

1	PROCESSING OF COLOR TELEVISION SIGNAL FOR DYNAMIC RECORDING OR REPRODUCING	34	.Digitizing, processing, and converting of analog color television signal
2	.Drop-out correction	35	.Selective recording or reproducing
3	..Including switching means and delay means	36	.Channel splitting
4	.Editing	37	.High definition television recording or reproducing
5	.Line, field, or frame skipping	38	.Including television camera
6	.Fast reproducing	39	.Including audio signal
7	.Slow producing	40	.Digital recording or reproducing
8	.Still reproducing	41	.Phase control of carrier signal
9	.Signal amplitude level control	42	.Using light or beam
10	..Including color burst or reference signal	43	..Color signal in nonpictorial form
11	...Color killer	44	.Separately processed luminance and chrominance
12	.Synchronization signal modification	45	.Using disc
13	.Time (e.g., phase or frequency) correction	46	PROCESSING OF TELEVISION SIGNAL FOR DYNAMIC RECORDING OR REPRODUCING
14	..By controlling relative transducer/record medium speed	47	.Drop-out correction
15	...Disc	48	..For synchronization signal
16	..Using recorded reference (e.g., pilot signal)	49	..Using static memory or delay means
17	..Phase or frequency matching of color television signal component to an external reference	50	...Interpolation
18	...Using variable delay	51	.Specific drop-out detection
19	...Color burst	52	.Editing
20	..Digital technique	53	..Fading-in and fading-out
21	.Recorder or reproducer fault condition compensation	54	..Audio signal
22	..Crosstalk	55	..Editing decision list (EDL)
23	..Heads having different azimuth angles	56	..Rewrite after read
24	...Different phase between adjacent lines or fields of color television signal	57	..Control track
25	..Comb filtering	58	...Phase comparison
26	.Frequency modulation for recording on the same track	59	...Counting control pulse
27	..Compressing when recording or decompressing when reproducing	60	...Numerical code
28	..Phase shifting	61	..Using synchronization signal
29	..Having another signal	62	...Numerical code
30	.Using diffraction technique or strip filter	63	..Having erasing head
31	.Separately processed primary color signals	64	..Having auxiliary dynamic memory means
32	..Separately recorded	65	.Having time code for addressing signal
33	.Compressing when recording or decompressing when reproducing	66	.Synchronizing of recording or reproducing devices
		67	.Long play recording
		68	.Fast, slow, or stop reproducing
		69	..Track searching
		70	...Disc
		71	..Synchronization signal modification
		72	..Including head switching means
		73	..Interpolation

74	..Different azimuth	112	..Digital compressing
75	..Having audio	113	.Recorder or reproducer fault condition compensation
76	..Noise reducing circuit	114	..Noise reduction
77	..Having static memory	115	...Crosstalk
78	..Locus or track control	116	..Digital technique
79	...Using control signal on the recording medium	117	.Including television camera
80	..Automatic control of the speed of the medium	118	..Housing or mounting
81	..Tape	119	..Synchronizing
82	..Disc	120	..Selective mode (e.g., still or motion)
83	.Including programmable apparatus	121	.Single still or frame recording
84	.Synchronization signal modification	122	.Channel splitting
85	.Time (e.g., phase or frequency) correction	123	.High definition television recording or reproducing
86	..Of relative transducer/record medium speed	124	.Digital recording or reproducing
87	...By controlling speed of record medium	125	.Using disc
88	..Using recorded reference (e.g., pilot signal)	126	..Optical
89	..Using variable delay	127	.Onto thermoplastic record
90	..Digital technique	128	.Using light or beam
91	...By controlling read-write operations	129	..Recording at different frame rate
92	.Simultaneously recording of a plurality of television signals	130	..Cathode-ray tube
93	.Signal amplitude level control	131	.Converting one television format to another
94	.Record protection (e.g., anti-copying)		
95	.Having another signal		
96	..Audio signal		
97	...Selective mode (e.g., mono, stereo, or bilingual)		
98	...Multiplexing or demultiplexing		
99	...Plurality of audio channels		
100	...Fault condition compensation		
101	...Time compressing		
102	...Including mixing or adding means		
103	...On a different substrate of the recording medium		
104	...Digital audio signal		
105Disc		
106	...Disc		
107	...Including television camera		
108	..Television signal		
109	.Compressing in recording or decompressing in reproducing		
110	..Line, field, or frame skipping		
111	..Intraframe or interframe		

