

CPC COOPERATIVE PATENT CLASSIFICATION

F MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING  
(NOTE omitted)

ENGINES OR PUMPS

F03 MACHINES OR ENGINES FOR LIQUIDS; WIND, SPRING, OR WEIGHT MOTORS;  
PRODUCING MECHANICAL POWER OR A REACTIVE PROPULSIVE THRUST,  
NOT OTHERWISE PROVIDED FOR

F03D WIND MOTORS

NOTES

- 1. This subclass covers 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 does not cover 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:
  - "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.

1/00	Wind motors with rotation axis substantially parallel to the air flow entering the rotor (controlling thereof F03D 7/02)	1/042	. . {Divergent outlets, e.g. diffusers or ejectors (F03D 1/044 takes precedence)}
	<b>WARNING</b>  Group F03D 1/00 is impacted by reclassification into groups F03D 1/101, F03D 1/125, F03D 1/141, F03D 1/165, F03D 1/181 and F03D 1/188.  All groups listed in this Warning should be considered in order to perform a complete search.		<b>WARNING</b>  Group F03D 1/042 is incomplete pending reclassification of documents from groups F03D 1/04 and F05B 2240/13.  Groups F03D 1/04, F05B 2240/13 and F03D 1/042 should be considered in order to perform a complete search.
1/02	. having a plurality of rotors	1/044	. . {Convergent divergent structures, e.g. venturis}
1/025	. . {coaxially arranged}		<b>WARNING</b>  Group F03D 1/044 is incomplete pending reclassification of documents from groups F03D 1/04, F05B 2240/133 and F05B 2250/5012.  All groups listed in this Warning should be considered in order to perform a complete search.
1/04	. having stationary wind-guiding means, e.g. with shrouds or channels (F03D 9/35 takes precedence)	1/046	. . {comprising additional flow modifying means, e.g. vanes or turbulators}
	<b>WARNING</b>  Group F03D 1/04 is impacted by reclassification into groups F03D 1/041, F03D 1/042, F03D 1/044, F03D 1/046, F03D 1/048, F03D 1/051 and F03D 1/053.  All groups listed in this Warning should be considered in order to perform a complete search.		<b>WARNING</b>  Group F03D 1/046 is incomplete pending reclassification of documents from groups F03D 1/04, F05B 2240/12, F05B 2240/121 and F05B 2240/122.  All groups listed in this Warning should be considered in order to perform a complete search.
1/041	. . {Convergent inlets, i.e. the inlet section is greater than the rotor section (F03D 1/044 takes precedence)}		
	<b>WARNING</b>  Group F03D 1/041 is incomplete pending reclassification of documents from groups F03D 1/04, F05B 2240/123, F05B 2240/1231, F05B 2240/13 and F05B 2250/5011.  All groups listed in this Warning should be considered in order to perform a complete search.		

- 1/048 . . . {for changing the flow direction, e.g. a horizontal inlet and a vertical outlet}

#### **WARNING**

Group [F03D 1/048](#) is incomplete pending reclassification of documents from groups [F03D 1/04](#), [F03D 9/35](#), [F03D 9/37](#), [F03D 9/39](#) and [F03D 9/41](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 1/051 . . {Multiple shrouds, e.g. in series or in parallel}

#### **WARNING**

Group [F03D 1/051](#) is incomplete pending reclassification of documents from groups [F03D 1/04](#) and [F05B 2240/124](#).

Groups [F03D 1/04](#), [F05B 2240/124](#) and [F03D 1/051](#) should be considered in order to perform a complete search.

- 1/053 . . {comprising controllable elements, e.g. inlet valves or shutters}

#### **WARNING**

Group [F03D 1/053](#) is incomplete pending reclassification of documents from group [F03D 1/04](#).

Groups [F03D 1/04](#) and [F03D 1/053](#) should be considered in order to perform a complete search.

- 1/06 . . Rotors

#### **WARNING**

Group [F03D 1/06](#) is incomplete pending reclassification of documents from group [F03D 1/0625](#).

Group [F03D 1/06](#) is also impacted by reclassification into groups [F03D 1/0602](#), [F03D 1/0606](#) and [F03D 1/0608](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 1/0601 . . {using the Magnus effect}

- 1/0602 . . {having rotating wind-guiding means, e.g. associated with the hub}

#### **WARNING**

Group [F03D 1/0602](#) is incomplete pending reclassification of documents from groups [F03D 1/06](#), [F03D 1/0608](#) and [F03D 1/0625](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 1/0606 . . . {Shrouds}

#### **WARNING**

Group [F03D 1/0606](#) is incomplete pending reclassification of documents from groups [F03D 1/06](#), [F03D 1/0625](#) and [F05B 2240/33](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 1/0608 . . {characterised by their aerodynamic shape}

#### **WARNING**

Group [F03D 1/0608](#) is incomplete pending reclassification of documents from groups [F03D 1/06](#) and [F03D 1/0625](#).

Group [F03D 1/0608](#) is also impacted by reclassification into group [F03D 1/0602](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 1/0625 . . . {of the whole rotor, i.e. form features of the rotor unit}  
(Frozen)

#### **WARNING**

Group [F03D 1/0625](#) is no longer used for the classification of documents as of August 1, 2023.

