

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 600

DATE: JANUARY 2019

PROJECT MP0146

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>SCHEME:</b>		
Warnings Deleted:	H01H	53/14, 85/0445
	H01L	21/4885, 21/68
	H02M	1/32, 1/36, 1/38, 1/40, 1/42, 1/44, 7/5375
	H02N	2/00
	H02P	15/00
	H03B	5/12
	H03D	7/1425
	H03F	1/308, 1/309, 1/3235, 1/3247, 1/3252, 1/345, 1/526, 3/005, 3/211, 3/601, 3/602, 3/604, 3/605, 3/607, 3/608
	H03H	7/17, 7/425, 7/427
	H03K	3/35, 3/356104, 12/00, 17/731, 19/0005, 19/00369, 19/017518, 19/017554, 19/01812, 19/0188521, 19/018535, 25/04
	H03L	7/0998
	H04B	1/0003, 1/59, 1/692, 1/7163, 1/717, 1/72, 3/03, 7/0413, 10/116, 10/70, 10/90
	H04M	1/0202, 7/06, 7/12, 7/14, 2242/22
	H04N	3/14, 5/7824, 5/7828, 5/89, 5/903
	H04R	25/43, 25/608, 25/656, 25/658, 25/75
	H04W	80/02, 80/04, 80/045
Warnings Modified:	H01L	24/43

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

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

**1. CLASSIFICATION SCHEME CHANGES**

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

**2. DEFINITIONS**

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

CPC NOTICE OF CHANGES 600

DATE: JANUARY 2019

PROJECT MP0146

3.  REVISION CONCORDANCE LIST (RCL)
4.  CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
5.  CHANGES TO THE CROSS-REFERENCE LIST (CRL)

CPC NOTICE OF CHANGES 600

DATE: JANUARY 2019

PROJECT MP0146

1. CLASSIFICATION SCHEME CHANGES

B. New, Modified or Deleted Warning(s)

**SUBCLASS H01H - ELECTRIC SWITCHES; RELAYS; SELECTORS; EMERGENCY PROTECTIVE DEVICES** (contact cables H01B 7/10; overvoltage protection resistors, resistive arresters H01C 7/12, H01C 8/04; electrolytic self-interrupters H01G 9/18; switching devices of the waveguide type H01P; devices for interrupted current collection H01R 39/00; overvoltage arresters using spark gaps H01T 4/00; emergency protective circuit arrangements H02H; switching by electronic means without contact-making H03K 17/00)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
D	H01H53/14	Not complete, see also H01H9/00	
D	H01H85/0445	Not complete, see also H01H85/044	

**SUBCLASS H01L - SEMICONDUCTOR DEVICES; ELECTRIC SOLID STATE DEVICES NOT OTHERWISE PROVIDED FOR** (use of semiconductor devices for measuring G01; resistors in general H01C; magnets, inductors {in general} , transformers H01F; capacitors in general H01G; electrolytic devices H01G 9/00; batteries, accumulators H01M; waveguides, resonators or lines of the waveguide type H01P; line connectors, current collectors H01R; stimulated emission devices H01S; electromechanical resonators H03H; loudspeakers, microphones, gramophone pick-ups or like acoustic electromechanical transducers H04R; electric light sources in general H05B; printed circuits, hybrid circuits, casings or constructional details of electric apparatus, manufacture of assemblages of electrical components H05K; use of semiconductor devices in circuits having a particular application, see the subclass for the application)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
D	H01L21/4885	The documents of this group and subgroups dealing with methods for connecting semiconductor or other solid state bodies are being continuously reclassified to H01L24/43	
D	H01L21/68	This group is in reorganisation. See provisionally also group H01L21/6835	
M	H01L24/43	Group H01L 24/43 is incomplete pending reclassification of documents from groups H01L 21/4885 and H01L 24/42, H01L 24/85. Groups H01L 24/43 and H01L 21/4885, H01L 24/42, H01L 24/85 should be considered in order to perform a complete search.	Group H01L 24/43 is incomplete pending reclassification of documents from groups H01L 24/42 and H01L24/85. Groups H01L24/43, H01L24/42, and H01L24/85 should be considered in order to perform a complete search.

