EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1692

DATE: JANUARY 1, 2025

PROJECT MP12364

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

Action	**Subclass**	**Group(s)**
SCHEME:		
Titles Changed:	H03H	SUBCLASS
	H03H	1/02
	H03H	7/00, 7/12, 7/13, 7/46
	H03H	9/00, 9/05, 9/13, 9/54
	H03H	11/14, 11/26, 11/34, 11/44
DEFINITIONS:		
Definitions Modified:	H03H	SUBCLASS
	H03H	1/00, 3/00, 5/00, 7/00, 9/00, 11/00
Definitions New:	H03H	1/02, 7/12, 7/46, 11/26, 11/34, 11/44

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

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

1. CLASSIFICATION SCHEME CHANGES
   - ☒ A. New, Modified or Deleted Group(s)
   - ☐ B. New, Modified or Deleted Warning(s)
   - ☐ C. New, Modified or Deleted Note(s)
   - ☐ D. New, Modified or Deleted Guidance Heading(s)
2. DEFINITIONS
   - ☒ A. New or Modified Definitions (Full definition template)
   - ☐ B. Modified or Deleted Definitions (Definitions Quick Fix)
3. ☐ REVISION CONCORDANCE LIST (RCL)
4. ☐ CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
5. ☐ CHANGES TO THE CROSS-REFERENCE LIST (CRL)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS H03H - IMPEDANCE NETWORKS, e. g. RESONANT CIRCUITS; RESONATORS

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	H03H	Subclass	IMPEDANCE NETWORKS, e.g. RESONANT CIRCUITS; RESONATORS (waveguides, resonators, lines or other devices of the waveguide type H01P)	
M	H03H1/02	1	RC networks, e.g. filters	
M	H03H7/00	0	Multiple-port networks comprising only passive electrical elements as network components	
M	H03H7/12	2	Bandpass or bandstop filters with adjustable bandwidth and fixed centre frequency (H03H7/09 takes precedence)	
M	H03H7/13	2	using electro-optical elements	
M	H03H7/46	1	Networks for connecting several sources or loads, working on different frequencies or frequency bands, to a common load or source	
M	H03H9/00	0	Networks comprising electromechanical or electro-acoustic elements; Electromechanical resonators (electro-acoustic transducers such as loudspeakers, microphones or gramophone pick-ups H04R; piezoelectric, electrostrictive or magnetostrictive devices with mechanical input or output, e.g. actuators or sensors, H10N30/00, H10N 35/00)	
M	H03H9/05	2	Holders or supports	
M	H03H9/13	3	for networks consisting of piezoelectric or electrostrictive materials (for networks using surface acoustic waves H03H9/145)	
M	H03H9/54	2	comprising resonators of piezoelectric or electrostrictive material (comprising resonators using surface acoustic waves H03H 9/64)	
M	H03H11/14	3	using electro-optical devices	
M	H03H11/26	2	Time-delay networks	
M	H03H11/34	2	Networks for connecting several sources or loads working on different frequencies or frequency bands, to a common load or source	

M	H03H11/44	3	Negative impedance converters (H03H 11/42 takes precedence)	

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

NOTES:

- **No {curly brackets} are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- U groups: it is obligatory to display the required "anchor" symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups). Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types.

- "Transferred to" column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.

2. A. DEFINITIONS (new)

H03H 1/02

References

Informative references

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

Structural combinations of capacitors with other electric elements	H01G

H03H 7/12

References

Limiting references

This place does not cover:

Filters comprising mutual inductance	H03H 7/09

Informative references

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

Automatic control of bandwidth in amplifiers	H03G 5/16

H03H 7/46

Application-oriented references

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

For use in multiplex transmission systems	H04J1/00

H03H 11/26

References

Informative references

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

Analogue shift registers	G11C 27/04

H03H 11/34

References

Application-oriented references

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

For use in multiplex transmission systems	H04J 1/00

H03H 11/44

References

Limiting references

This place does not cover:

Gyrators	H03H 11/42

Application-oriented references

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

Negative impedance converters used in frequency-selective networks	H03H 11/10

2. A. DEFINITIONS (modified)

H03H

References

Replace: The existing Limiting references table with the following updated table.

Limiting references

This place does not cover:

Waveguides, resonators, lines or other devices of the waveguide type	H01P

Insert: The following new Informative references section.

Informative references

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

Arrangements for producing a reverberation or echo sound	G10K 15/08
Measuring or testing	G01
Resistors	H01C
Magnets, inductances, transformers	H01F
Capacitors, rectifiers, detectors, switching devices or light-sensitive devices of the electrolytic type	H01G
Impedance matching in integrated circuits	H01L
Active filters for AC distribution networks (mostly using chopping of the power wave with power semiconductors), FACTS	H02J, H02M
Impedance matching for amplifiers	H03F
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
Arrangements for coupling to transmission lines	H04L 25/0264

Delete: The entire Special rules section.

H03H 1/00

References

Replace: The existing Limiting references table with the following updated table.