E-SUBCLASSES

The following subclasses beginning with the letter E are E-subclasses. Each E-subclass corresponds in scope to a classification in a foreign classification system, for example, the European Classification system (ECLA). The foreign classification equivalent to an E-subclass is identified in the subclass definition. In addition to U.S. documents classified in E-subclasses by U.S. examiners, documents are regularly classified in E-subclasses according to the classification practices of any foreign Offices identified in parentheses at the end of the title. For example, "(EPO)" at the end of a title indicates both European and U.S. patent documents, as classified by the EPO, are regularly added to the subclass. E-subclasses may contain subject matter outside the scope of this class. Consult the E-subclass definitions, or the documents themselves, to clarify or interpret titles.

- E9.001 **PROCESSING OF COLOR TELEVISION SIGNALS IN CONNECTION WITH RECORDING (EPO)**
- E9.002 ..For controlling the level of the chrominance signal (e.g., by means of automatic chroma control circuits, etc.) (EPO)
- E9.003 ..The level control being frequency-dependent (EPO)
- E9.004 ...By using a pre-emphasis network at the recording side and a de-emphasis network at the reproducing side (EPO)
- E9.005 ..Using intermediate digital signal processing (EPO)
- E9.006 ..Suppression of interfering signals at the reproducing side (e.g., noise, etc.) (EPO)
- E9.007 ..The interfering signals being intermodulation signals (EPO)
- E9.008 ..The interfering signals being cross-talk signals (EPO)
- E9.009 ..For more than one processing mode (EPO)
- E9.01 ..For more than one standard (EPO)
- E9.011 ..Transformation of the television signal for recording (e.g., modulation, frequency changing, etc.);inverse transformation for playback (EPO)
- E9.012 ..Involving pulse code modulation of the color picture signal components (EPO)
- E9.013 ...Involving data reduction (EPO)
- E9.014Using predictive coding (EPO)
- E9.015Using transform coding (EPO)
- E9.016 ...With processing of the sound signal (EPO)
- E9.017Using time division multiplex of the PCM audio and PCM video signals (EPO)
- E9.018With insertion of the PCM audio signals in the vertical blanking interval of the PCM video signal (EPO)
- E9.019 ..Involving pulse code modulation of the composite color video-signal (EPO)
- E9.02 ...Involving data reduction (EPO)
- E9.021Using predictive coding (EPO)
- E9.022 ...With processing of the sound signal (EPO)
- E9.023Using time division multiplex of the PCM audio and PCM video signals (EPO)
- E9.024With insertion of the PCM audio signals in the vertical blanking interval of the PCM video signal (EPO)
- E9.025 ..The individual color picture signal components being recorded sequentially only (EPO)
- E9.026 ..The individual color picture signal components being recorded simultaneously only (EPO)
- E9.027 ...The luminance and chrominance signals being recorded in separate channels (EPO)
- E9.028With sound processing (EPO)
- E9.029 ...The recorded chrominance signal occupying a frequency band under the frequency band of the recorded brightness signal (EPO)
- E9.03Involving processing of the sound signal (EPO)
- E9.031The sound carriers being frequency multiplexed between the luminance carrier and the chrominance carrier (EPO)
- E9.032Using intermediate digital signal processing (EPO)
- E9.033Using an increased bandwidth for the luminance or the chrominance signal (EPO)
- E9.034With selection of the conventional or the increased bandwidth signal (e.g., VHS or SVHS signal selection, etc.) (EPO)
- E9.035 ...The recorded signal showing a feature, which is different in adjacent track parts (e.g., different phase or frequency, etc.) (EPO)
- E9.036 ..Involving the multiplexing of an additional signal and the color video signal (EPO)
- E9.037The additional signal being a sound signal (EPO)
- E9.038Using time division multiplex (EPO)
- E9.039Using frequency division multiplex (EPO)