CPC NOTICE OF CHANGES 600

DATE: JANUARY 2019

PROJECT MP0146

**SUBCLASS H02M - APPARATUS FOR CONVERSION BETWEEN AC AND AC, BETWEEN AC AND DC, OR BETWEEN DC AND DC, AND FOR USE WITH MAINS OR SIMILAR POWER SUPPLY SYSTEMS; CONVERSION OF DC OR AC INPUT POWER INTO SURGE OUTPUT POWER; CONTROL OR REGULATION THEREOF** (systems for regulating electric or magnetic variables in general, e.g. using transformers, reactors or choke coils, combination of such systems with static converters G05F; {digital function or clock generators} for digital computers G06F 1/00, {G06F 1/025, G06F 1/04}; transformers H01F; connection or control of one converter with regard to conjoint operation with a similar or other source of supply H02J; dynamo-electric converters H02K 47/00; controlling transformers, reactors or choke coils, control or regulation of electric motors, generators or dynamo-electric converters H02P; pulse generators H03K; {static converters specially adapted for igniting or operating discharge lamps H05B 41/28})

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
D	H02M1/32	Group H02M1/32 and its subgroup are not complete, see provisionally also H02M1/32, H02M3/00 and subgroups, H02M7/00 and subgroups	
D	H02M1/36	Group H02M1/36 is not complete, see provisionally also H02M3/00 and subgroups, H02M7/00 and subgroups	
D	H02M1/38	Group H02M1/38 is not complete, see provisionally also H02M3/337 and subgroups, H02M7/538 and subgroups	
D	H02M1/40	Group H02M1/40 is not complete, see provisionally also H02M3/335	
D	H02M1/42	Group H02M1/42 is not complete, see provisionally also H02M1/32 and subgroups	
D	H02M1/44	Group H02M1/44 is not complete, see provisionally also H02M7/00 and subgroups	
D	H02M7/5375	Incomplete, see also H02M1/36	

**SUBCLASS H02N - ELECTRIC MACHINES NOT OTHERWISE PROVIDED FOR**

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
D	H02N2/00	This group is not complete pending reorganisation; see provisionally also H01L41/00	

CPC NOTICE OF CHANGES 600

DATE: JANUARY 2019

PROJECT MP0146

**SUBCLASS H02P - CONTROL OR REGULATION OF ELECTRIC MOTORS, ELECTRIC GENERATORS OR DYNAMO-ELECTRIC CONVERTERS; CONTROLLING TRANSFORMERS, REACTORS OR CHOKE COILS**

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
D	H02P15/00	Not complete, see also H02K49/00 and H02P29/0022	

**SUBCLASS H03B - GENERATION OF OSCILLATIONS, DIRECTLY OR BY FREQUENCY-CHANGING, BY CIRCUITS EMPLOYING ACTIVE ELEMENTS WHICH OPERATE IN A NONSWITCHING MANNER; GENERATION OF NOISE BY SUCH CIRCUITS** (measuring, testing G01R; generators adapted for electrophonic musical instruments G10H; Speech synthesis G10L; masers, lasers H01S; dynamo-electric machines H02K; power inverter circuits H02M; by using pulse techniques H03K; automatic control of generators H03L; starting, synchronization or stabilisation of generators where the type of generator is irrelevant or unspecified H03L; generation of oscillations in plasma H05H)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
D	H03B5/12	Subgroups H03B5/1203 - H03B5/1296 are incomplete pending reclassification; see also the other subgroups of H03B5/12	

**SUBCLASS H03D - DEMODULATION OR TRANSFERENCE OF MODULATION FROM ONE CARRIER TO ANOTHER** (masers, lasers H01S; circuits capable of acting both as modulator and demodulator H03C; details applicable to both modulators and frequency-changers H03C; demodulating pulses H03K 9/00; transforming types of pulse modulation H03K 11/00; coding, decoding or code conversion, in general H03M; repeater stations H04B 7/14; demodulators adapted for ac systems of digital information transmission H04L 27/00; synchronous demodulators adapted for colour television H04N 9/66)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
D	H03D7/1425	Subgroups H03D7/1433 - H03D7/1491 are incomplete pending reclassification; see also this group and its other subgroups	