The content of this group is being reclassified into groups [F03D 1/06](#), [F03D 1/0602](#), [F03D 1/0606](#) and [F03D 1/0608](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 1/0633 . . . {of the blades}

#### **WARNING**

Group [F03D 1/0633](#) is impacted by reclassification into groups [F03D 1/0642](#), [F03D 1/0643](#), [F03D 1/0645](#), [F03D 1/0647](#), [F03D 1/0648](#), [F03D 1/0649](#) and [F03D 1/06495](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 1/0641 . . . . {of the section profile of the blades, i.e. aerofoil profile}

#### **WARNING**

Group [F03D 1/0641](#) is incomplete pending reclassification of documents from group [F05B 2240/30](#).

Group [F03D 1/0641](#) is also impacted by reclassification into groups [F03D 1/0642](#), [F03D 1/0643](#), [F03D 1/0645](#), [F03D 1/0647](#), [F03D 1/0648](#), [F03D 1/0649](#) and [F03D 1/06495](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/0642 . . . . {of the blade tip region}

**WARNING**

Group [F03D 1/0642](#) is incomplete pending reclassification of documents from groups [F03D 1/0633](#), [F03D 1/0641](#), [F05B 2240/301](#) and [F05B 2240/307](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/0643 . . . . {of the leading edge region}

**WARNING**

Group [F03D 1/0643](#) is incomplete pending reclassification of documents from groups [F03D 1/0633](#), [F03D 1/0641](#), [F05B 2240/301](#) and [F05B 2240/303](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/0645 . . . . {of the trailing edge region}

**WARNING**

Group [F03D 1/0645](#) is incomplete pending reclassification of documents from groups [F03D 1/0633](#), [F03D 1/0641](#), [F05B 2240/301](#), [F05B 2240/304](#) and [F05B 2240/3042](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/0647 . . . . {of the root or transition region}

**WARNING**

Group [F03D 1/0647](#) is incomplete pending reclassification of documents from groups [F03D 1/0633](#), [F03D 1/0641](#) and [F05B 2240/301](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/0648 . . . . {of changeable form, e.g. comprising inflatable elements}

**WARNING**

Group [F03D 1/0648](#) is incomplete pending reclassification of documents from groups [F03D 1/0633](#), [F03D 1/0641](#), [F05B 2240/301](#), [F05B 2240/311](#), [F05B 2240/312](#), [F05B 2240/3121](#) and [F05B 2240/313](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/0649 . . . . {of the blade surfaces, e.g. roughened}

**WARNING**

Group [F03D 1/0649](#) is incomplete pending reclassification of documents from groups [F03D 1/0633](#), [F03D 1/0641](#), [F05B 2240/301](#), [F05B 2240/306](#), [F05B 2240/3062](#) and [F05B 2240/32](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/06495 . . . . {Aerodynamic elements attached to or formed with the blade, e.g. flaps, vortex generators or noise reducers}

**WARNING**

Group [F03D 1/06495](#) is incomplete pending reclassification of documents from groups [F03D 1/0633](#), [F03D 1/0641](#), [F03D 7/0232](#), [F05B 2240/301](#), [F05B 2240/305](#), [F05B 2240/3052](#), [F05B 2240/306](#) and [F05B 2240/3062](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/065 . . . {characterised by their construction elements ([F03D 13/10](#) takes precedence)}

**WARNING**

Group [F03D 1/065](#) is incomplete pending reclassification of documents from group [F03D 1/0658](#).

Groups [F03D 1/0658](#) and [F03D 1/065](#) should be considered in order to perform a complete search.

1/0658 . . . {Arrangements for fixing wind-engaging parts to a hub}

**WARNING**

Group [F03D 1/0658](#) is impacted by reclassification into groups [F03D 1/065](#), [F03D 1/066](#), [F03D 1/0662](#), [F03D 1/0664](#), [F03D 1/0667](#), [F03D 1/0669](#) and [F03D 1/0671](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/066 . . . . {Connection means therefor, e.g. bushings or adapters}

**WARNING**

Group [F03D 1/066](#) is incomplete pending reclassification of documents from groups [F03D 1/0658](#), [F05B 2260/30](#), [F05B 2260/301](#) and [F05B 2260/3011](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/0662 . . . . {using kinematic linkage, e.g. tilt (bearing arrangements, pitch bearings [F03D 80/70](#))}

#### **WARNING**

Group [F03D 1/0662](#) is incomplete pending reclassification of documents from groups [F03D 1/0658](#), [F05B 2260/50](#), [F05B 2260/502](#), [F05B 2260/503](#), [F05B 2260/5032](#), [F05B 2260/504](#), [F05B 2260/505](#), [F05B 2260/506](#) and [F05B 2260/507](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/0664 . . . . {Pitch arrangements (controlling blade pitch [F03D 7/0224](#))}

#### **WARNING**

Group [F03D 1/0664](#) is incomplete pending reclassification of documents from groups [F03D 1/0658](#), [F03D 7/0224](#), [F05B 2260/50](#), [F05B 2260/502](#), [F05B 2260/503](#), [F05B 2260/5032](#), [F05B 2260/504](#), [F05B 2260/505](#), [F05B 2260/506](#), [F05B 2260/507](#), [F05B 2260/70](#), [F05B 2260/75](#), [F05B 2260/76](#), [F05B 2260/77](#), [F05B 2260/78](#) and [F05B 2260/79](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/0667 . . . . {characterized by the actuator arrangements}

#### **WARNING**

Group [F03D 1/0667](#) is incomplete pending reclassification of documents from groups [F03D 1/0658](#), [F03D 7/0224](#), [F05B 2260/70](#), [F05B 2260/75](#), [F05B 2260/76](#), [F05B 2260/77](#), [F05B 2260/78](#), [F05B 2260/79](#), [F05B 2270/605](#) and [F05B 2270/606](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/0669 . . . . {Hydraulic actuators}

