope as ECLA classification H04N 5/247.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E5.025, for constructional details of cameras.

E5.049 Picture signal generating by scanning motion picture films or slide opaques, e.g., for telecine (EPO):

This subclass is indented under subclass E5.022. This subclass is substantially the same in scope as ECLA classification H04N 5/253.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E3.002, for scanning details of picture signal generators of this subclass type.

E7.015, for standard conversion for such picture signal generating of this subclass type.

E5.05 Picture signal generators using flying-spot scanners (EPO):

This subclass is indented under subclass E5.022. This subclass is substantially the same in scope as ECLA classification H04N 5/257.

E5.051 Studio circuits, e.g., for mixing, switching-over, change of character of image, other special effects (EPO):

This subclass is indented under subclass E5.022. This subclass is substantially the same in scope as ECLA classification H04N 5/262P.

E5.052 Signal amplitude transition in the zone between image portions, e.g., soft edges (EPO):

This subclass is indented under subclass E5.051. This subclass is substantially the same in scope as ECLA classification H04N 5/262E.

E5.053 For obtaining an image which is composed of whole input images, e.g., splitscreen (EPO):

This subclass is indented under subclass E5.051. This subclass is substantially the same in scope as ECLA classification H04N 5/262M.

E5.054 For obtaining an image which is composed of images from a temporal image sequence, e.g., for a stroboscopic effect (EPO):

This subclass is indented under subclass E5.051. This subclass is substantially the same in scope as ECLA classification H04N 5/262S.

SEE OR SEARCH THIS CLASS, SUBCLASS;

E7.090, for subject matter having sequences generated by event-triggered capturing.

E5.055 Alteration of picture size, shape, position or orientation, e.g., zooming, rotation, rolling, perspective, translation (EPO):

This subclass is indented under subclass E5.051. This subclass is substantially the same in scope as ECLA classification H04N 5/262T.

E5.056 Mixing (EPO):

This subclass is indented under subclass E5.051. This subclass is substantially the same in scope as ECLA classification H04N 5/265.

E5.057 Signal distribution or switching (EPO):

This subclass is indented under subclass E5.051. This subclass is substantially the same in scope as ECLA classification H04N 5/268.

E5.058 Means for inserting a foreground image in a background image, i.e., inlay, outlay (EPO):

This subclass is indented under subclass E5.051. This subclass is substantially the same in scope as ECLA classification H04N 5/272.

E5.059 Generation of keying signals (EPO):

This subclass is indented under subclass E5.058. This subclass is substantially the same in scope as ECLA classification H04N 5/275.

E5.06 Subtitling (EPO):

This subclass is indented under subclass E5.051. This subclass is substantially the same in scope as ECLA classification H04N 5/278.

E5.061 Mobile studios (EPO):

This subclass is indented under subclass E5.022. This subclass is substantially the same in scope as ECLA classification H04N 5/28.

E5.062 Picture signal circuitry for video frequency region (EPO):

This subclass is indented under subclass E5.001. This subclass is substantially the same in scope as ECLA classification H04N 5/14.

E5.063 Beam current control means (EPO):

This subclass is indented under subclass E5.062. This subclass is substantially the same in scope as ECLA classification H04N 5/14B.

E5.064 Edging; Contouring (EPO):

This subclass is indented under subclass E5.062. This subclass is substantially the same in scope as ECLA classification H04N 5/14E.

E5.065 Movement detection (EPO):

This subclass is indented under subclass E5.062. This subclass is substantially the same in scope as ECLA classification H04N 5/14M.

E5.066 Movement estimation (EPO):

This subclass is indented under subclass E5.065 This subclass is substantially the same in scope as ECLA classification H04N 5/14M2

E5.067 Scene change detection (EPO):

This subclass is indented under subclass E5.062. This subclass is substantially the same in scope as ECLA classification H04N 5/14S.

E5.068 Video amplifiers (EPO):

This subclass is indented under subclass E5.062. This subclass is substantially the same in scope as ECLA classification H04N 5/14V.

E5.069 Circuitry for reinsertion of dc and slowly varying components of signal; Circuitry for preservation of black or white level (EPO):

This subclass is indented under subclass E5.062. This subclass is substantially the same in scope as ECLA classification H04N 5/16.

E5.07 To maintain the black level constant (EPO):

This subclass is indented under subclass E5.069. This subclass is substantially the same in scope as ECLA classification H04N 5/16B.

E5.071 By means of "clamp" circuit operated by switching circuit (EPO):

This subclass is indented under subclass E5.069. This subclass is substantially the same in scope as ECLA classification H04N 5/18.

E5.072 For the black level (EPO):

This subclass is indented under subclass E5.071. This subclass is substantially the same in scope as ECLA classification H04N 5/18B.

E5.073 Circuitry for controlling amplitude response (EPO):

This subclass is indented under subclass E5.062. This subclass is substantially the same in scope as ECLA classification H04N 5/20.

E5.074 Gamma control (EPO):

This subclass is indented under subclass E5.073. This subclass is substantially the same in scope as ECLA classification H04N 5/202.

E5.075 For correcting amplitude versus frequency characteristic (EPO):

This subclass is indented under subclass E5.073. This subclass is substantially the same in scope as ECLA classification H04N 5/205.

E5.076 For compensating for attenuation of high frequency components, e.g., crispening, aperture distortion correction (EPO):

This subclass is indented under subclass E5.075. This subclass is substantially the same in scope as ECLA classification H04N 5/208.

E5.077 Circuitry for suppressing or minimizing disturbance, e.g., moiré, halo (EPO):

This subclass is indented under subclass E5.062. This subclass is substantially the same in scope as ECLA classification H04N 5/21.

(1) Note. Subject matter of this subclass type may be combined with automatic gain control.

E5.078 In picture signal generation (EPO):

This subclass is indented under subclass E5.077. This subclass is substantially the same in scope as ECLA classification H04N 5/217.

E5.079 In solid-state picture signal generation (EPO):

This subclass is indented under subclass E5.078. This subclass is substantially the same in scope as ECLA classification H04N 5/217S.

E5.08 Suppression of excedentary charges, e.g., blooming, smearing (EPO):

This subclass is indented under subclass E5.079. This subclass is substantially the same in scope as ECLA classification H04N 5/217S2.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E3.019 and E3.021, for subject matter of this subclass type within the image sensor.

E5.081 Correction or equalization of amplitude response, e.g., dark current, blemishes, non-uniformity (EPO):

This subclass is indented under subclass E5.079. This subclass is substantially the same in scope as ECLA classification H04N 5/217S3.

E5.082 By initial calibration, e.g., with memory means (EPO):

This subclass is indented under subclass E5.081. This subclass is substantially the same in scope as ECLA classification H04N 5/217S3B.

E5.083 Circuitry for suppressing or minimizing impulsive noise (EPO):

This subclass is indented under subclass E5.077. This subclass is substantially the same in scope as ECLA classification H04N 5/213.

E5.084 Ghost signal cancellation (EPO):

This subclass is indented under subclass E5.077. This subclass is substantially the same in scope as ECLA classification H04N 5/21A.

E5.085 Transforming light or analogous information into electric information (EPO):

This subclass is indented under subclass E5.001. This subclass is substantially the same in scope as ECLA classification H04N 5/30.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E3.001, for scanning details.

E5.086 Transforming X-rays (EPO):

This subclass is indented under subclass E5.085. This subclass is substantially the same in scope as ECLA classification H04N 5/32.

E5.087 With video transmission of fluoroscopic images (EPO):

This subclass is indented under subclass E5.086. This subclass is substantially the same in scope as ECLA classification H04N 5/321.

E5.088 Image enhancement, e.g., by subtraction techniques using polyenergetic X-rays (EPO):

This subclass is indented under subclass E5.087. This subclass is substantially the same in scope as ECLA classification H04N 5/325.

E5.089 Using subtraction imaging techniques (EPO):

This subclass is indented under subclass E5.086. This subclass is substantially the same in scope as ECLA classification H04N 5/32S.

E5.09 Transforming infra-red radiation (EPO):

This subclass is indented under subclass E5.085. This subclass is substantially the same in scope as ECLA classification H04N 5/33.

E5.091 Using electrically scanned solid-state devices (EPO):

This subclass is indented under subclass E5.085. This subclass is substantially the same in scope as ECLA classification H04N 5/335.