CPC NOTICE OF CHANGES 600

DATE: JANUARY 2019

PROJECT MP0146

**SUBCLASS H03F - AMPLIFIERS** (measuring, testing G01R; optical parametric amplifiers G02F; circuit arrangement with secondary emission tubes H01J 43/30; masers, lasers H01S; control of amplification H03G; coupling arrangements independent of the nature of the amplifiers, voltage dividers H03H; amplifiers capable only of dealing with pulses H03K; repeater circuits in transmission lines H04B 3/36, H04B 3/58; application of speech amplifiers in telephonic communication H04M 1/60, H04M 3/40)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
D	H03F1/308	Not complete, see also H03F1/301	
D	H03F1/309	Not complete, see also H03F1/306	
D	H03F1/3235	Not complete, see also H03F1/3229	
D	H03F1/3247	Not complete, see also H03F1/3241 for non patent literature	
D	H03F1/3252	Not complete, see also H03F1/3241 for non patent literature	
D	H03F1/345	Not complete, see also H03F1/34	
D	H03F1/526	Not complete, see also H03F1/523	
D	H03F3/005	Not complete, see also H03F1/02, H03F3/70, H03F3/72	
D	H03F3/211	Not complete, see also H03F3/21, H03F3/68	
D	H03F3/601	Not complete, see also H03F3/16	
D	H03F3/602	Not complete, see also H03F3/68	
D	H03F3/604	Not complete, see also H03F3/16, H03F3/68	
D	H03F3/605	Not complete, see also H03F1/18	
D	H03F3/607	Not complete, see also H03F1/18	
D	H03F3/608	Not complete, see also H03F3/46	

**SUBCLASS H03H - IMPEDANCE NETWORKS, e.g. RESONANT CIRCUITS; RESONATORS** (measuring, testing G01R; arrangements for producing a reverberation or echo sound G10K 15/08; impedance networks or resonators consisting of distributed impedances, e.g. of the waveguide type, H01P; control of amplification, e.g. bandwidth control of amplifiers, H03G; tuning resonant circuits, e.g. tuning coupled resonant circuits, H03J; networks for modifying the frequency characteristics of communication systems H04B)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
D	H03H7/17	not complete, pending reorganisation, see provisionally also H03H7/0107, H03H7/0123 - H03H7/07, H03H7/09 - H03H7/13 and H03H7/42	

## CPC NOTICE OF CHANGES 600

DATE: JANUARY 2019

PROJECT MP0146

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
D	H03H7/425	not complete, pending reorganisation, see provisionally also H03H1/00 - H03H1/0007, H03H7/0107, H03H7/0123 - H03H7/07, H03H7/09 - H03H7/13, H03H7/42 and H03H7/422	
D	H03H7/427	not complete, pending reorganisation, see provisionally also H03H1/00 - H03H1/0007, H03H7/0107, H03H7/0123 - H03H7/07, H03H7/09 - H03H7/13, H03H7/42 and H03H7/422	

**SUBCLASS H03K - PULSE TECHNIQUE** (measuring pulse characteristics G01R; mechanical counters having an electrical input G06M; information storage devices in general G11; sample-and-hold arrangements in electric analogue stores G11C 27/02; construction of switches involving contact making and breaking for generation of pulses, e.g. by using a moving magnet, H01H; static conversion of electric power H02M; generation of oscillations by circuits employing active elements which operate in a non-switching manner H03B; modulating sinusoidal oscillations with pulses H03C, H04L; discriminator circuits involving pulse counting H03D; automatic control of generators H03L; starting, synchronisation or stabilisation of generators where the type of generator is irrelevant or unspecified H03L; coding, decoding or code conversion in general H03M)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
D	H03K3/35	Not complete; for four layer diodes see also H03K3/313	
D	H03K3/356104	Subgroups of H03K3/356104 are not complete.	
D	H03K12/00	Not complete, see also H03K5/08, H03K5/12	
D	H03K17/731	Not complete, see also H03K17/73	
D	H03K19/0005	Not complete, see also H03K19/017545	
D	H03K19/00369	Not complete, see also H03K19/00	
D	H03K19/017518	Not complete, see also H03K19/018, H03K19/0185	
D	H03K19/017554	Not complete, see also H03K19/01806, H03K19/018507	
D	H03K19/01812	Not complete, see also H03K19/01806	
D	H03K19/018521	Not complete, see also H03K19/018507	
D	H03K19/018535	Not complete, see also H03K19/018507	
D	H03K25/04	Not complete, see also H03K25/02	

## CPC NOTICE OF CHANGES 600

DATE: JANUARY 2019

PROJECT MP0146

**SUBCLASS H03L - AUTOMATIC CONTROL, STARTING, SYNCHRONISATION, OR STABILISATION OF GENERATORS OF ELECTRONIC OSCILLATIONS OR PULSES** (of dynamoelectric generators H02P)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
D	H03L7/0998	Not complete, see also H03L7/0995	