#### **WARNING**

Group [F03D 1/0669](#) is incomplete pending reclassification of documents from groups [F03D 1/0658](#), [F03D 7/0224](#), [F05B 2260/76](#), [F05B 2260/79](#) and [F05B 2270/604](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/0671 . . . . {Electric actuators, e.g. motors}

#### **WARNING**

Group [F03D 1/0671](#) is incomplete pending reclassification of documents from groups [F03D 1/0658](#), [F03D 7/0224](#), [F05B 2260/76](#), [F05B 2260/79](#) and [F05B 2270/602](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/0675 . . . {of the blades}

#### **WARNING**

Group [F03D 1/0675](#) is impacted by reclassification into groups [F03D 1/0677](#), [F03D 1/0679](#), [F03D 1/0681](#), [F03D 1/0682](#), [F03D 1/0684](#), [F03D 1/0685](#), [F03D 1/0687](#), [F03D 1/0688](#), [F03D 1/069](#) and [F03D 80/301](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/0677 . . . . {Longitudinally segmented blades; Connectors therefor}

#### **WARNING**

Group [F03D 1/0677](#) is incomplete pending reclassification of documents from groups [F03D 1/0675](#) and [F05B 2240/302](#).

Groups [F03D 1/0675](#), [F05B 2240/302](#) and [F03D 1/0677](#) should be considered in order to perform a complete search.

1/0679 . . . . {Load carrying structures, e.g. beams}

#### **WARNING**

Groups [F03D 1/0679](#), [F03D 1/0681](#), [F03D 1/0682](#) and [F03D 1/0684](#) are incomplete pending reclassification of documents from groups [F03D 1/0675](#) and [F05B 2280/702](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/0681 . . . . {Spar caps}

1/0682 . . . . {incorporated into the shell structure}

1/0684 . . . . {Shear webs}

1/0685 . . . . {Actuation arrangements for elements attached to or incorporated with the blade (controlling flaps or slats [F03D 7/0232](#))}

#### **WARNING**

Group [F03D 1/0685](#) is incomplete pending reclassification of documents from groups [F03D 1/0675](#), [F03D 7/0232](#), [F05B 2240/30](#), [F05B 2240/305](#) and [F05B 2240/3052](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/0687 . . . . {of the blade tip region}

#### **WARNING**

Group [F03D 1/0687](#) is incomplete pending reclassification of documents from groups [F03D 1/0675](#) and [F05B 2240/307](#).

Groups [F03D 1/0675](#), [F05B 2240/307](#) and [F03D 1/0687](#) should be considered in order to perform a complete search.

1/0688 . . . . {of the leading edge region, e.g. reinforcements}

#### **WARNING**

Group [F03D 1/0688](#) is incomplete pending reclassification of documents from group [F03D 1/0675](#).

Groups [F03D 1/0675](#) and [F03D 1/0688](#) should be considered in order to perform a complete search.

1/069 . . . . {of the trailing edge region}

#### **WARNING**

Group [F03D 1/069](#) is incomplete pending reclassification of documents from group [F03D 1/0675](#).

Groups [F03D 1/0675](#) and [F03D 1/069](#) should be considered in order to perform a complete search.

1/0691 . . . {of the hub}

1/101 . {Nacelles (arrangement of components within nacelles [F03D 80/80](#))}

#### **WARNING**

Groups [F03D 1/101](#), [F03D 1/125](#), [F03D 1/141](#), [F03D 1/165](#) and [F03D 1/188](#) are incomplete pending reclassification of documents from groups [F03D 1/00](#), [F05B 2240/14](#) and [F05B 2240/142](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/125 . . {Access thereto, e.g. doors or platforms}

1/141 . . {Supporting structures, i.e. load carrying structures}

1/165 . . {Fairings, i.e. elements defining or supporting the outer surface}

1/181 . . {characterised by the connection to the tower, e.g. yaw systems (controlling the orientation in relation to wind direction [F03D 7/0204](#))}

#### **WARNING**

Group [F03D 1/181](#) is incomplete pending reclassification of documents from groups [F03D 1/00](#), [F03D 7/0204](#), [F05B 2240/14](#) and [F05B 2240/142](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/188 . . {made of several pieces and assembled on-site (assembly of wind motors [F03D 13/10](#))}

**3/00 Wind motors with rotation axis substantially perpendicular to the air flow entering the rotor (controlling thereof [F03D 7/06](#))**

3/002 . {the axis being horizontal}

3/005 . {the axis being vertical}

#### **WARNING**

Group [F03D 3/005](#) is impacted by reclassification into groups [F03D 3/009](#) and [F03D 3/011](#).

Groups [F03D 3/005](#), [F03D 3/009](#) and [F03D 3/011](#) should be considered in order to perform a complete search.

3/007 . . {using the Magnus effect}

3/009 . . {of the drag type, e.g. Savonius}

#### **WARNING**

Group [F03D 3/009](#) is incomplete pending reclassification of documents from groups [F03D 3/005](#), [F05B 2240/213](#), [F05B 2240/215](#) and [F05B 2240/216](#).

All groups listed in this Warning should be considered in order to perform a complete search.

3/011 . . {of the lift type, e.g. Darrieus or Musgrove}

#### **WARNING**

Group [F03D 3/011](#) is incomplete pending reclassification of documents from groups [F03D 3/005](#), [F05B 2240/212](#) and [F05B 2240/214](#).