E5.092 With digital output of the sensor cell, e.g., dynamic RAM image sensors (EPO):

This subclass is indented under subclass E5.091. This subclass is substantially the same in scope as ECLA classification H04N 5/335B.

E5.093 Transmitter circuitry (EPO):

This subclass is indented under subclass E5.001. This subclass is substantially the same in scope as ECLA classification H04N 5/38.

E5.094 Modulation circuits (EPO):

This subclass is indented under subclass E5.093. This subclass is substantially the same in scope as ECLA classification H04N 5/40.

E5.095 For transmitting at will black-and-white or color signals (EPO):

This subclass is indented under subclass E5.093. This subclass is substantially the same in scope as ECLA classification H04N 5/42.

E5.096 Receiver circuitry (EPO):

This subclass is indented under subclass E5.001. This subclass is substantially the same in scope as ECLA classification H04N 5/44.

E5.097 Tuning indicators; Automatic tuning control (EPO):

This subclass is indented under subclass E5.096. This subclass is substantially the same in scope as ECLA classification H04N 5/50.

E5.098 Invisible or silent tuning (EPO):

This subclass is indented under subclass E5.097. This subclass is substantially the same in scope as ECLA classification H04N 5/50B.

E5.099 For displaying additional information (EPO):

This subclass is indented under subclass E5.096. This subclass is substantially the same in scope as ECLA classification H04N 5/445.

E5.1 Circuit details of the additional information generator, e.g., details of the character or graphics signal generator, overlay mixing circuits (EPO):

This subclass is indented under subclass E5.099. This subclass is substantially the same in scope as ECLA classification H04N 5/445C.

E5.101 Multiplexed with a digital video signal (EPO):

This subclass is indented under subclass E5.099. This subclass is substantially the same in scope as ECLA classification H04N 5/445D.

E5.102 For displaying or controlling a single function of one single apparatus, e.g., TV receiver or VCR (EPO):

This subclass is indented under subclass E5.099. This subclass is substantially the same in scope as ECLA classification H04N 5/445F.

E5.103 The additional information being controlled by a remote control apparatus (EPO):

This subclass is indented under subclass E5.099. This subclass is substantially the same in scope as ECLA classification H04N 5/445R.

E5.104 The additional information being displayed in a separate window, e.g., by using splitscreen display (EPO):

This subclass is indented under subclass E5.099. This subclass is substantially the same in scope as ECLA classification H04N 5/445W.

E5.105 Menu-type displays (EPO):

This subclass is indented under subclass E5.099. This subclass is substantially the same in scope as ECLA classification H04N 5/445M.

E5.106 I.F. amplifier-circuits as far as concerned for B&W-TV (EPO):

This subclass is indented under subclass E5.096. This subclass is substantially the same in scope as ECLA classification H04N 5/44B.

E5.107 For frame-grabbing (EPO):

This subclass is indented under subclass E5.096. This subclass is substantially the same in scope as ECLA classification H04N 5/44F.

E5.108 For the reception of a digital modulated video signal (EPO):

This subclass is indented under subclass E5.096. This subclass is substantially the same in scope as ECLA classification H04N 5/44N.

E5.109 For progressive scanning (EPO):

This subclass is indented under subclass E5.096. This subclass is substantially the same in scope as ECLA classification H04N 5/44P.

E5.11 For flicker reduction (EPO):

This subclass is indented under subclass E5.096. This subclass is substantially the same in scope as ECLA classification H04N 5/44S.

E5.111 For displaying different aspect ratios (EPO):

This subclass is indented under subclass E5.096. This subclass is substantially the same in scope as ECLA classification H04N 5/44W.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E3.033, for displaying different aspect rations by electron beam deflection.

E5.112 Picture in picture (EPO):

This subclass is indented under subclass E5.111. This subclass is substantially the same in scope as ECLA classification H04N 5/45.

E5.113 Demodulation-circuits (EPO):

This subclass is indented under subclass E5.096. This subclass is substantially the same in scope as ECLA classification H04N 5/455.

E5.114 For receiving on more than one standard at will (EPO):

This subclass is indented under subclass E5.096. This subclass is substantially the same in scope as ECLA classification H04N 5/46.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E3.049, for deflecting circuits of multi-standard receivers.

E5.115 Automatic gain control (EPO):

This subclass is indented under subclass E5.096. This subclass is substantially the same in scope as ECLA classification H04N 5/52.

E5.116 Keyed automatic gain control (EPO):

This subclass is indented under subclass E5.115. This subclass is substantially the same in scope as ECLA classification $H04N\ 5/53$.

E5.117 For positively-modulated picture signals (EPO):

This subclass is indented under subclass E5.115. This subclass is substantially the same in scope as ECLA classification H04N 5/54.

E5.118 For negatively-modulated picture signals (EPO):

This subclass is indented under subclass E5.115. This subclass is substantially the same in scope as ECLA classification H04N 5/56.

E5.119 Control of contrast or brightness (EPO):

This subclass is indented under subclass E5.096. This subclass is substantially the same in scope as ECLA classification H04N 5/57.

E5.12 In dependence upon ambient light (EPO):

This subclass is indented under subclass E5.119. This subclass is substantially the same in scope as ECLA classification H04N 5/58.

E5.121 In dependence upon beam current of cathode ray tube (EPO):

This subclass is indented under subclass E5.119. This subclass is substantially the same in scope as ECLA classification H04N 5/59.

E5.122 For the sound signals (EPO):

This subclass is indented under subclass E5.096. This subclass is substantially the same in scope as ECLA classification H04N 5/60.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E5.098, for silent tuning, i.e., muting.

E5.123 For digital sound signals (EPO):

This subclass is indented under subclass E5.122. This subclass is substantially the same in scope as ECLA classification H04N 5/60N.

E5.124 According to the NICAM system (EPO):

This subclass is indented under subclass E5.123. This subclass is substantially the same in scope as ECLA classification H04N 5/60N2.

E5.125 For more than one sound signal, e.g., stereo, multilanguages (EPO):

This subclass is indented under subclass E5.122. This subclass is substantially the same in scope as ECLA classification H04N 5/60S.

E5.126 Intercarrier circuits, i.e., heterodyning sound and vision carriers (EPO):

This subclass is indented under subclass E5.122. This subclass is substantially the same in scope as ECLA classification H04N 5/62.

E5.127 Generation or supply of power specially adapted for television receivers (EPO):

This subclass is indented under subclass E5.001. This subclass is substantially the same in scope as ECLA classification H04N 5/63.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E3.034, for generation of supply voltages in combination with electron beam deflecting.

E5.128 Constructional details of receivers, e.g., cabinets, dust covers (EPO):

This subclass is indented under subclass E5.001. This subclass is substantially the same in scope as ECLA classification H04N 5/64.

E5.129 Mounting of picture tube on chassis or in housing (EPO):

This subclass is indented under subclass E5.128. This subclass is substantially the same in scope as ECLA classification H04N 5/645.

E5.13 Disposition of sound reproducers (EPO):

This subclass is indented under subclass E5.128. This subclass is substantially the same in scope as ECLA classification H04N 5/64S.

E5.131 Holding-devices for protective discs or for picture masks (EPO):

This subclass is indented under subclass E5.128. This subclass is substantially the same in scope as ECLA classification H04N 5/65.

E5.132 Construction or mounting of chassis, e.g., for varying the elevation of the tube (EPO):

This subclass is indented under subclass E5.128. This subclass is substantially the same in scope as ECLA classification H04N 5/655.

E5.133 Transforming electric information into light information (EPO):

This subclass is indented under subclass E5.001. This subclass is substantially the same in scope as ECLA classification H04N 5/66.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E3.001 for details of scanning.

E5.134 Circuit details for cathode-ray display tubes (EPO):

This subclass is indented under subclass E5.133. This subclass is substantially the same in scope as ECLA classification H04N 5/68.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E3.033, for deviation circuits.

E5.135 Circuit details for electroluminescent devices (EPO):

This subclass is indented under subclass E5.133. This subclass is substantially the same in scope as ECLA classification H04N 5/70.

E5.136 Modifying the appearance of television pictures by optical filters or diffusing screens (EPO):

This subclass is indented under subclass E5.001. This subclass is substantially the same in scope as ECLA classification H04N 5/72.

