

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1041

DATE: FEBRUARY 1, 2021

PROJECT MP0494

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:	H02M	SUBCLASS
	H02M	1/32
	H02M	3/07, 3/42
	H02M	5/25, 5/275
	H02M	7/36, 7/62, 7/75, 7/79, 7/95
DEFINITIONS:		
Definitions Modified:	H02M	SUBCLASS
	H02M	5/25, 5/275
	H02M	7/75, 7/79
Definitions Deleted:	H02M	5/04

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)

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

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	H02M	SUBCLASS	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 (transformers H01F; dynamo-electric converters H02K 47/00; controlling transformers, reactors or choke coils, control or regulation of electric motors, generators or dynamo-electric converters H02P)	
M	H02M 1/32	1	Means for protecting converters other than automatic disconnection	
M	H02M 3/07	4	using capacitors charged and discharged alternately by semiconductor devices with control electrode {, e.g. charge pumps }	
M	H02M 3/42	4	with electromagnetically-operated vibrating contacts, e.g. chopper	
M	H02M 5/25	4	using devices of a thyatron or thyristor type requiring extinguishing means	
M	H02M 5/275	4	using devices of a triode or transistor type requiring continuous application of a control signal	
M	H02M 7/36	4	with electromagnetically-operated vibrating contacts, e.g. chopper	
M	H02M 7/62	4	with electromagnetically-operated vibrating contacts, e.g. chopper	
M	H02M 7/75	4	using devices of a thyatron or thyristor type requiring extinguishing means	
M	H02M 7/79	4	using devices of a triode or transistor type requiring continuous application of a control signal	
M	H02M 7/95	4	with electromagnetically-operated vibrating contacts, e.g. chopper	

*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

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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.
- 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.

2. A. DEFINITIONS (modified)

H02M

Definition statement

This place covers:

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

Only circuits or apparatus for the conversion of ac or dc input power into ac or dc output power, or the conversion of ac or dc input power into surge output power, or arrangements for control or regulation of such circuits or apparatus.

Relationships with other classification places

Replace: The existing first paragraph of the Relationships section with the following updated paragraph.

The individual electro-technical devices employed when converting electric power are covered by the relevant subclasses, e.g. inductors, transformers H01F, capacitors, electrolytic rectifiers H01G, mercury-vapour rectifying or other discharge tubes H01J, semiconductor devices H01L, impedance networks or resonant circuits not primarily concerned with the transfer of electric power H03H.

References

Limiting references

This place does not cover:

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

Transformers	H01F
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Dynamo-electric converters	H02K 47/00
Controlling transformers, reactors or choke coils, control or regulation of electric motors, generators or dynamo-electric converters	H02P

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:

Conversion of current or voltage specially adapted for use in electronic time-pieces with no moving parts	G04G 19/02
For digital computers	G06F 1/00
Static converters specially adapted for igniting or operating discharge lamps	H05B 41/28

Informative references

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

Insert: The following three new references in the Informative references section.

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
Connection or control of one converter with regard to conjoint operation with a similar or other source of supply	H02J
Pulse generators	H03K

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Delete: The following row from the Glossary of terms table.

"Conversion", in respect of an electric variable, e.g. voltage or current	change of one or more of the parameters of the variable, e.g. amplitude, frequency, phase, polarity
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Insert: The following new row in the Glossary of terms table.

Conversion	In respect of an electric variable, e.g. voltage or current, conversion means the change of one or more of the parameters of the variable, e.g. amplitude, frequency, phase, polarity.
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H02M 5/25

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:

Two stages of AC-AC conversion, e.g. having a high frequency intermediate link	H02M5/225
Conversion of frequency	H02M5/27

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H02M 5/275

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:

Two stages of AC-AC conversion, e.g. having a high frequency intermediate link	H02M5/225
Conversion of frequency	H02M5/297

H02M 7/75

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:

Devices of a thyatron or thyristor type arranged for operation in parallel	H02M7/77
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H02M 7/79

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:

Devices of a triode or transistor type arranged for operation in parallel	H02M7/81
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2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol;</u> <u>New text</u>
H02M 5/04			<u>DELETE</u> the entire Definition.

NOTES:

- The table above is used for corrections or modifications to existing definitions, e.g. delete an entire definition or part thereof; propose new wording or modify wording of a section, change the symbol the definition is associated with, change or delete a reference symbol, etc.
- Do not delete (F) symbol definitions.