All groups listed in this Warning should be considered in order to perform a complete search.

3/02 . . having a plurality of rotors

3/04 . . having stationary wind-guiding means, e.g. with shrouds or channels ([F03D 9/35](#) takes precedence)

3/0409 . . {surrounding the rotor ([F03D 3/0427](#) takes precedence)}

3/0418 . . . {comprising controllable elements}

3/0427 . . {with converging inlets, i.e. the guiding means intercepting an area greater than the effective rotor area ([F03D 3/0463](#), [F03D 3/049](#) take precedence)}

3/0436 . . {for shielding one side of the rotor}

3/0445 . . . {the shield being fixed with respect to the wind motor}

3/0454 . . . . {and only with concentrating action, i.e. only increasing the airflow speed into the rotor, e.g. divergent outlets ([F03D 3/0463](#) takes precedence)}

3/0463 . . . . {with converging inlets, i.e. the shield intercepting an area greater than the effective rotor area}

3/0472 . . . {the shield orientation being adaptable to the wind motor}

3/0481 . . . . {and only with concentrating action, i.e. only increasing the airflow speed into the rotor, e.g. divergent outlets ([F03D 3/049](#) takes precedence)}

3/049 . . . . {with converging inlets, i.e. the shield intercepting an area greater than the effective rotor area}

- 3/06 . Rotors
- 3/061 . . {characterised by their aerodynamic shape, e.g. aerofoil profiles}
- 3/062 . . {characterised by their construction elements}

**WARNING**

Group [F03D 3/062](#) is impacted by reclassification into groups [F03D 3/063](#) and [F03D 3/066](#).

Groups [F03D 3/062](#), [F03D 3/063](#) and [F03D 3/066](#) should be considered in order to perform a complete search.

- 3/063 . . . {Telescoping or folding wind engaging parts}

**WARNING**

Group [F03D 3/063](#) is incomplete pending reclassification of documents from groups [F03D 3/062](#) and [F05B 2240/2021](#).

Groups [F03D 3/062](#), [F05B 2240/2021](#) and [F03D 3/063](#) should be considered in order to perform a complete search.

- 3/064 . . . {Fixing wind engaging parts to rest of rotor}
- 3/066 . . . {the wind engaging parts being movable relative to the rotor}

**WARNING**

Group [F03D 3/066](#) is incomplete pending reclassification of documents from groups [F03D 3/062](#), [F03D 3/068](#) and [F05B 2240/218](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 3/067 . . . . {Cyclic movements}

**WARNING**

Group [F03D 3/067](#) is incomplete pending reclassification of documents from groups [F03D 3/068](#) and [F05B 2240/218](#).

Groups [F03D 3/068](#), [F05B 2240/218](#) and [F03D 3/067](#) should be considered in order to perform a complete search.

- 3/068 . . . . . {mechanically controlled by the rotor structure}

**WARNING**

Group [F03D 3/068](#) is incomplete pending reclassification of documents from group [F05B 2240/218](#).

Group [F03D 3/068](#) is also impacted by reclassification into groups [F03D 3/066](#) and [F03D 3/067](#).

All groups listed in this Warning should be considered in order to perform a complete search.

**5/00 Other wind motors (controlling thereof [F03D 7/00](#))****WARNING**

Group [F03D 5/00](#) is impacted by reclassification into groups [F03D 5/015](#), [F03D 9/322](#) and [F03D 9/324](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 5/005 . {Wind motors having a single vane which axis generate a conus or like surface}
- 5/015 . {of the tethered aircraft type, e.g. kites, with traction and retraction of the tether (controlling thereof [F03D 7/051](#))}

**WARNING**

Group [F03D 5/015](#) is incomplete pending reclassification of documents from groups [F03D 5/00](#) and [F05B 2240/9172](#).

Groups [F03D 5/00](#), [F05B 2240/9172](#) and [F03D 5/015](#) should be considered in order to perform a complete search.

- 5/02 . the wind-engaging parts being attached to endless chains or the like
- 5/04 . the wind-engaging parts being attached to carriages running on tracks or the like
- 5/06 . the wind-engaging parts swinging to-and-fro and not rotating

- 7/00 **Controlling wind motors (supplying or distributing electrical power [H02J](#), e.g. arrangements for adjusting, eliminating or compensating reactive power in networks [H02J 3/18](#); controlling electric generators [H02P](#), e.g. arrangements for controlling electric generators for the purpose of obtaining a desired output [H02P 9/00](#))**

**WARNING**

Group [F03D 7/00](#) is impacted by reclassification into group [F03D 7/051](#).

Groups [F03D 7/00](#) and [F03D 7/051](#) should be considered in order to perform a complete search.

- 7/02 . the wind motors having rotation axis substantially parallel to the air flow entering the rotor

**WARNING**

Group [F03D 7/02](#) is impacted by reclassification into group [F03D 7/0202](#).

Groups [F03D 7/02](#) and [F03D 7/0202](#) should be considered in order to perform a complete search.

- 7/0202 . . {controlling floating wind motors}

**WARNING**

Group [F03D 7/0202](#) is incomplete pending reclassification of documents from groups [F03D 7/02](#), [F03D 7/0204](#), [F03D 7/0224](#), [F03D 7/0236](#), [F05B 2240/93](#), [F05B 2240/931](#), [F05B 2240/932](#) and [F05B 2270/18](#).