E5.137 Projection arrangements for image reproduction, e.g., using eidophor (EPO):

This subclass is indented under subclass E5.001. This subclass is substantially the same in scope as ECLA classification H04N 5/74.

E5.138 Direct viewing projectors, e.g., an image displayed on a video CRT or LCD display being projected on a screen (EPO):

This subclass is indented under subclass E5.137. This subclass is substantially the same in scope as ECLA classification H04N 5/74D.

E5.139 Involving the use of a spatial light modulator, e.g., a light valve, controlled by a video signal (EPO):

This subclass is indented under subclass E5.137. This subclass is substantially the same in scope as ECLA classification H04N 5/74M.

E5.14 The modulator being a dielectric deformable layer controlled by an electron beam, e.g., eidophor projector (EPO):

This subclass is indented under subclass E5.139. This subclass is substantially the same in scope as ECLA classification H04N 5/74M2.

E5.141 The modulator being an array of liquid crystal cells (EPO):

This subclass is indented under subclass E5.139. This subclass is substantially the same in scope as ECLA classification H04N 5/74M4.

E5.142 The modulator being an array of deformable mirrors, e.g., digital micromirror device (DMD) (EPO):

This subclass is indented under subclass E5.139. This subclass is substantially the same in scope as ECLA classification H04N 5/74M6.

E5.143 Constructional details of television projection apparatus (EPO):

This subclass is indented under subclass E5.137. This subclass is substantially the same in scope as ECLA classification H04N 5/74P.

E5.144 For multi-screen projection (EPO):

This subclass is indented under subclass E5.143. This subclass is substantially the same in scope as ECLA classification H04N 5/74P5.

E5.145 Of head mounted projectors (EPO):

This subclass is indented under subclass E5.143. This subclass is substantially the same in scope as ECLA classification H04N 5/74P7.

E7.001 TELEVISION SYSTEMS (EPO)

This main group provides for television methods and devices for transmitting black-and-white picture signals. This subclass is substantially the same in scope as ECLA classification $H04N\ 7/00$.

SEE OR SEARCH THIS CLASS SUBCLASS:

E13.001, for stereoscopic television systems

E11.001, for systems specific to color television.

E5.001 and **E3.001**, for details of television systems.

E7.002 Systems with supplementary picture signal insertion during a portion of the active part of a television signal, e.g., during top and bottom lines in a HDTV letter-box system (EPO):

This subclass is indented under subclass E7.001. This subclass is substantially the same in scope as ECLA classification H04N 7/00L.

E7.003 Conversion of standards (EPO):

This subclass is indented under subclass E7.001. This subclass is substantially the same in scope as ECLA classification H04N 7/01.

E7.004 High-definition television systems (EPO):

This subclass is indented under subclass E7.001. This subclass is substantially the same in scope as ECLA classification H04N 7/015.

E7.005 Using spatial or temporal subsampling (EPO):

This subclass is indented under subclass E7.004. This subclass is substantially the same in scope as ECLA classification H04N 7/015B.

E7.006 Using pixel blocks (EPO):

This subclass is indented under subclass E7.005. This subclass is substantially the same in scope as ECLA classification H04N 7/015B2.

E7.007 With motion estimation, e.g., involving the use of motion vectors (EPO):

This subclass is indented under subclass E7.006. This subclass is substantially the same in scope as ECLA classification H04N 7/015B2M.

E7.008 Involving the resampling of the incoming video signal (EPO):

This subclass is indented under subclass E7.004. This subclass is substantially the same in scope as ECLA classification H04N 7/01A.

E7.009 Using a storage device with different write and read speed (EPO):

This subclass is indented under subclass E7.004. This subclass is substantially the same in scope as ECLA classification H04N 7/01B.

E7.01 Using beam gun storage (EPO):

This subclass is indented under subclass E7.009. This subclass is substantially the same in scope as ECLA classification H04N 7/01B2.

E7.011 Using magnetic recording (EPO):

This subclass is indented under subclass E7.009. This subclass is substantially the same in scope as ECLA classification H04N 7/01B4.

E7.012 Involving interpolation processes (EPO):

This subclass is indented under subclass E7.004. This subclass is substantially the same in scope as ECLA classification H04N 7/01D.

E7.013 Involving the use of motion vectors (EPO):

This subclass is indented under subclass E7.012. This subclass is substantially the same in scope as ECLA classification H04N 7/01D4.

E7.014 Dependent on presence/absence of motion, e.g., of motion zones (EPO):

This subclass is indented under subclass E7.012. This subclass is substantially the same in scope as ECLA classification H04N 7/01D2.

E7.015 One of the standards corresponding to a cinematograph film standard (EPO):

This subclass is indented under subclass E7.004. This subclass is substantially the same in scope as ECLA classification H04N 7/01F.

E7.016 One of the standards being a high definition standard (EPO):

This subclass is indented under subclass E7.004. This subclass is substantially the same in scope as ECLA classification H04N 7/01H.

E7.017 Systems for the transmission of digital nonpicture data, e.g., of text during the active part of a television frame (EPO):

This subclass is indented under subclass E7.001. This subclass is substantially the same in scope as ECLA classification H04N 7/025.

SEE OR SEARCH THIS SUBCLASS:

E7.031, for the transmission of non-picture data during the vertical blanking interval only.

E7.018 Display systems therefor (EPO):

This subclass is indented under subclass E7.017. This subclass is substantially the same in scope as ECLA classification H04N 7/025D.

E7.019 Subscription systems therefor (EPO):

This subclass is indented under subclass E7.017. This subclass is substantially the same in scope as ECLA classification H04N 7/03.

E7.02 Circuits for the digital non-picture data signal, e.g., for slicing of the data signal, for regeneration of the data-clock signal, for error detection or correction of the data signal (EPO):

This subclass is indented under subclass E7.017. This subclass is substantially the same in scope as ECLA classification H04N 7/035.

E7.021 For regeneration of the clock signal (EPO):

This subclass is indented under subclass E7.02. This subclass is substantially the same in scope as ECLA classification H04N 7/035C.

E7.022 For discrimination of the binary level of the digital data, e.g., amplitude slicers (EPO):

This subclass is indented under subclass E7.02. This subclass is substantially the same in scope as ECLA classification H04N 7/035D.

E7.023 For error detection or correction (EPO):

This subclass is indented under subclass E7.02. This subclass is substantially the same in scope as ECLA classification H04N 7/035E.

E7.024 Systems for the simultaneous or sequential transmission of more than one television signal, e.g. additional information signals, the signals occupying wholly or partially the same frequency band (EPO):

This subclass is indented under subclass E7.001 This subclass is substantially the same in scope as ECLA classification $H04N\ 7/08$.

(1) Note. The more than one television signal of this subclass type may share the same frequency band by, for example, time division.

E7.025 The additional information signals being transmitted by means of a subcarrier (EPO):

This subclass is indented under subclass E7.024. This subclass is substantially the same in scope as ECLA classification H04N 7/081.

E7.026 With signal insertion during the vertical and the horizontal blanking interval (EPO):

This subclass is indented under subclass E7.024. This subclass is substantially the same in scope as ECLA classification H04N 7/083.

(1) Note. An example of signals of this subclass type is MAC data signals.

E7.027 With signal insertion during the horizontal blanking interval (EPO):

This subclass is indented under subclass E7.024. This subclass is substantially the same in scope as ECLA classification H04N 7/084.

E7.028 The inserted signal being digital (EPO):

This subclass is indented under subclass E7.027. This subclass is substantially the same in scope as ECLA classification H04N 7/085.

E7.029 The signal being time-compressed before its insertion and subsequently decompressed at reception (EPO):

This subclass is indented under subclass E7.028. This subclass is substantially the same in scope as ECLA classification H04N 7/085B.

E7.03 With signal insertion during the vertical blanking interval (EPO):

This subclass is indented under subclass E7.024. This subclass is substantially the same in scope as ECLA classification H04N 7/087.

E7.031 The inserted signal being digital (EPO):

This subclass is indented under subclass E7.03. This subclass is substantially the same in scope as ECLA classification H04N 7/088.

E7.032 The signal being time-compressed before its insertion and subsequently decompressed at reception (EPO):

This subclass is indented under subclass E7.031. This subclass is substantially the same in scope as ECLA classification H04N 7/088A.

