

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 511

DATE: MAY 1, 2018

PROJECT MP0367

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
Title wording change:	F03D	1/00
	F03D	3/00
	F03D	5/00
	F03D	7/02
	F03D	7/06
New Definitions	F03D	7/06
	F03D	9/20
	F03D	9/30
	F03D	9/32
	F03D	13/20
	F03D	13/25
	F03D	13/40
	F03D	15/00
	F03D	15/20
	F03D	17/00
	F03D	80/10
	F03D	80/20
	F03D	80/30
	F03D	80/70
	F03D	80/80
Modified Definitions	F03D	SUBCLASS
	F03D	1/00
	F03D	3/00
	F03D	9/00
Scheme Notes to be modified:	F03D	SUBCLASS

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

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

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS F03D - WIND MOTORS

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) “CPC only” text should normally be enclosed in {curly brackets}**	Transferred to[#]
M	F03D 1/00	0	Wind motors with rotation axis substantially parallel to the air flow entering the rotor (controlling thereof F03D 7/02)	
M	F03D 3/00	0	Wind motors with rotation axis substantially perpendicular to the air flow entering the rotor (controlling thereof F03D 7/06)	
M	F03D 5/00	0	Other wind motors (controlling thereof F03D 7/00)	
M	F03D 7/02	1	the wind motors having rotation axis substantially parallel to the air flow entering the rotor	
M	F03D 7/06	1	the wind motors having rotation axis substantially perpendicular to the air flow entering the rotor	

*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; E= 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).
- For U groups, the minimum requirement is to include the U group located immediately prior to the N group or N group array, in order to show the N group hierarchy and improve the readability and understanding of the scheme. 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 except “D” which requires only a symbol.
- #“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>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.

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C. New, Modified or Deleted Note(s)

SUBCLASS F03D - WIND MOTORS

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	F03D	<p>In this subclass, the following words are used with the meanings indicated:</p> <ul style="list-style-type: none"> • "Wind motor" means a mechanism for converting the energy of natural wind into useful mechanical power, and the transmission of such power to its point of use; • "Rotor" means the wind-engaging parts of the wind motor and the rotary member carrying them; • "Rotations axis" means the axis of rotation of the rotor. 	<p>Replace the existing Old Note with the following three notes:</p> <ol style="list-style-type: none"> 1. This subclass <u>covers</u> wind motors, i.e. mechanisms for converting the energy of wind into useful mechanical power, and the transmission of such power to its point of use. 2. This subclass <u>does not cover</u> electrical power generation or distribution aspects of wind-power plants, which are covered by section H, e.g. H02J or H02P. 3. In this subclass, the following terms or expressions are used with the meanings indicated: <ul style="list-style-type: none"> • "rotor" means the wind-engaging parts of the wind motor and the rotary member carrying them; • "rotation axis" means the axis of rotation of the rotor.

*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.

F03D7/06

References

Informative references

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

Rotor construction, the wind engaging parts having a cyclic movement relative to the rotor during its rotation, the cyclic relative movement being coupled to the movement of rotation; Controlling same, e.g. according to wind direction or force	F03D 3/068
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F03D9/20

References

Limiting references

This place does not cover:

Combinations of wind motors with apparatus storing energy	F03D 9/10
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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:

Arrangements of propulsion units in vehicles in connection with power supply derived from wind power	B60K 16/00
Electric propulsion of vehicles using wind power	B60L 8/00
Driving auxiliaries on ships of other waterborne vessels using wind power	B63J 3/04
Propulsion of ships or other waterborne vessels by wind motors driving water-engaging propulsive elements	B63H 13/00

F03D9/30**References****Limiting references**

This place does not cover:

Arrangements for mounting or supporting wind motors	F03D 13/20
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Informative references

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

Anchoring arrangements for special vessels	B63B 21/50
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F03D9/32**Definition statement**

This place covers:

Wind motors specially adapted for installation on moving objects, e.g. vehicles, in which the movement of the object causes air flow through the rotor.