All groups listed in this Warning should be considered in order to perform a complete search.



- 7/0204 . . {for orientation in relation to wind direction}

#### **WARNING**

Group [F03D 7/0204](#) is impacted by reclassification into groups [F03D 7/0202](#) and [F03D 1/181](#).

Groups [F03D 7/0204](#), [F03D 7/0202](#) and [F03D 1/181](#) should be considered in order to perform a complete search.

- 7/0208 . . . {Orientating out of wind}  
 7/0212 . . . {the rotating axis remaining horizontal}  
 7/0216 . . . {the rotating axis changing to vertical position}  
 7/022 . . {Adjusting aerodynamic properties of the blades}  
 7/0224 . . . {Adjusting blade pitch}

#### **WARNING**

Group [F03D 7/0224](#) is impacted by reclassification into groups [F03D 1/0664](#), [F03D 1/0667](#), [F03D 1/0669](#), [F03D 1/0671](#), [F03D 7/0202](#), [F03D 17/029](#) and [F03D 80/701](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/0228 . . . {of the blade tips only}  
 7/0232 . . . {with flaps or slats (with aerodynamic drag devices on the blades for braking [F03D 7/0252](#))}

#### **WARNING**

Group [F03D 7/0232](#) is impacted by reclassification into groups [F03D 1/06495](#) and [F03D 1/0685](#).

Groups [F03D 7/0232](#), [F03D 1/06495](#) and [F03D 1/0685](#) should be considered in order to perform a complete search.

- 7/0236 . . . {by changing the active surface of the wind engaging parts, e.g. reefing or furling}

#### **WARNING**

Group [F03D 7/0236](#) is impacted by reclassification into groups [F03D 7/0202](#), [F03D 7/0237](#) and [F03D 7/0239](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/0237 . . . {by means of telescoping blades}

#### **WARNING**

Group [F03D 7/0237](#) is incomplete pending reclassification of documents from groups [F03D 7/0236](#) and [F05B 2240/2021](#).

Groups [F03D 7/0236](#), [F05B 2240/2021](#) and [F03D 7/0237](#) should be considered in order to perform a complete search.

- 7/0239 . . . {by means of teetering or coning blades}

#### **WARNING**

Group [F03D 7/0239](#) is incomplete pending reclassification of documents from groups [F03D 7/0236](#) and [F05B 2240/2022](#).

Groups [F03D 7/0236](#), [F05B 2240/2022](#) and [F03D 7/0239](#) should be considered in order to perform a complete search.

- 7/024 . . . {of individual blades}  
 7/0244 . . {for braking}  
 7/0248 . . . {by mechanical means acting on the power train}  
 7/0252 . . . {with aerodynamic drag devices on the blades}  
 7/0256 . . {Stall control (adjusting the blades in stall position [F03D 7/0224](#))}  
 7/026 . . {for starting-up}  
 7/0264 . . {for stopping; controlling in emergency situations (orientating out of wind [F03D 7/0208](#))}  
 7/0268 . . . {Parking or storm protection}  
 7/0272 . . {by measures acting on the electrical generator}  
 7/0276 . . {controlling rotor speed, e.g. variable speed}  
 7/028 . . {controlling wind motor output power}

#### **WARNING**

Group [F03D 7/028](#) is incomplete pending reclassification of documents from group [F03D 7/0288](#).

Groups [F03D 7/0288](#) and [F03D 7/028](#) should be considered in order to perform a complete search.

- 7/0284 . . . {in relation to the state of the electric grid}  
 7/0288 . . . {in relation to clearance between the blade and the tower, i.e. preventing tower strike}

#### **WARNING**

Group [F03D 7/0288](#) is impacted by reclassification into group [F03D 7/028](#).

Groups [F03D 7/0288](#) and [F03D 7/028](#) should be considered in order to perform a complete search.

- 7/0292 . . . {to reduce fatigue}  
 7/0296 . . {to prevent, counteract or reduce noise emissions}

#### **WARNING**

Group [F03D 7/0296](#) is incomplete pending reclassification of documents from group [F05B 2270/333](#).

Group [F03D 7/0296](#) is also impacted by reclassification into groups [F03D 7/0298](#), [F03D 7/0302](#), [F03D 17/015](#), [F03D 17/016](#) and [F03D 17/017](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/0298 . . {to prevent, counteract or reduce vibrations}

#### **WARNING**

Groups [F03D 7/0298](#) and [F03D 7/0302](#) are incomplete pending reclassification of documents from groups [F03D 7/0296](#) and [F05B 2270/334](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/0302 . . . {of the tower}  
 7/04 . . Automatic control; Regulation  
 7/041 . . . {by means of a mechanical governor}  
 7/042 . . . {by means of an electrical or electronic controller}  
 7/043 . . . . {characterised by the type of control logic}  
 7/044 . . . . . {with PID control}  
 7/045 . . . . . {with model-based controls}  
 7/046 . . . . . {with learning or adaptive control, e.g. self-tuning, fuzzy logic or neural network}  
 7/047 . . . . {characterised by the controller architecture, e.g. multiple processors or data communications}  
 7/048 . . . . {controlling wind farms}

#### **WARNING**

Group [F03D 7/048](#) is impacted by reclassification into group [F03D 7/049](#).

Groups [F03D 7/048](#) and [F03D 7/049](#) should be considered in order to perform a complete search.

- 7/049 . . . . . {in relation to the wake effect}

#### **WARNING**

Group [F03D 7/049](#) is incomplete pending reclassification of documents from groups [F03D 7/048](#) and [F05B 2270/204](#).