Limiting references

This place does not cover:

Constructional details of electromechanical transducers	H03H 9/00

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

Informative references

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

Multilayered microwave filters including exclusively distributed elements like microstrip or transmission lines	H01P

Delete: The entire Special rules section.

H03H 3/00

References

Delete: The entire Limiting references section.

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

Informative references

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

Manufacture of transducers not involving resonance (e.g. ink dispatchers for printers)	H10N 30/00

H03H5/00

References

Delete: The entire Limiting references section.

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

Informative references

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

Resistors	H01C
Magnets; Inductances; Transformers	H01F
Capacitors	H01G
Oscillators	H03B 5/00
Simulation of reactances (e.g. active inductors, capacitor multipliers) with active elements	H03H 11/48 and subgroups

H03H 7/00

References

Delete: The entire Limiting references.

Insert: The following new Application-oriented references section.

Application-oriented references

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

Receiver input circuits, e.g. for coupling to an antenna or a transmission line	H04B 1/18
Networks simulating a length of communication cable	H04B 3/40

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

Informative references

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

Simple balanced/unbalanced networks consisting only of coupled inductances (e.g. transformers)	H01F
Circulators, isolators with passive distributed elements	H01P 1/36,H01P 1/38
Balanced/unbalanced networks having lumped and distributed passive elements	H01P 5/10
Hybrid couplers with passive distributed elements	H01P 5/16
Passive filters for power distribution networks	H02J, H02M
Attenuators for telecom transmission lines (phone, etc.)	H03B 5/00
Filters in audio frequency spectrum or in the sense of gain controlling	H03G
Attenuators in audio frequency spectrum or in the sense of gain controlling	H03G 1/0058
RF interference and EMI filters	H03H 1/00
Hybrid couplers with passive lumped elements	H03H 7/48
Circulators, isolators with passive lumped elements	H03H 7/52

Receiver input or transceiver output circuits for automatic impedance matching in telecommunications	H04B 1/0458
Arrangements for coupling to transmission lines	H04L 25/0264
CATV (power) splitters	H04N
Bandpass or bandstop filters for TV	H04N 5/60
In PCB embedded R, L, C elements for filtering	H05K
Manufacture/packaging of multilayer RLC filters	H05K

Delete: The entire Special rules section.

H03H 9/00

References

Replace: The existing Limiting references table with the following updated table.

Limiting references

This place does not cover:

Piezoelectric, electrostrictive magnetostrictive devices with mechanical input or output, e.g. actuators or sensors	H10N 30/00, H10N 35/00
Electro-acoustic transducers such as loudspeakers, microphones or gramophone pick-ups	H04R

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

Informative references

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

MEMS transducers not involving resonance	B81B - B81C
Mirror of BAW devices - manufacture	C23C
SAW/MEMS/BAW devices for sensing applications (when no particular emphasis is made for the constructional details or filtering, and focus is on sensing)	G01N 29/00
RF ID tags	G01S13/755 , G06K 7/10009, H03H 9/42

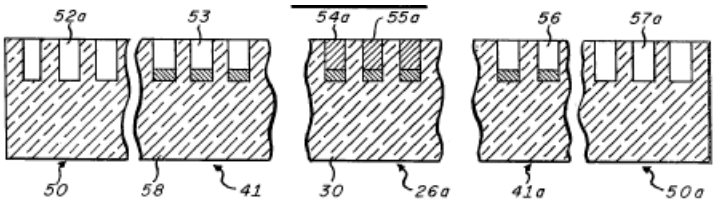
SAW tuning	H03H 9/02968, H03H 9/6403
Constructional details involving semiconductor parts (e.g. layers, package, etc.)	H01L

Delete: The following from the Special rules section.

US3886503

H03H 9/02653

The grooves could be empty, partially or totally filled with material, and they could be between (but not inside) IDTs or side-framing them. When they are inside the IDTs, H03H9/02S6G1 should be allocated.



H03H 11/00

References

Delete: The entire Limiting references section.

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

Informative references

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

Integrators, per se	G06F 7/00
Audio equalizers	H03G 5/00
Current converters CCII+, nullor, nulator, rotator	H03H 11/02
Log-domain filters	H03H 11/0405
Controller resistors	H03H 11/24 and subgroups

Circulators, isolators with active elements	H03H11/38
Simulation of reactances with applications in amplifiers	H03F1/56 and subgroups
Simulating reactances in tuning context	H03J3/18 and subgroups
Time delay networks, esp. built with boolean ports or digital registers	H03K5/13 and subgroups
Impedance matching having switching elements or registers	H03K 19/017545, H03K 19/01825 and H03K 19/018557 and subgroups
Impedance matching for high speed lines	H04L 25/0278

Delete: The entire Special rules section.

Replace: The existing Synonyms and Keywords section with the following updated section.

Synonyms and Keywords

In patent documents, the following words/expressions are often used with the meaning indicated:

active inductor	inductor simulation/emulation/synthesis; inductorless