E7.033 For the transmission of character code signals, e.g., for teletext (EPO):

This subclass is indented under subclass E7.031. This subclass is substantially the same in scope as ECLA classification H04N 7/088B.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E7.020, for circuits for the digital non-picture data signal.

E7.034 For the transmission of additional display-information, e.g., menu for program or channel selection (EPO):

This subclass is indented under subclass E7.031. This subclass is substantially the same in scope as ECLA classification H04N 7/088D.

E7.035 For the transmission of subtitles (EPO):

This subclass is indented under subclass E7.034. This subclass is substantially the same in scope as ECLA classification H04N 7/088D2.

E7.036 For the transmission of program or channel identifying signals (EPO):

This subclass is indented under subclass E7.031. This subclass is substantially the same in scope as ECLA classification H04N 7/088P.

E7.037 Subscription systems therefor (EPO):

This subclass is indented under subclass E7.031. This subclass is substantially the same in scope as ECLA classification H04N 7/088S.

E7.038 Using frequency interleaving, e.g., with precision offset (EPO):

This subclass is indented under subclass E7.024. This subclass is substantially the same in scope as ECLA classification H04N 7/08A.

E7.039 The signals being two or more video signals (EPO):

This subclass is indented under subclass E7.024. This subclass is substantially the same in scope as ECLA classification H04N 7/08C.

E7.04 Systems for the transmission of one television signal, i.e., both picture and sound, by a single carrier (EPO):

This subclass is indented under subclass E7.001. This subclass is substantially the same in scope as ECLA classification H04N 7/04.

E7.041 The carrier being frequency modulated (EPO):

This subclass is indented under subclass E7.04. This subclass is substantially the same in scope as ECLA classification H04N 7/045

E7.042 Systems for the simultaneous transmission of one television signal, i.e., both picture and sound, by more than one carrier (EPO):

This subclass is indented under subclass E7.001. This subclass is substantially the same in scope as ECLA classification H04N 7/06.

E7.043 Simultaneous transmission of separate parts of one picture (EPO):

This subclass is indented under subclass E7.042. This subclass is substantially the same in scope as ECLA classification H04N 7/06B.

E7.044 The carriers being allocated to more than one television channel (EPO):

This subclass is indented under subclass E7.042. This subclass is substantially the same in scope as ECLA classification H04N 7/06C.

E7.045 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 (EPO):

This subclass is indented under subclass E7.001. This subclass is substantially the same in scope as ECLA classification H04N 7/12.

SEE OR SEARCH THIS CLASS:

E3.001, for special scanning.

E7.004, high definition television systems.

E7.046 Involving expansion and subsequent compression of a signal segment, e.g., a frame, a line (EPO):

This subclass is indented under subclass E7.045. This subclass is substantially the same in scope as ECLA classification H04N 7/12C.

E7.047 The signal segment being a picture element (EPO):

This subclass is indented under subclass E7.046 This subclass is substantially the same in scope as ECLA classification $H04N\ 7/12C2$

E7.048 Systems in which different parts of the picture signal frequency band are individually processed, e.g., suppressed, transposed (EPO):

This subclass is indented under subclass E7.045. This subclass is substantially the same in scope as ECLA classification H04N 7/12D.

E7.049 Adaptations for transmission by electric cable (EPO):

This subclass is indented under subclass E7.001. This subclass is substantially the same in scope as ECLA classification H04N 7/10.

E7.05 For domestic distribution (EPO):

This subclass is indented under subclass E7.049. This subclass is substantially the same in scope as ECLA classification H04N 7/10H.

E7.051 The cable being constituted by a pair of wires (EPO):

This subclass is indented under subclass E7.049. This subclass is substantially the same in scope as ECLA classification H04N 7/10W.

E7.052 Circuits therefor, e.g., noise reducers, equalizers, amplifiers (EPO):

This subclass is indented under subclass E7.049. This subclass is substantially the same in scope as ECLA classification H04N 7/10C

E7.053 Switchers or splitters (EPO):

This subclass is indented under subclass E7.052 This subclass is substantially the same in scope as ECLA classification H04N 7/10C2

E7.054 Secrecy systems; Subscription systems (EPO):

This subclass is indented under subclass E7.001. This subclass is substantially the same in scope as ECLA classification H04N 7/16.

E7.055 Systems rendering the television signal unintelligible and subsequently intelligible (EPO):

This subclass is indented under subclass E7.054. This subclass is substantially the same in scope as ECLA classification H04N 7/167.

E7.056 Providing digital key or authorization information for generation or regeneration of the scrambling sequence (EPO):

This subclass is indented under subclass E7.055 This subclass is substantially the same in scope as ECLA classification H04N 7/167D.

E7.057 Systems operating in the time domain of the television signal (EPO):

This subclass is indented under subclass E7.055. This subclass is substantially the same in scope as ECLA classification H04N 7/169.

E7.058 By displacing synchronization signals relative to active picture signals or vice versa (EPO):

This subclass is indented under subclass E7.057. This subclass is substantially the same in scope as ECLA classification H04N 7/169B.

E7.059 By changing or reversing the order of active picture signal portions (EPO):

This subclass is indented under subclass E7.057. This subclass is substantially the same in scope as ECLA classification H04N 7/169C.

E7.06 Authorizing the user terminal, e.g., by paying; registering the use of a subscription channel, e.g. billing (EPO):

This subclass is indented under subclass E7.054. This subclass is substantially the same in scope as ECLA classification H04N 7/16E.

E7.061 By receiver means only (EPO):

This subclass is indented under subclass E7.06. This subclass is substantially the same in scope as ECLA classification H04N 7/16E2.

E7.062 Coin-freed apparatus (EPO):

This subclass is indented under subclass E7.061. This subclass is substantially the same in scope as ECLA classification H04N 7/16E2B.

E7.063 Centralized control of user terminal; registering at central (EPO):

This subclass is indented under subclass E7.06. This subclass is substantially the same in scope as ECLA classification H04N 7/16E3.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E7.074, for centralized control of user terminal subsequent to an upstream request signal.

E7.070, for registering at central by two-way working.

E7.064 Constructional details of the subscriber equipment (EPO):

This subclass is indented under subclass E7.054. This subclass is substantially the same in scope as ECLA classification H04N 7/16D.

E7.065 Passage/non-passage of the television signal, e.g., jamming, band suppression (EPO):

This subclass is indented under subclass E7.054. This subclass is substantially the same in scope as ECLA classification H04N 7/16F.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E7.055, for scrambling and descrambling.

E7.066 Systems operating in the amplitude domain of the television signal (EPO):

This subclass is indented under subclass E7.065. This subclass is substantially the same in scope as ECLA classification H04N 7/171.

E7.067 By modifying synchronization signals (EPO):

This subclass is indented under subclass E7.066. This subclass is substantially the same in scope as ECLA classification H04N 7/171B.

E7.068 By inverting the polarity of active picture signal portions (EPO):

This subclass is indented under subclass E7.066. This subclass is substantially the same in scope as ECLA classification H04N 7/171C.

E7.069 With two-way working, e.g., subscriber sending a program selection signal (EPO):

This subclass is indented under subclass E7.054. This subclass is substantially the same in scope as ECLA classification H04N 7/173.

E7. 07 Transmission or handling of upstream communications (EPO):

This subclass is indented under subclass E7.069. This subclass is substantially the same in scope as ECLA classification H04N 7/173B.

E7.071 Direct or substantially direct transmission and handling of requests (EPO):

This subclass is indented under subclass E7.07. This subclass is substantially the same in scope as ECLA classification H04N 7/173B2.

E7.072 With deferred transmission or handling of upstream communications (EPO):

This subclass is indented under subclass E7.070. This subclass is substantially the same in scope as ECLA classification H04N 7/173B3.

E7.073 Handling of requests in head-ends (EPO):

This subclass is indented under subclass E7.07. This subclass is substantially the same in scope as ECLA classification H04N 7/173B4.

E7.074 Control of the passage of the selected program (EPO):

This subclass is indented under subclass E7.069. This subclass is substantially the same in scope as ECLA classification H04N 7/173C.

