

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1555

DATE: JANUARY 1, 2024

PROJECT MP11843

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Titles Changed:	H03G	SUBCLASS
	H03G	1/00, 1/02
	H03G	3/00, 3/20
	H03G	5/005, 5/02
	H03G	7/007
	H03G	9/02, 9/26
	H03G	11/002, 11/008, 11/06
Notes Modified:	H03G	SUBCLASS
DEFINITIONS:		
Definitions New:	H03G	1/02, 9/26
Definitions Modified:	H03G	SUBCLASS
	H03G	1/00, 3/00, 3/20, 5/005, 5/02, 9/02, 11/002, 11/008

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 H03G - CONTROL OF AMPLIFICATION

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	H03G	SUBCLASS	CONTROL OF AMPLIFICATION	
M	H03G 1/00	0	Details of arrangements for controlling amplification	
M	H03G 1/02	1	Remote control of amplification, tone or bandwidth (combined with remote tuning or selection of resonant circuits H03J)	
M	H03G 3/00	0	Gain control in amplifiers or frequency changers	
M	H03G 3/20	1	Automatic control ({H03G 3/005 takes precedence; } combined with volume compression or expansion H03G 7/00)	
M	H03G 5/005	1	{of digital signals}	
M	H03G 5/02	1	Manually-operated control	
M	H03G 7/007	1	{of digital or coded signals}	
M	H03G 9/02	1	in untuned amplifiers	
M	H03G 9/26	1	in untuned amplifying stages as well as in frequency-selective amplifying stages	
M	H03G 11/002	1	{without controlling loop (H03G 11/004, H03G 11/006, H03G 11/008, H03G 11/02, H03G 11/04, H03G 11/06, H03G 11/08 take precedence)}	
M	H03G 11/008	1	{of digital or coded signals}	
M	H03G 11/06	1	Limiters of angle-modulated signals; such limiters combined with discriminators (discriminators having an inherent limiting action H03D 3/00)	

*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; 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.

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- **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.
- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD> , <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“Transferred to”) symbol, however it is required to specify “<no transfer>” in the “Transferred to” column for such cases.
- For finalisation projects, the deleted “F” symbols should have <no transfer> in the “Transferred to” column.
- For more details about the types of scheme change, see CPC Guide.

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C. New, Modified or Deleted Note(s)

SUBCLASS H03G - CONTROL OF AMPLIFICATION

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	H03G	1. This subclass covers: <ul style="list-style-type: none"> • control of gain of amplifiers or frequency-changers, • control of frequency range of amplifiers, • limiting a mplitude or rate of change of amplitude 2. Attention is drawn to the Note following the title of subclass H03F.	1. This subclass covers: <ul style="list-style-type: none"> • control of gain of amplifiers or frequency-changers; • control of frequency range of amplifiers; • limiting a mplitude or rate of change of amplitude. 2. Attention is drawn to the Note following the title of subclass H03F.

*N = new note, M = modified note, D = deleted note

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

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2. A. DEFINITIONS (new)

Insert: The following new Definitions.

H03G 1/02

References

Limiting references

This place does not cover:

Remote control combined with remote tuning or selection of resonant circuits	H03J
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Informative references

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

Remote control in general	G05, G08
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H03G 9/26

References

Informative references

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

Gain control in unturned amplifying stages as well as in frequency-selective amplifying stages	H03G 3/00
Tone control or bandwidth control	H03G 5/00
Volume compression or expansion in amplifiers	H03G 7/00

2. A. DEFINITIONS (modified)

H03G

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section.

Informative references

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

Amplifiers	H03F
Impedance networks, e.g. attenuators	H03H
Control of transmission in lines	H04B 3/04

H03G 1/00

Insert: The following new Special rules of classification section.

Special rules of classification

For arrangements combined with means for generating a controlling signal, or these means per se, see other main groups of H03G.

H03G 3/00

Definition statement

Replace: The existing Definition statement text with the following updated text.

The gain of amplifiers or frequency changers is controlled without distortion of the input signal. The main concept of controlling is the feedback loop from the output of the amplifier to a controlling element. Other gain control concepts are possible.

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ReferencesDelete: The entire Limiting references section.**Informative references***Attention is drawn to the following places, which may be of interest for search:*Insert: The following seven new references in the Informative references table.

Gated amplifiers	H03F 3/72
Modifications of amplifiers to reduce non-linear distortion	H03F 1/32
Details of transmission systems for providing a predistortion of the signal in the transmitter and corresponding correction in the receiver	H04B 1/62, H04B 1/64
Arrangements for compensation undesirable properties of the transmission path between the modulator and demodulator using predistortion	H04L 27/367, H04L 27/368
Gain control peculiar to television receivers	H04N
Details of television systems, automatic gain control in receiver circuitry of TVs	H04N 5/52
Transmission Power control, power saving or power classes	H04W 52/00

H03G 3/20**Definition statement**Replace: The existing Definition statement text with the following updated text.

The gain control in amplifiers when the control is performed with an automatic system. The main automatic concept for controlling is the feedback loop from the output of the amplifier to a controlling element.

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References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Control by a pilot signal	H03G 3/005
Combined with volume compression or expansion	H03G 7/00

Insert: The following new Special rules of classification section.

Special rules of classification

The subject matter should be classified in the subgroups H03G 3/22–H03G 3/348 as appropriate.

H03G 5/005

Definition statement

Delete: The last line of the Definition statement, so that the entire updated Definition statement reads as follows.

Modern audio systems are mostly digital systems. This subgroup mainly includes the digital tone control systems.

References

Insert: The following new Informative references section.

Informative references

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

Tone control or bandwidth control in amplifiers	H03G 5/00
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Insert: The following new Special rules of classification section.

Special rules of classification

If the system is a digital audio system, it should be additionally classified into H03G 5/16, H03G 5/165 or H03G 5/18.

H03G 5/02

Definition statement

Delete: The first two sentences of the Definition statement, so that the entire updated Definition statement reads as follows.

This subgroup covers the manual operation of the tone control.

References

Insert: The following new Informative references section.

Informative references

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

Variable bandpass or bandstop filters	H03H 7/12
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H03G 9/02

References

Insert: The following new Informative references section.

Informative references

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

Combined tone controls for low and high frequencies	H03G 5/00
Volume compression or expansion in amplifiers	H03G 7/00

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H03G 11/002

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Using discharge tubes	H03G 11/004
In circuits having distributed constants	H03G 11/006
Of digital or coded signals	H03G 11/008
By means of diodes	H03G 11/02
Limiting level dependent on strength of signal	H03G 11/04
Limiters of angle-modulated signals	H03G 11/06
Limiting rate of change of amplitude	H03G 11/08

H03G 11/008

References

Insert: The following new Informative references section.

Informative references

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

By means of diodes	H03G 11/02
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