Groups [F03D 7/048](#), [F05B 2270/204](#) and [F03D 7/049](#) should be considered in order to perform a complete search.

- 7/051 . {the wind motors being supported in air by airborne structures; of the tethered aircraft type}

#### **WARNING**

Group [F03D 7/051](#) is incomplete pending reclassification of documents from groups [F03D 7/00](#) and [F05B 2270/18](#).

Groups [F03D 7/00](#), [F05B 2270/18](#) and [F03D 7/051](#) should be considered in order to perform a complete search.

- 7/06 . the wind motors having rotation axis substantially perpendicular to the air flow entering the rotor

#### **WARNING**

Group [F03D 7/06](#) is impacted by reclassification into group [F03D 7/065](#).

Groups [F03D 7/06](#) and [F03D 7/065](#) should be considered in order to perform a complete search.

- 7/065 . . {controlling rotor speed}

#### **WARNING**

Group [F03D 7/065](#) is incomplete pending reclassification of documents from groups [F03D 7/06](#), [F05B 2270/101](#), [F05B 2270/1011](#), [F05B 2270/1012](#) and [F05B 2270/1014](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/00 **Adaptations of wind motors for special use; Combinations of wind motors with apparatus driven thereby; Wind motors specially adapted for installation in particular locations (hybrid wind-photovoltaic energy systems for the generation of electric power [H02S 10/12](#))**

- 9/007 . {the wind motor being combined with means for converting solar radiation into useful energy}  
 9/008 . {the wind motor being combined with water energy converters, e.g. a water turbine}  
 9/10 . Combinations of wind motors with apparatus storing energy  
 9/11 . . storing electrical energy  
 9/12 . . storing kinetic energy, e.g. using flywheels  
 9/13 . . storing gravitational potential energy  
 9/14 . . . using liquids  
 9/16 . . . using weights  
 9/17 . . storing energy in pressurised fluids  
 9/18 . . storing heat  
 9/19 . . storing chemical energy, e.g. using electrolysis  
 9/20 . Wind motors characterised by the driven apparatus ([F03D 9/10 takes precedence](#))  
 9/22 . . the apparatus producing heat  
 9/25 . . the apparatus being an electrical generator ([F03D 9/22 takes precedence](#))

#### **WARNING**

Group [F03D 9/25](#) is impacted by reclassification into groups [F03D 15/205](#) and [F03D 15/207](#).

Groups [F03D 9/25](#), [F03D 15/205](#) and [F03D 15/207](#) should be considered in order to perform a complete search.

- 9/255 . . . {connected to electrical distribution networks; Arrangements therefor}  
 9/257 . . . . {the wind motor being part of a wind farm}  
 9/28 . . the apparatus being a pump or a compressor  
 9/30 . Wind motors specially adapted for installation in particular locations (means for mounting or supporting wind motors [F03D 13/20](#))

#### **WARNING**

Group [F03D 9/30](#) is impacted by reclassification into groups [F03D 9/322](#) and [F03D 9/324](#).

Groups [F03D 9/30](#), [F03D 9/322](#) and [F03D 9/324](#) should be considered in order to perform a complete search.



- 9/32 . . . on moving objects, e.g. vehicles

#### **WARNING**

Group [F03D 9/32](#) is impacted by reclassification into groups [F03D 9/322](#) and [F03D 9/324](#).

Groups [F03D 9/32](#), [F03D 9/322](#) and [F03D 9/324](#) should be considered in order to perform a complete search.

- 9/322 . . . {the wind motors being supported in air by airborne structures, e.g. by kites (controlling thereof [F03D 7/051](#))}

#### **WARNING**

Group [F03D 9/322](#) is incomplete pending reclassification of documents from groups [F03D 5/00](#), [F03D 9/30](#), [F03D 9/32](#), [F05B 2240/917](#), [F05B 2240/9176](#), [F05B 2240/92](#), [F05B 2240/921](#), [F05B 2240/922](#) and [F05B 2240/923](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/324 . . . . {following a flying pattern}

#### **WARNING**

Group [F03D 9/324](#) is incomplete pending reclassification of documents from groups [F03D 5/00](#), [F03D 9/30](#), [F03D 9/32](#) and [F05B 2240/9174](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/34 . . . on stationary objects or on stationary man-made structures

- 9/35 . . . within towers, e.g. using chimney effects

#### **WARNING**

Group [F03D 9/35](#) is impacted by reclassification into group [F03D 1/048](#).

Groups [F03D 9/35](#) and [F03D 1/048](#) should be considered in order to perform a complete search.

- 9/37 . . . . with means for enhancing the air flow within the tower, e.g. by heating

#### **WARNING**

Group [F03D 9/37](#) is impacted by reclassification into group [F03D 1/048](#).

Groups [F03D 9/37](#) and [F03D 1/048](#) should be considered in order to perform a complete search.

- 9/39 . . . . . by circulation or vortex formation

#### **WARNING**

Group [F03D 9/39](#) is impacted by reclassification into group [F03D 1/048](#).

Groups [F03D 9/39](#) and [F03D 1/048](#) should be considered in order to perform a complete search.

- 9/41 . . . . . by using the wind outside the tower, e.g. using ejectors

#### **WARNING**

Group [F03D 9/41](#) is impacted by reclassification into group [F03D 1/048](#).

Groups [F03D 9/41](#) and [F03D 1/048](#) should be considered in order to perform a complete search.