E7.075 In an intermediate station common to a plurality of user terminals (EPO):

This subclass is indented under subclass E7.074. This subclass is substantially the same in scope as ECLA classification H04N 7/173C2.

E7.076 At or near the user terminal (EPO):

This subclass is indented under subclass E7.074. This subclass is substantially the same in scope as ECLA classification H04N 7/173C3.

E7.077 Systems for two-way working (EPO):

This subclass is indented under subclass E7.001. This subclass is substantially the same in scope as ECLA classification H04N 7/14.

E7.078 Between two video terminals, e.g., videophone (EPO):

This subclass is indented under subclass E7.077. This subclass is substantially the same in scope as ECLA classification H04N 7/14A.

E7.079 Constructional details of the terminal equipment, e.g., arrangements of the camera and the display (EPO):

This subclass is indented under subclass E7.078. This subclass is substantially the same in scope as ECLA classification H04N 7/14A2.

E7.08 Camera and display on the same optical axis, e.g., optically multiplexing the camera and display for eye to eye contact (EPO):

This subclass is indented under subclass E7.079. This subclass is substantially the same in scope as ECLA classification H04N 7/14A2B.

E7.081 Communication arrangements, e.g., identifying the communication as a videocommunication, intermediate storage of the signals (EPO):

This subclass is indented under subclass E7.078. This subclass is substantially the same in scope as ECLA classification H04N 7/14A3.

E7.082 Interfacing a video terminal to a particular transmission medium, e.g., ISDN (EPO):

This subclass is indented under subclass E7.078. This subclass is substantially the same in scope as ECLA classification H04N 7/14A4.

E7.083 Conference systems (EPO):

This subclass is indented under subclass E7.077. This subclass is substantially the same in scope as ECLA classification H04N 7/15.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E7.078, for video-terminal details.

E7. 084 Multipoint control units therefor (EPO):

This subclass is indented under subclass E7.083. This subclass is substantially the same in scope as ECLA classification H04N 7/15M.

E7.085 Closed circuit television systems, i.e., systems in which the signal is not broadcast (EPO):

This subclass is indented under subclass E7.001. This subclass is substantially the same in scope as ECLA classification H04N 7/18.

E7.086 For receiving images from a plurality of remote sources (EPO):

This subclass is indented under subclass E7.085. This subclass is substantially the same in scope as ECLA classification H04N 7/18C.

E7.087 For receiving images from a single remote source (EPO):

This subclass is indented under subclass E7.085. This subclass is substantially the same in scope as ECLA classification H04N 7/18D.

E7.088 From a mobile camera, e.g., for remote control (EPO):

This subclass is indented under subclass E7.087. This subclass is substantially the same in scope as ECLA classification H04N 7/18D2.

E7.089 Video door telephones (EPO):

This subclass is indented under subclass E7.087. This subclass is substantially the same in scope as ECLA classification H04N 7/18D3.

E7.09 Capturing isolated or intermittent images triggered by the occurrence of a predetermined event, e.g., an object reaching a predetermined position (EPO):

This subclass is indented under subclass E7.085. This subclass is substantially the same in scope as ECLA classification H04N 7/18E.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E5.049, for signal generation from motion picture films.

E7.091 Special television systems not provided for by E7.002 to E7.085 (EPO):

This subclass is indented under subclass E7.001. This subclass is substantially the same in scope as ECLA classification H04N 7/00B.

E7.092 Using at least one opto-electrical conversion device (EPO):

This subclass is indented under subclass E7.091. This subclass is substantially the same in scope as ECLA classification H04N 7/00B3.

E7.093 Adaptations for transmission via a GHz frequency band, e.g., via satellite (EPO):

This subclass is indented under subclass E7.001. This subclass is substantially the same in scope as ECLA classification H04N 7/20.

E7.094 Adaptations for optical transmission (EPO):

This subclass is indented under subclass E7.001. This subclass is substantially the same in scope as ECLA classification H04N 7/22.

E9.001 DETAILS OF COLOR TELEVISION SYSTEMS (EPO):

This subclass provides for details of television methods and devices wherein the picture signal includes portions indicating the existing color of an original object or scene. This subclass is substantially the same in scope as ECLA classification H04N 9/00.

E9.002 Picture signal generators (EPO):

This subclass is indented under subclass E9.001. This subclass is substantially the same in scope as ECLA classification H04N 9/04.

E9.003 With one pick-up device only (EPO):

This subclass is indented under subclass E9.002. This subclass is substantially the same in scope as ECLA classification H04N 9/07.

E9.004 Whereby the color signals are characterized by their phase (EPO):

This subclass is indented under subclass E9.003. This subclass is substantially the same in scope as ECLA classification H04N 9/077.

E9.005 Whereby the color signals are characterized by their frequency (EPO):

This subclass is indented under subclass E9.003. This subclass is substantially the same in scope as ECLA classification H04N 9/083.

E9.006 With more than one pick-up device (EPO):

This subclass is indented under subclass E9.002. This subclass is substantially the same in scope as ECLA classification H04N 9/09.

E9.007 Systems for avoiding or correcting misregistration of video signals (EPO):

This subclass is indented under subclass E9.006. This subclass is substantially the same in scope as ECLA classification H04N 9/093.

E9.008 Optical arrangements associated therewith, e.g., for beam-splitting, for color correction (EPO):

This subclass is indented under subclass E9.006. This subclass is substantially the same in scope as ECLA classification H04N 9/097.

E9.009 Scanning of color motion picture films, e.g., for telecine (EPO):

This subclass is indented under subclass E9.002. This subclass is substantially the same in scope as ECLA classification H04N 9/11.

E9.01 Using solid-state devices (EPO):

This subclass is indented under subclass E9.002. This subclass is substantially the same in scope as ECLA classification H04N 9/04B.

E9.011 Using optical-mechanical scanning means only (EPO):

This subclass is indented under subclass E9.002. This subclass is substantially the same in scope as ECLA classification H04N 9/10.

E9.012 Picture reproducers (EPO):

This subclass is indented under subclass E9.001. This subclass is substantially the same in scope as ECLA classification H04N 9/12.

E9.013 Using optical-mechanical scanning means only (EPO):

This subclass is indented under subclass E9.012. This subclass is substantially the same in scope as ECLA classification H04N 9/14.

E9.014 Using cathode ray tubes (EPO):

This subclass is indented under subclass E9.012. This subclass is substantially the same in scope as ECLA classification H04N 9/16.

E9.015 With variable depth of penetration of electron beam into the luminescent layer, e.g., penetrons (EPO):

This subclass is indented under subclass E9.014. This subclass is substantially the same in scope as ECLA classification H04N 9/27.

E9.016 Using separate electron beams for the primary color signals (EPO):

This subclass is indented under subclass E9.014. This subclass is substantially the same in scope as ECLA classification H04N 9/18.

E9.017 With more than one beam in a tube (EPO):

This subclass is indented under subclass E9.016. This subclass is substantially the same in scope as ECLA classification H04N 9/20.

E9.018 Using the same beam for more than one primary color information (EPO):

This subclass is indented under subclass E9.014. This subclass is substantially the same in scope as ECLA classification H04N 9/22.

E9.019 Using means, integral with, or external to, the tube, for producing signal indicating instantaneous beam position (EPO):

This subclass is indented under subclass E9.018. This subclass is substantially the same in scope as ECLA classification H04N 9/24.

E9.02 Using electron-optical color selection means, e.g., line grid, deflection means in or near the gun or near the phosphor screen (EPO):

This subclass is indented under subclass E9.018. This subclass is substantially the same in scope as ECLA classification H04N 9/26.

E9.021 Arrangements for convergence or focusing (EPO):

This subclass is indented under subclass E9.014. This subclass is substantially the same in scope as ECLA classification H04N 9/28.

E9.022 Using quadruple lenses (EPO):

This subclass is indented under subclass E9.021. This subclass is substantially the same in scope as ECLA classification H04N 9/285.

E9.023 Using demagnetization or compensation of external magnetic fields (EPO):

This subclass is indented under subclass E9.014. This subclass is substantially the same in scope as ECLA classification H04N 9/29.

E9.024 Using solid-state color display devices (EPO):

This subclass is indented under subclass E9.012. This subclass is substantially the same in scope as ECLA classification H04N 9/30.