- E9.04 ...The additional signal being at least another television signal (EPO)
- E9.041 ...The additional signal being a character code signal (EPO)
- E9.042 For teletext (EPO)
- E9.043 Involving the use of subcodes (EPO)
- E9.044 ...The recorded brightness signal occupying a frequency band totally overlapping the frequency band of the recorded chrominance signal (e.g., frequency interleaving, etc.) (EPO)
- E9.045 ..Involving processing of the sound signal (EPO)
- E9.046 ..The individual color picture signal components being recorded sequentially and simultaneously (e.g., corresponding to SECAM-system, etc.) (EPO)
- E9.047 .For recording the signal in a plurality of channels, the bandwidth of each channel being less than the bandwidth of the signal (EPO)
- E9.048 ..By dividing the luminance or color component signal samples or frequency bands among a plurality of recording channels (EPO)
- E9.049 ..By spectrum folding of the high frequency components of the luminance signal (EPO)
- E9.05 ..Regeneration of color television signals (EPO)
- E9.051 ..For restoring the color component sequence of the reproduced chrominance signal (EPO)
- E9.052 ..By assembling picture element blocks in an intermediate memory (EPO)
- E9.053 ..Using a demodulator and a remodulator (e.g., for standard conversion, etc.) (EPO)
- E9.054 ..Involving the mixing of the reproduced video signal with a non-recorded signal (e.g., a text signal, etc.) (EPO)
- E9.055 ..Regeneration of a color reference signal (e.g., the color synchronization burst signal, the chrominance signal carrier, etc.) (EPO)
- E9.056 ..Signal drop-out compensation (EPO)
- E9.057 ...The signal being a composite color television signal (EPO)
- E9.058 ...Using a digital intermediate memory (EPO)
- E9.059 ...For signals recorded by pulse code modulation (EPO)
- E9.06 ..Time-base error compensation (EPO)
- E9.061 ...Using an analogue memory (e.g., a CCD shift register) the delay of which is controlled by a voltage controlled oscillator (EPO)
- E9.062 ...Using a digital memory with independent write-in and read-out clock generators (EPO)
- E9.063 ..Using frequency multiplication of the reproduced color signal carrier with another auxiliary reproduced signal (e.g., a pilot signal carrier) (EPO)
- E5.001 **TELEVISION SIGNAL RECORDING (EPO)**
- E5.002 .Interface circuits between an apparatus for recording and another apparatus (EPO)
- E5.003 .Television signal processing therefor (EPO)
- E5.004 ..For scrambling; for copy protection (EPO)
- E5.005 ..For field- or frame-skip recording or reproducing (EPO)
- E5.006 ...With sound multiplexing (EPO)
- E5.007 ..For bandwidth reduction (EPO)
- E5.008 ...By dividing samples or signal segments (e.g., television lines, etc.) among a plurality of recording channels (EPO)
- E5.009 ..Transformation of the television signal for recording (e.g., modulation, frequency changing, etc.); inverse transformation for playback (EPO)
- E5.01 ...By recording or reproducing the baseband signal (EPO)
- E5.011 ...Using pre-emphasis of the signal before modulation and de-emphasis of the signal after demodulation (EPO)