- 9/43 . . . using infrastructure primarily used for other purposes, e.g. masts for overhead railway power lines

- 9/45 . . . . Building formations

- 9/46 . . . . Tunnels or streets

- 9/48 . . using landscape topography, e.g. valleys

#### **13/00 Assembly, mounting or commissioning of wind motors; Arrangements specially adapted for transporting wind motor components**

- 13/10 . Assembly of wind motors; Arrangements for erecting wind motors

#### **WARNING**

Group [F03D 13/10](#) is impacted by reclassification into groups [F03D 13/104](#), [F03D 13/108](#), [F03D 13/112](#), [F03D 13/116](#), [F03D 13/122](#), [F03D 13/126](#), [F03D 13/135](#) and [F03D 13/139](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 13/104 . . {Rotor installation, e.g. installation of blades}

#### **WARNING**

Group [F03D 13/104](#) is incomplete pending reclassification of documents from group [F03D 13/10](#).

Groups [F03D 13/10](#) and [F03D 13/104](#) should be considered in order to perform a complete search.

- 13/108 . . . {Alignment, e.g. of blades to rotor hub}

#### **WARNING**

Group [F03D 13/108](#) is incomplete pending reclassification of documents from groups [F03D 13/10](#) and [F05B 2230/604](#).

Groups [F03D 13/10](#), [F05B 2230/604](#) and [F03D 13/108](#) should be considered in order to perform a complete search.

- 13/112 . . {of towers; of masts}

#### **WARNING**

Group [F03D 13/112](#) is incomplete pending reclassification of documents from group [F03D 13/10](#).

Groups [F03D 13/10](#) and [F03D 13/112](#) should be considered in order to perform a complete search.

- 13/116 . . {of nacelles}

**WARNING**

Group [F03D 13/116](#) is incomplete pending reclassification of documents from group [F03D 13/10](#).

Groups [F03D 13/10](#) and [F03D 13/116](#) should be considered in order to perform a complete search.

- 13/122 . . {of auxiliary arrangements inside tower or nacelle, e.g. generators or transmission}

**WARNING**

Group [F03D 13/122](#) is incomplete pending reclassification of documents from group [F03D 13/10](#).

Groups [F03D 13/10](#) and [F03D 13/122](#) should be considered in order to perform a complete search.

- 13/126 . . {Offshore}

**WARNING**

Group [F03D 13/126](#) is incomplete pending reclassification of documents from group [F03D 13/10](#).

Groups [F03D 13/10](#) and [F03D 13/126](#) should be considered in order to perform a complete search.

- 13/135 . . {Pre-assembling, i.e. partially or completely assembling the wind motor before transport to the installation site}

**WARNING**

Group [F03D 13/135](#) is incomplete pending reclassification of documents from group [F03D 13/10](#).

Groups [F03D 13/10](#) and [F03D 13/135](#) should be considered in order to perform a complete search.

- 13/139 . . {Assembling or erecting wind motors by using lifting means}

**WARNING**

Group [F03D 13/139](#) is incomplete pending reclassification of documents from groups [F03D 13/10](#), [F05B 2230/61](#) and [F05B 2230/6102](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 13/20 . Arrangements for mounting or supporting wind motors; Masts or towers for wind motors

**WARNING**

Group [F03D 13/20](#) is incomplete pending reclassification of documents from group [F03D 13/22](#).

Group [F03D 13/20](#) is also impacted by reclassification into groups [F03D 13/2005](#), [F03D 13/201](#), [F03D 13/202](#), [F03D 13/203](#), [F03D 13/204](#), [F03D 13/205](#) and [F03D 13/206](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 13/2005 . . {Masts or poles}

**WARNING**

Group [F03D 13/2005](#) is incomplete pending reclassification of documents from groups [F03D 13/20](#), [F03D 80/00](#) and [F05B 2240/913](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 13/201 . . {Towers}

**WARNING**

Groups [F03D 13/201](#) and [F03D 13/202](#) are incomplete pending reclassification of documents from groups [F03D 13/20](#), [F03D 80/00](#) and [F05B 2240/912](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 13/202 . . . {Access thereto}

- 13/203 . . . {Lattice truss}

**WARNING**

Group [F03D 13/203](#) is incomplete pending reclassification of documents from groups [F03D 13/20](#), [F03D 80/00](#) and [F05B 2240/9121](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 13/204 . . . {Circumferentially segmented}

**WARNING**

Group [F03D 13/204](#) is incomplete pending reclassification of documents from groups [F03D 13/20](#) and [F03D 80/00](#).

Groups [F03D 13/20](#), [F03D 80/00](#) and [F03D 13/204](#) should be considered in order to perform a complete search.