E9.025 Projection devices for color picture display (EPO):

This subclass is indented under subclass E9.012. This subclass is substantially the same in scope as ECLA classification H04N 9/31.

E9.026 Using laser beams scanning the display screen (EPO):

This subclass is indented under subclass E9.025. This subclass is substantially the same in scope as ECLA classification H04N 9/31L.

E9.027 Using light modulating optical valves (EPO):

This subclass is indented under subclass E9.025. This subclass is substantially the same in scope as ECLA classification H04N 9/31V.

E9.028 Conversion of monochrome picture signals to color picture signals for color picture display (EPO):

This subclass is indented under subclass E9.001. This subclass is substantially the same in scope as ECLA classification H04N 9/43.

E9.029 Color synchronization (EPO):

This subclass is indented under subclass E9.001. This subclass is substantially the same in scope as ECLA classification H04N 9/44.

E9.03 Generation or recovery of color sub-carriers (EPO):

This subclass is indented under subclass E9.029. This subclass is substantially the same in scope as ECLA classification H04N 9/45.

E9.031 Generation of color burst signals; Insertion of color burst signals in color picture signals or separation of color burst signals from color picture signals (EPO):

This subclass is indented under subclass E9.029. This subclass is substantially the same in scope as ECLA classification H04N 9/455.

E9.032 Synchronization of the PAL-switch (EPO):

This subclass is indented under subclass E9.029. This subclass is substantially the same in scope as ECLA classification H04N 9/465.

E9.033 For sequential signals (EPO):

This subclass is indented under subclass E9.029. This subclass is substantially the same in scope as ECLA classification H04N 9/47.

E9.034 For mutually locking different synchronization sources (EPO):

This subclass is indented under subclass E9.029. This subclass is substantially the same in scope as ECLA classification H04N 9/475.

E9.035 Circuits for processing the brightness signal and the chrominance signal relative to each other, e.g., adjusting the phase of the brightness signal relative to the color signal, correcting differential gain or differential phase (EPO):

This subclass is indented under subclass E9.001. This subclass is substantially the same in scope as ECLA classification H04N 9/77.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E9.047, for circuits for matrixing.

E9.036 For separating the brightness signal or the chrominance signal from the color television signal, e.g., using comb filter (EPO):

This subclass is indented under subclass E9.035. This subclass is substantially the same in scope as ECLA classification H04N 9/78.

E9.037 Circuits for processing color signals (EPO):

This subclass is indented under subclass E9.001. This subclass is substantially the same in scope as ECLA classification H04N 9/64.

E9.038 Multi-standard receivers (EPO):

This subclass is indented under subclass E9.037. This subclass is substantially the same in scope as ECLA classification H04N 9/64B.

E9.039 Multi-purpose receivers, e.g., for auxiliary information (EPO):

This subclass is indented under subclass E9.037. This subclass is substantially the same in scope as ECLA classification H04N 9/64A.

E9.04 Hue control means, e.g., flesh tone control (EPO):

This subclass is indented under subclass E9.037. This subclass is substantially the same in scope as ECLA classification H04N 9/64C.

E9.041 Beam current control means (EPO):

This subclass is indented under subclass E9.037. This subclass is substantially the same in scope as ECLA classification H04N 9/64D.

E9.042 For image enhancement, e.g., vertical detail restoration, cross-color elimination, contour correction, chrominance trapping filters (EPO):

This subclass is indented under subclass E9.037. This subclass is substantially the same in scope as ECLA classification H04N 9/64E.

E9.043 I.F amplifiers (EPO):

This subclass is indented under subclass E9.037. This subclass is substantially the same in scope as ECLA classification $H04N\ 9/64M$.

E9.044 Video amplifiers (EPO):

This subclass is indented under subclass E9.037. This subclass is substantially the same in scope as ECLA classification H04N 9/64V.

E9.045 For synchronous modulators (EPO):

This subclass is indented under subclass E9.037. This subclass is substantially the same in scope as ECLA classification H04N 9/65.

E9.046 For synchronous demodulators (EPO):

This subclass is indented under subclass E9.037. This subclass is substantially the same in scope as ECLA classification H04N 9/66.

E9.047 For matrixing (EPO):

This subclass is indented under subclass E9.037. This subclass is substantially the same in scope as ECLA classification H04N 9/67.

E9.048 For color killing (EPO):

This subclass is indented under subclass E9.037. This subclass is substantially the same in scope as ECLA classification H04N 9/70.

E9.049 Combined with color gain control (EPO):

This subclass is indented under subclass E9.048. This subclass is substantially the same in scope as ECLA classification H04N 9/71.

E9.05 For reinsertion of dc and slowly varying components of color signal (EPO):

This subclass is indented under subclass E9.037. This subclass is substantially the same in scope as ECLA classification H04N 9/72.

E9.051 Color balance circuits, e.g., white balance circuits, color temperature control (EPO):

This subclass is indented under subclass E9.037. This subclass is substantially the same in scope as ECLA classification H04N 9/73.

E9.052 For picture signal generators (EPO):

This subclass is indented under subclass E9.051. This subclass is substantially the same in scope as ECLA classification H04N 9/73B.

E9.053 For controlling the amplitude of color signals, e.g., automatic chroma control circuits (EPO):

This subclass is indented under subclass E9.037. This subclass is substantially the same in scope as ECLA classification $H04N\ 9/68$.

E9.054 For modifying the color signals by gamma correction (EPO):

This subclass is indented under subclass E9.053. This subclass is substantially the same in scope as ECLA classification H04N 9/69.

E9.055 For obtaining special effects (EPO):

This subclass is indented under subclass E9.037. This subclass is substantially the same in scope as ECLA classification H04N 9/74.

E9.056 Chroma key (EPO):

This subclass is indented under subclass E9.055. This subclass is substantially the same in scope as ECLA classification H04N 9/75.

E9.057 For mixing of color signals (EPO):

This subclass is indented under subclass E9.055. This subclass is substantially the same in scope as ECLA classification H04N 9/76.

E11.001 COLOR TELEVISION SYSTEMS (EPO):

This main group provides for television methods and devices wherein the picture signal includes portions indicating the existing color of an original object or scene. This subclass is substantially the same in scope as ECLA classification H04N 11/00.

SEE OR SEARCH THIS CLASS, SUBCLASS:

E9.001, for details of color television systems

E11.002 High definition systems (EPO):

This subclass is indented under subclass E11.001. This subclass is substantially the same in scope as ECLA classification H04N 11/00H.

E11.003 Involving two-channel transmission (EPO):

This subclass is indented under subclass E11.002. This subclass is substantially the same in scope as ECLA classification $H04N\ 11/00H2$.

E11.004 Involving bandwidth reduction, e.g., subsampling (EPO):

This subclass is indented under subclass E11.002. This subclass is substantially the same in scope as ECLA classification H04N 11/00H4.

E11.005 With transmission of the extra information by means of quadrature modulation (EPO):

This subclass is indented under subclass E11.002. This subclass is substantially the same in scope as ECLA classification H04N 11/00H6.

E11.006 With bandwidth reduction (EPO):

This subclass is indented under subclass E11.001. This subclass is substantially the same in scope as ECLA classification $H04N\ 11/02$.

E11.007 Transmission systems characterized by the manner in which the individual color picture signal components are combined (EPO):

This subclass is indented under subclass E11.001. This subclass is substantially the same in scope as ECLA classification H04N 11/06.

E11.008 Using sequential signals only (EPO):

This subclass is indented under subclass E11.007. This subclass is substantially the same in scope as ECLA classification H04N 11/08.

SEE OR SEARCH THIS CLASS. SUBCLASS:

E11.01 for dot sequential systems.

E11.009 In which color signals are inserted in the blanking interval of brightness signal (EPO):

This subclass is indented under subclass E11.008. This subclass is substantially the same in scope as ECLA classification $H04N\ 11/10$.

E11.01 Using simultaneous signals only (EPO):

This subclass is indented under subclass E11.007. This subclass is substantially the same in scope as ECLA classification $H04N\ 11/12$.

E11.011 In which one signal, modulated in phase and amplitude, conveys color information and a second signal conveys brightness information, e.g., NTSC-system (EPO):

This subclass is indented under subclass E11.01. This subclass is substantially the same in scope as ECLA classification H04N 11/14.