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F03D13/20**References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Foundations for poles, masts or chimneys	E02D 27/42
Towers; Masts, poles; Methods of erecting such structures	E04H 12/00

F03D13/25**References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Anchoring arrangements for special vessels	B63B 21/50
Vessels or like floating structures adapted for special purposes	B63B 35/00
Artificial islands mounted on piles or like supports	E02B 17/00

F03D13/40**References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Vehicles adapted to transport or carry special loads or objects	B60P 3/00
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F03D15/00

Definition statement

This place covers:

Transmission of mechanical power, i.e. mechanisms by which the wind-derived mechanical power is conveyed to its point of use

References

Informative references

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

Gearing	F16H
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F03D15/20

Glossary of terms

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

Direct-drive	Gearless transmission arrangement in which the rotor shaft is attached directly to the generator without intermediate gearing.
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F03D17/00

Definition statement

This place covers:

Monitoring or testing of wind motors, e.g. diagnostics.

References

Limiting references

This place does not cover:

Testing during commissioning of wind motors	F03D 13/30
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Glossary of terms

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

Monitoring or testing	Overseeing or analysing the operating conditions of the wind motor mechanism, typically to identify problematic conditions. This may involve reference to wind motor sensor signals indicating, e.g. wind speed and direction, pitch angle, vibration, rotary torque, blade load and strain.
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F03D80/10

References

Informative references

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

Traffic control systems for aircraft	G08G 5/00
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F03D80/20

Glossary of terms

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

Shadow flicker	Periodic flickering effect due to repetitive shadows cast by rotating wind turbine blades.
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F03D80/30

References

Informative references

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

Installations of lightning conductors; Fastening thereof to supporting structure	H02G 13/00
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F03D80/70

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References

Informative references

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

Lubricating of machines in general	F01M
Bearings	F16C

F03D80/80

Glossary of terms

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

Nacelle	The protective outer housing enclosing wind motor components such as the transmission, associated gearing and turbine.
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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; New text</u>
F03D	Informative references		<p><u>Insert</u> the following <u>three new</u> rows into the <i>Informative references</i> table:</p> <p>Propulsive devices of ships or other waterborne vessels directly acted on by wind, using the Magnus effect B63H 9/02</p> <p>Dynamo-electric machines H02K</p> <p>Structural association of electric generator with mechanical driving motor in dynamo-electric machines, e.g. turbine H02K 7/18</p>
F03D	Application-oriented references	Electric propulsion of vehicles using wind power B60L 8/00	<u>Delete</u> the entire <i>Application-oriented references</i> section and table.
F03D	Synonyms and Keywords	<p>In patent documents, the following words/expressions are often used as synonyms:</p> <ul style="list-style-type: none"> • "wind turbine", and "windmill" • "azimuth angle", and "yaw angle" • "rotor hub", "rotor cone" and "spinner" 	<p><u>Insert</u> the following preamble and two rows in the <i>Synonyms and Keywords</i> section <u>before</u> the existing text:</p> <p><i>In patent documents the following abbreviations are often used:</i></p> <p>In the first row, the first column contains: HAWT</p> <p>In the first row, the second column contains: Horizontal Axis Wind Turbine</p> <p>In the second row, the first column contains: VAWT</p> <p>In the second row, the second column contains: Vertical Axis Wind Turbine</p>
F03D1/00	Limiting references	F03D7/00	<u>Replace</u> symbol with: F03D 7/02
F03D3/00	Limiting references	F03D7/00	<u>Replace</u> symbol with: F03D 7/06
F03D9/00	Limiting references	none	<p><u>Insert</u> the following row into a <u>new</u> <i>Limiting references</i> section and table:</p> <p>Hybrid wind-photovoltaic energy systems for the generation of electric power H02S 10/12</p>

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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.