- E5.012 ...By pulse code modulation (EPO)
- E5.013Involving data reduction (EPO)
- E5.014Using predictive coding (EPO)
- E5.015Using transform coding (EPO)
- E5.016 ...With processing of the sound signal (EPO)
- E5.017Using time division multiplex of the PCM audio and PCM video signals (EPO)
- E5.018With insertion of the PCM audio signals in the vertical blanking interval of the PCM video signal (EPO)
- E5.019 ...The sound signal being pulse code modulated and recorded in time division multiplex with the modulated video signal (EPO)
- E5.02 ...Involving the multiplexing of an additional signal and the video signal (EPO)
- E5.021The additional signal being a sound signal (EPO)
- E5.022Using time division multiplex (EPO)
- E5.023Using frequency division multiplex (EPO)
- E5.024 ...The additional signal being at least another television signal (EPO)
- E5.025The additional signal being a character code signal (EPO)
- E5.026For teletext (EPO)
- E5.027Involving the use of subcodes (EPO)
- E5.028 ..Regeneration of the television signal or of selected parts thereof (EPO)
- E5.029 ...For restoring the level of the reproduced signal (EPO)
- E5.03The level control being frequency dependent (EPO)
- E5.031 ...Regeneration of analogue synchronization signals (EPO)
- E5.032 ...Regeneration of digital synchronization signals (EPO)
- E5.033 ...By assembling picture element blocks in an intermediate store (EPO)
- E5.034 ...Involving the mixing of the reproduced video signal with a non-recorded signal (e.g., a text signal, etc.) (EPO)
- E5.035 ...Signal drop-out compensation (EPO)
- E5.036For signals recorded by pulse code modulation (EPO)
- E5.037 ...Time-base error compensation (EPO)
- E5.038 ...By using an analogue memory (e.g., a CCD shift register, etc.) the delay of which is controlled by a voltage controlled oscillator (EPO)
- E5.039 ...By using a digital memory with independent write-in and read-out clock generators (EPO)
- E5.04 ..For the suppression of noise (EPO)
- E5.041 ..Using magnetic recording (EPO)
- E5.042 ..On discs or drums (EPO)
- E5.043 ..On tape (EPO)
- E5.044 ...With stationary magnetic heads (EPO)
- E5.045 ...With rotating magnetic heads (EPO)
- E5.046Involving helical scanning of the magnetic tape (EPO)
- E5.047For recording on tracks inclined relative to the direction of movement of the tape (EPO)
- E5.048Using more than one track for the recording of one television field or frame (i.e., segmented recording) (EPO)
- E5.049 ...Involving transversal scanning of the magnetic tape (EPO)
- E5.05 ...Recording using a special track configuration (e.g., crossing, overlapping, etc.) (EPO)
- E5.051 ...Involving recording in different depths of the magnetic tape (EPO)
- E5.052 ...Adaptations for reproducing at a rate different from the recording rate (EPO)
- E5.053 ..On a sheet (EPO)
- E5.054 ..Recording or playback not using inductive heads (e.g., magneto-optical, thermomagnetic, magnetostrictive, galvanomagnetic, etc.) (EPO)

- E5.055 .Using electrostatic recording
(EPO)
- E5.056 ..On discs or drums (EPO)
- E5.057 ..Using deformable thermoplastic
recording medium (EPO)
- E5.058 ...On discs or drums (EPO)
- E5.059 .Using holographic recording
(EPO)
- E5.06 ..On discs or drums (EPO)
- E5.061 .Using optical recording (EPO)
- E5.062 ..On film (EPO)
- E5.063 ...The film moving intermittently
(EPO)
- E5.064 ..On discs or drums (EPO)
- E5.065 ..Producing a motion picture film
from a television signal (EPO)
- E5.066 .Using variable electrical
capacitive recording (EPO)
- E5.067 .Using static stores (e.g.,
storage tubes, semiconductor
memories, etc.) (EPO)
- E5.068 .On discs or drums (EPO)
- E5.069 ..Between a recording apparatus
and a television camera (EPO)
- E5.07 ..Between a recording apparatus
and a television receiver
(EPO)
- E5.071 ...The recorder being connected
to, or coupled with, the
antenna of the television
receiver (EPO)
- E5.072 ...The recording apparatus and
the television camera being
placed in the same enclosure
(EPO)

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