E11.012 The chrominance signal alternating in phase, e.g., PAL-system (EPO):

This subclass is indented under subclass E11.011. This subclass is substantially the same in scope as ECLA classification H04N 11/16.

E11.013 A resolution-increasing signal being multiplexed to the PAL-system signal, e.g., PAL-PLUS-system (EPO):

This subclass is indented under subclass E11.012. This subclass is substantially the same in scope as ECLA classification $H04N\ 11/16P$.

E11.014 Encoding means therefor (EPO):

This subclass is indented under subclass E11.012. This subclass is substantially the same in scope as ECLA classification H04N 11/16B.

E11.015 Decoding means therefor (EPO):

This subclass is indented under subclass E11.012. This subclass is substantially the same in scope as ECLA classification H04N 11/16C.

E11.016 Encoding means therefor (EPO):

This subclass is indented under subclass E11.011. This subclass is substantially the same in scope as ECLA classification $H04N\ 11/14B$.

E11.017 Decoding means therefor (EPO):

This subclass is indented under subclass E11.011. This subclass is substantially the same in scope as ECLA classification $H04N\ 11/14C$.

E11.018 Using simultaneous and sequential signals, e.g., SECAM-system (EPO):

This subclass is indented under subclass E11.007. This subclass is substantially the same in scope as ECLA classification H04N 11/18.

E11.019 Encoding means therefor (EPO):

This subclass is indented under subclass E11.018. This subclass is substantially the same in scope as ECLA classification H04N 11/18B.

E11.02 Decoding means therefor (EPO):

This subclass is indented under subclass E11.018. This subclass is substantially the same in scope as ECLA classification $H04N\ 11/18C$.

E11.021 Conversion of the manner in which the individual color picture signal components are combined, e.g., conversion of color television standards (EPO):

This subclass is indented under subclass E11.007. This subclass is substantially the same in scope as ECLA classification H04N 11/20.

E11.022 In which simultaneous signals are converted into sequential signals or vice versa (EPO):

This subclass is indented under subclass E11.021. This subclass is substantially the same in scope as ECLA classification $H04N\ 11/22$.

E13.001 STEREOSCOPIC TELEVISION SYSTEMS; DETAILS THEREOF (EPO):

This subclass provides for television methods and devices, including details thereof, wherein the picture signal includes information indicating the three-dimensional nature of the original object or scene. This subclass is substantially the same in scope as ECLA classification H04N 13/00.

E13.002 Systems where the three-dimensional effect is obtained by means of at least two 2D image signals from different viewpoint locations representing the interocular distance (EPO):

This subclass is indented under subclass E13.001. This subclass is substantially the same in scope as ECLA classification H04N 13/00S.

E13.003 Stereoscopic image signal generation (EPO):

This subclass is indented under subclass E13.002. This subclass is substantially the same in scope as ECLA classification H04N 13/00S2.

E13.004 Using a stereoscopic image camera (EPO):

This subclass is indented under subclass E13.003. This subclass is substantially the same in scope as ECLA classification H04N 13/00S2A.

E13.005 Having a single 2D image pickup sensor (EPO):

This subclass is indented under subclass E13.004. This subclass is substantially the same in scope as ECLA classification H04N 13/00S2A1.

E13.006 Using spectral multiplexing, i.e., simultaneously capturing several geometrical viewpoints separated by different spectral characteristics (EPO):

This subclass is indented under subclass E13.005. This subclass is substantially the same in scope as ECLA classification H04N 13/00S2A1B.

E13.007 Using spatial multiplexing, i.e., simultaneously capturing several geometrical viewpoints on different parts of the image pickup sensor (EPO):

This subclass is indented under subclass E13.005. This subclass is substantially the same in scope as ECLA classification H04N 13/00S2A1D.

E13.008 Using the relative movement between camera and object (EPO):

This subclass is indented under subclass E13.005. This subclass is substantially the same in scope as ECLA classification H04N 13/00S2A1M.

E13.009 Using temporal multiplexing, i.e., alternatively capturing several geometrical viewpoints separated in time (EPO):

This subclass is indented under subclass E13.005. This subclass is substantially the same in scope as ECLA classification H04N 13/00S2A1A.

E13.01 Having a parallax barrier (EPO):

This subclass is indented under subclass E13.005. This subclass is substantially the same in scope as ECLA classification H04N 13/00S2A1P.

E13.011 Having a fly-eve lenticular screen (EPO):

This subclass is indented under subclass E13.005. This subclass is substantially the same in scope as ECLA classification H04N 13/00S2A1T.

E13.012 Having a lenticular screen (EPO):

This subclass is indented under subclass E13.005. This subclass is substantially the same in scope as ECLA classification H04N 13/00S2A1S.

E13.013 Having a varifocal lens or mirror (EPO):

This subclass is indented under subclass E13.005. This subclass is substantially the same in scope as ECLA classification $H04N\ 13/00S2A1V$.

E13.014 Having two 2D image pickup sensors representing the interocular distance (EPO):

This subclass is indented under subclass E13.004. This subclass is substantially the same in scope as ECLA classification $H04N\ 13/00S2A2$.

E13.015 Having more than two 2D image pickup sensors (EPO):

This subclass is indented under subclass E13.004. This subclass is substantially the same in scope as ECLA classification H04N 13/00S2A3.

E13.016 Calibration aspects (EPO):

This subclass is indented under subclass E13.004. This subclass is substantially the same in scope as ECLA classification H04N 13/00S2A7.

E13.017 Having several image pickup sensors with different characteristics other than location or field of view, e.g., different resolution, color 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 (EPO):

This subclass is indented under subclass E13.004. This subclass is substantially the same in scope as ECLA classification H04N 13/00S2A8.

E13.018 In combination with an electromagnetic radiation source for illuminating the subject (EPO):

This subclass is indented under subclass E13.004. This subclass is substantially the same in scope as ECLA classification H04N 13/00S2A9.

E13.019 Color aspects (EPO):

This subclass is indented under subclass E13.003. This subclass is substantially the same in scope as ECLA classification H04N 13/00S2B.

E13.02 With monoscopic to stereoscopic image conversion (EPO):

This subclass is indented under subclass E13.003. This subclass is substantially the same in scope as ECLA classification H04N 13/00S2C.

E13.021 For generating stereoscopic image signals corresponding to more than two geometrical viewpoints (EPO):

This subclass is indented under subclass E13.003. This subclass is substantially the same in scope as ECLA classification H04N 13/00S2L.

E13.022 From a 3D object model, e.g., computer generated stereoscopic image signals (EPO):

This subclass is indented under subclass E13.003. This subclass is substantially the same in scope as ECLA classification H04N 13/00S2M.

E13.023The virtual viewpoint location being selected by the observer, e.g., observer tracking (EPO):

This subclass is indented under subclass E13.022. This subclass is substantially the same in scope as ECLA classification H04N 13/00S2M1.

E13.024 For generating monoscopic and stereoscopic images or mixed monoscopic/stereoscopic images, e.g., monoscopic and stereoscopic image generating modes or a stereoscopic image overlay window in a monoscopic image background (EPO):

This subclass is indented under subclass E13.003. This subclass is substantially the same in scope as ECLA classification $H04N\ 13/00S2N$.

E13.025 Synchronization or controlling aspects (EPO):

This subclass is indented under subclass E13.003. This subclass is substantially the same in scope as ECLA classification H04N 13/00S2Y.

E13.026 Stereoscopic image displaying (EPO):

This subclass is indented under subclass E13.002. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4.

E13.027 Using an autostereoscopic display, i.e., viewing by the user without the aid of special glasses (EPO):

This subclass is indented under subclass E13.026. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4A.

E13.028 Using a fly-eye lenticular screen (EPO):

This subclass is indented under subclass E13.027. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4A2.

E13.029 Using a lenticular screen (EPO):

This subclass is indented under subclass E13.027. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4A1.

E13.03 Using a parallax barrier, e.g., spatial light modulator (EPO):

This subclass is indented under subclass E13.027. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4A3.

E13.031Using an array of controllable light sources or a moving aperture or light source (EPO):

This subclass is indented under subclass E13.027. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4A7.

E13.032 Using a varifocal lens or mirror (EPO):

This subclass is indented under subclass E13.027. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4A9.

E13.033 Color aspects (EPO):

This subclass is indented under subclass E13.026. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4B.