**SUBCLASS H04B - TRANSMISSION** (transmission systems for measured values, control or similar signals G08C; coding, decoding, code conversion, in general H03M; broadcast communication H04H; multiplex systems H04J; secret communication H04K; transmission of digital information H04L)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
D	H04B1/0003	Groups H04B1/0003 and subgroups are not complete pending a reorganisation. See also group H04B1/406	
D	H04B1/59	contains no documents, see provisionally G01S13/74	
D	H04B1/692	Not complete pending the completion of reclassification; see also group H04B1/69	
D	H04B1/7163	As from 01/04/2011 documents relating to pulse-related aspects are classified in H04B1/717 and the backlog for such documents is continuously being reclassified from H04B1/7163	
D	H04B1/717	Not complete pending the completion of reclassification; see also group H04B1/7163	
D	H04B1/72	contains no documents, see H03H, e.g. H03H7/38 , H03H11/28	
D	H04B3/03	not used, see H04B1/52 , H04B1/58	
D	H04B7/0413	Group H04B7/0413 and subgroups are not complete pending reorganisation. See also H04B7/005B4D2	
D	H04B10/116	This group is not complete pending reclassification; see also H04B10/114 and its other subgroups	
D	H04B10/70	This group is not complete pending reclassification; see also H04B10/30	
D	H04B10/90	This group is not complete pending reclassification; see also H04B10/30	



## CPC NOTICE OF CHANGES 600

DATE: JANUARY 2019

PROJECT MP0146

**SUBCLASS H04M - TELEPHONIC COMMUNICATION** (counting mechanisms G06M; circuits for controlling other apparatus via a telephone cable and not involving telephone switching apparatus G08; reels or other take-up devices for cords H02G 11/00; multiplex transmission between switching centres H04J; selecting arrangements H04Q; loudspeakers, microphones, gramophone pick-ups or like electromechanical transducers H04R)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
D	H04M1/0202	Groups H04M1/0249 to H04M1/0285 are not complete pending a reorganisation. See also group H04M1/0202	
D	H04M7/06	Not complete, see also other subgroups of H04M7/00	
D	H04M7/12	Not complete, see also other subgroups of H04M7/00	
D	H04M7/14	Not complete, see also other subgroups of H04M7/00	
D	H04M2242/22	This group is no longer used for classification of new documents as from November 20, 2009. The backlog of this group is being continuously reclassified to H04M3/42034 and H04M3/42085	

**SUBCLASS H04N - PICTORIAL COMMUNICATION, e.g. TELEVISION** (measuring, testing G01; systems for autographic writing, e.g. writing telegraphy, which involve following an outline {G08C 21/00}; information storage based on relative movement between record carrier and transducer G11B; coding, decoding or code conversion, in general H03M; broadcast distribution or the recording of use made thereof H04H)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
D	H04N3/14	Constructional details 97DP12C2B	
D	H04N5/7824	Not complete, see also H04N5/782	
D	H04N5/7828	Not complete, see also H04N5/782	
D	H04N5/89	Not complete, see also H04N5/76 , H04N5/7605 , H04N5/84 , H04N5/85	
D	H04N5/903	Not complete, see also H04N5/7605	

CPC NOTICE OF CHANGES 600

DATE: JANUARY 2019

PROJECT MP0146

**SUBCLASS H04R - LOUDSPEAKERS, MICROPHONES, GRAMOPHONE PICK-UPS OR LIKE ACOUSTIC ELECTROMECHANICAL TRANSDUCERS; DEAF-AID SETS; PUBLIC ADDRESS SYSTEMS** (generating mechanical vibrations in general B06B; transducers for measuring particular variables G01; transducers in clocks G04; producing sounds with frequency not determined by supply frequency G10K; transducers in recording or reproducing heads G11B; transducers in motors H02)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
D	H04R25/43	Not complete pending a reorganization, see also H04R25/00	
D	H04R25/608	Not complete pending a reorganization, see also H04R25/60 or its other subgroups	
D	H04R25/656	Not complete pending a reorganization, see also H04R25/65 B (H04R25/652)	
D	H04R25/658	Not complete pending a reorganization, see also H04R25/65 or its other subgroups	
D	H04R25/75	Not complete pending a reorganization, see also H04R25/00	

**SUBCLASS H04W - WIRELESS COMMUNICATIONS NETWORKS** (radio transmission systems H04B 7/00; transmission systems using electromagnetic waves other than radio waves, e.g. light, infrared H04B 10/00; communication systems using wireless extensions, i.e. wireless links without selective communication, e.g. cordless telephones H04M 1/72; broadcast communication H04H)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
D	H04W80/02	This group is used only for indicating additional information when it is of interest for search	
D	H04W80/04	This group is used only for indicating additional information when it is of interest for search	
D	H04W80/045	This group is used only for indicating additional information when it is of interest for search	

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

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