E13.034Calibration aspects (EPO):

This subclass is indented under subclass E13.026. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4C.

E13.035 Using a digital micro mirror device (DMD) (EPO):

This subclass is indented under subclass E13.026. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4E.

E13.036 For viewing by the user with the aid of special glasses or head mounted displays (HMD), i.e., stereoscopic displaying (EPO):

This subclass is indented under subclass E13.026. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4G.

E13.037 With spectral multiplexing, i.e., simultaneously displaying left and right images separated using glasses with different spectral characteristics, e.g., anaglyph method or Pullfrich method (EPO):

This subclass is indented under subclass E13.036. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4G1.

E13.038 With polarization multiplexing, i.e., simultaneously displaying left and right images separated using glasses with different polarizing characteristics (EPO):

This subclass is indented under subclass E13.036. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4G3.

E13.039 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 (EPO):

This subclass is indented under subclass E13.036. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4G5.

E13.04 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 (EPO):

This subclass is indented under subclass E13.036. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4G7.

E13.041 With head mounted left-right displays (EPO):

This subclass is indented under subclass E13.036. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4G9.

E13.042 Using a half transparent mirror or prism (EPO):

This subclass is indented under subclass E13.026. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4H.

E13.043 For displaying simultaneously more than two geometrical viewpoints, i.e., look-around effect without observer tracking (EPO):

This subclass is indented under subclass E13.026. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4L.

E13.044 For displaying monoscopic and stereoscopic images or mixed

monoscopic/stereoscopic images, e.g., monoscopic and stereoscopic image displaying modes or a stereoscopic image overlay window in a monoscopic image background (EPO):

This subclass is indented under subclass E13.026. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4M.

E13.045 Using observer tracking (EPO):

This subclass is indented under subclass E13.026. This subclass is substantially the same in scope as ECLA classification $H04N\ 13/00S4T$.

E13.046 For several observers (EPO):

This subclass is indented under subclass E13.045. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4T1.

E13.047 For tracking with gaze detection, i.e., detecting the lines of sight of the observers eves (EPO):

This subclass is indented under subclass E13.045. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4T11.

E13.048 For tracking with variable interoccular distance or rotational head movements around the vertical axes (EPO):

This subclass is indented under subclass E13.045. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4T2.

E13.049 For tracking forward-backward translational head movements, i.e., longitudinal movements (EPO):

This subclass is indented under subclass E13.045. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4T3.

E13.05 For tracking left-right translational head movements, i.e., lateral movements (EPO):

This subclass is indented under subclass E13.045. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4T5.

E13.051 For tracking rotational head movements in a plane parallel to the screen (EPO):

This subclass is indented under subclass E13.045. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4T7.

E13.052 For tracking vertical translational head movements (EPO):

This subclass is indented under subclass E13.045. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4T9.

E13.053 Alternating rapidly the location of the left-right image components on the display screen (EPO):

This subclass is indented under subclass E13.026. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4U.

E13 .054 Using a volumetric display, i.e., systems where the image is built up from picture elements distributed over a volume (EPO):

This subclass is indented under subclass E13.026. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4V.

E13.055 The picture elements emitting light where a pair of light beams intersect in a transparent material (EPO):

This subclass is indented under subclass E13.054. This subclass is substantially the same in scope as ECLA classification $H04N\ 13/00S4V1$.

E13.056 The volume being generated by a moving, e.g., vibrating or rotating, surface (EPO):

This subclass is indented under subclass E13.054. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4V3.

E13.057 With depth sampling, i.e., the volume being constructed from a stack or sequence of 2D image planes (EPO):

This subclass is indented under subclass E13.054. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4V5.

E13.058 Using an image projection screen (EPO):

This subclass is indented under subclass E13.026. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4P.

E13.059 Synchronization or controlling aspects (EPO):

This subclass is indented under subclass E13.026. This subclass is substantially the same in scope as ECLA classification H04N 13/00S4Y.

E13.06 Stereoscopic image signal coding, multiplexing, processing, recording or transmission (EPO):

This subclass is indented under subclass E13.002. This subclass is substantially the same in scope as ECLA classification H04N 13/00S6.

E13.061 Color aspects (EPO):

This subclass is indented under subclass E13.06. This subclass is substantially the same in scope as ECLA classification H04N 13/00S6B.

E13.062 Coding or decoding stereoscopic image signals (EPO):

This subclass is indented under subclass E13.06. This subclass is substantially the same in scope as ECLA classification H04N 13/00S6C.

E13.063 Mixing stereoscopic image signals (EPO):

This subclass is indented under subclass E13.06. This subclass is substantially the same in scope as ECLA classification H04N 13/00S6M.

E13.064 Processing stereoscopic image signals (EPO):

This subclass is indented under subclass E13.06. This subclass is substantially the same in scope as ECLA classification H04N 13/00S6P.

E13.065 Transformation of stereoscopic image signals corresponding to virtual viewpoints, e.g., spatial image interpolation (EPO):

This subclass is indented under subclass E13.064. This subclass is substantially the same in scope as ECLA classification H04N 13/00S6P1.

E13.066 The virtual viewpoint location being selected by the observer, e.g., observer tracking with look around effect (EPO):

This subclass is indented under subclass E13.065. This subclass is substantially the same in scope as ECLA classification H04N 13/00S6P1V.

E13.067 Improving the 3D impression of a displayed stereoscopic image, e.g., with filtering or addition of monoscopic depth cues (EPO):

This subclass is indented under subclass E13.064. This subclass is substantially the same in scope as ECLA classification H04N 13/00S6P3.

E13.068 Format conversion of stereoscopic images, e.g., frame-rate, size,... (EPO):

This subclass is indented under subclass E13.064. This subclass is substantially the same in scope as ECLA classification H04N 13/00S6P5.

E13.069 Equalizing the characteristics of different image components in stereoscopic images, e.g., average brightness or color balance (EPO):

This subclass is indented under subclass E13.064. This subclass is substantially the same in scope as ECLA classification H04N 13/00S6P7.

E13.07 Switching stereoscopic image signals (EPO):

This subclass is indented under subclass E13.06. This subclass is substantially the same in scope as ECLA classification H04N 13/00S6S.

E13.071 Transmission of stereoscopic image signals (EPO):

This subclass is indented under subclass E13.06. This subclass is substantially the same in scope as ECLA classification H04N 13/00S6T.

E13.072 Multiplexing or demultiplexing different image signal components in stereoscopic image signals (EPO):

This subclass is indented under subclass E13.06. This subclass is substantially the same in scope as ECLA classification H04N 13/00S6U.

E13.073 Synchronization or controlling aspects (EPO):

This subclass is indented under subclass E13.06. This subclass is substantially the same in scope as ECLA classification H04N 13/00S6Y.

E13.074 Picture signal generators (EPO):

This subclass is indented under subclass E13.001. This subclass is substantially the same in scope as ECLA classification H04N 13/02.

E13.075 Picture reproducers (EPO):

This subclass is indented under subclass E13.001. This subclass is substantially the same in scope as ECLA classification H04N 13/02.

E15.001 STEREOSCOPIC COLOR TELEVISION SYSTEMS; DETAILS THEREOF (EPO):

This subclass provides for television methods and devices, including details thereof, wherein the picture signal includes information indicating both the color and the three-dimensional nature of the original object or scene. This subclass is substantially the same in scope as ECLA classification H04N 15/00.

E17.001 DIAGNOSIS, TESTING OR MEASURING FOR TELEVISION SYSTEMS OR THEIR DETAILS (EPO):

This group of subclasses provides for methods and devices separate from the television system or components thereof for monitoring, testing, or measuring parameters of the television system or its components. This subclass is substantially the same in scope as ECLA classification H04N 17/00.

E17.002 For television cameras (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification $H04N\ 17/00C$.

E17.003 For digital television systems (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification H04N 17/00N.

E17.004 For color television signals (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification H04N 17/02.

E17.005 For receivers (EPO):

This subclass is indented under subclass E17.001. This subclass is substantially the same in scope as ECLA classification $H04N\ 17/04$.

E17.006 Self-contained testing apparatus (EPO):

This subclass is indented under subclass E17.005. This subclass is substantially the same in scope as ECLA classification $H04N\ 17/04B$.