- 13/205 . . . {Connection means, e.g. joints between segments}
- WARNING**
- Groups [F03D 13/205](#) and [F03D 13/206](#) are incomplete pending reclassification of documents from groups [F03D 13/20](#), [F03D 13/22](#) and [F03D 80/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 13/206 . . . . {between the tower and the foundation}
- 13/22 . . {Foundations specially adapted for wind motors} (Frozen)
- WARNING**
- Group [F03D 13/22](#) is no longer used for the classification of documents as of August 1, 2023.
- The content of this group is being reclassified into groups [F03D 13/20](#), [F03D 13/205](#), [F03D 13/206](#) and [F03D 13/256](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 13/25 . . specially adapted for offshore installation
- WARNING**
- Group [F03D 13/25](#) is impacted by reclassification into group [F03D 13/256](#).
- Groups [F03D 13/25](#) and [F03D 13/256](#) should be considered in order to perform a complete search.
- 13/256 . . . {on a floating support, i.e. floating wind motors}
- WARNING**
- Group [F03D 13/256](#) is incomplete pending reclassification of documents from groups [F03D 13/22](#), [F03D 13/25](#), [F05B 2240/93](#), [F05B 2240/931](#) and [F05B 2240/932](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 13/30 . Commissioning, e.g. inspection, testing or final adjustment before releasing for production
- WARNING**
- Group [F03D 13/30](#) is impacted by reclassification into groups [F03D 80/002](#) and [F03D 80/011](#).
- Groups [F03D 13/30](#), [F03D 80/002](#) and [F03D 80/011](#) should be considered in order to perform a complete search.
- 13/35 . . Balancing static or dynamic imbalances
- 13/40 . Arrangements or methods specially adapted for transporting wind motor components
- WARNING**
- Group [F03D 13/40](#) is impacted by reclassification into groups [F03D 13/401](#), [F03D 13/402](#) and [F03D 13/403](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 13/401 . . {for transporting or storing blades}
- WARNING**
- Group [F03D 13/401](#) is incomplete pending reclassification of documents from group [F03D 13/40](#).
- Groups [F03D 13/40](#) and [F03D 13/401](#) should be considered in order to perform a complete search.
- 13/402 . . {for transporting or storing towers}
- WARNING**
- Group [F03D 13/402](#) is incomplete pending reclassification of documents from group [F03D 13/40](#).
- Groups [F03D 13/40](#) and [F03D 13/402](#) should be considered in order to perform a complete search.
- 13/403 . . {for transporting or storing nacelles}
- WARNING**
- Group [F03D 13/403](#) is incomplete pending reclassification of documents from group [F03D 13/40](#).
- Groups [F03D 13/40](#) and [F03D 13/403](#) should be considered in order to perform a complete search.
- 15/00 **Transmission of mechanical power**
- WARNING**
- Group [F03D 15/00](#) is impacted by reclassification into groups [F03D 15/10](#), [F03D 15/101](#), [F03D 15/201](#), [F03D 15/202](#), [F03D 15/205](#) and [F03D 15/207](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 15/05 . {using hollow exhausting blades}
- 15/10 . using gearing not limited to rotary motion, e.g. with oscillating or reciprocating members
- WARNING**
- Group [F03D 15/10](#) is incomplete pending reclassification of documents from group [F03D 15/00](#).
- Group [F03D 15/10](#) is also impacted by reclassification into groups [F03D 15/101](#), [F03D 80/701](#), [F03D 80/703](#), [F03D 80/705](#), [F03D 80/707](#) and [F03D 80/709](#).
- All groups listed in this Warning should be considered in order to perform a complete search.

- 15/101 . . {of the epicyclic or planetary type}
- WARNING**
- Group [F03D 15/101](#) is incomplete pending reclassification of documents from groups [F03D 15/00](#), [F03D 15/10](#) and [F05B 2260/40311](#).
- All groups listed in this Warning should be considered in order to perform a complete search.

- 15/15 . . {Changing or adjusting stroke}
- 15/20 . Gearless transmission, i.e. direct-drive
- 15/201 . {using friction drives, e.g. belts}
- WARNING**
- Group [F03D 15/201](#) is incomplete pending reclassification of documents from groups [F03D 15/00](#), [F05B 2260/402](#), [F05B 2260/4021](#), [F05B 2260/4022](#) and [F05B 2260/4023](#).
- All groups listed in this Warning should be considered in order to perform a complete search.

- 15/202 . {using hydraulic transmission}
- WARNING**
- Group [F03D 15/202](#) is incomplete pending reclassification of documents from groups [F03D 15/00](#) and [F05B 2260/406](#).
- Groups [F03D 15/00](#), [F05B 2260/406](#) and [F03D 15/202](#) should be considered in order to perform a complete search.

- 15/205 . {to the generator located at the tower bottom}
- WARNING**
- Group [F03D 15/205](#) is incomplete pending reclassification of documents from groups [F03D 9/25](#) and [F03D 15/00](#).
- Groups [F03D 9/25](#), [F03D 15/00](#) and [F03D 15/205](#) should be considered in order to perform a complete search.

- 15/207 . {to multiple generators, e.g. in series}
- WARNING**
- Group [F03D 15/207](#) is incomplete pending reclassification of documents from groups [F03D 9/25](#) and [F03D 15/00](#).
- Groups [F03D 9/25](#), [F03D 15/00](#) and [F03D 15/207](#) should be considered in order to perform a complete search.

- 17/00 **Monitoring or testing of wind motors, e.g. diagnostics (testing during commissioning of wind motors [F03D 13/30](#))**

**WARNING**

Group [F03D 17/00](#) is impacted by reclassification into groups [F03D 17/001](#), [F03D 17/002](#), [F03D 17/003](#), [F03D 17/004](#), [F03D 17/005](#), [F03D 17/006](#), [F03D 17/0065](#), [F03D 17/007](#), [F03D 17/008](#), [F03D 17/009](#), [F03D 17/011](#), [F03D 17/012](#), [F03D 17/013](#), [F03D 17/014](#), [F03D 17/015](#), [F03D 17/016](#), [F03D 17/017](#), [F03D 17/018](#), [F03D 17/021](#), [F03D 17/022](#), [F03D 17/024](#), [F03D 17/025](#), [F03D 17/026](#), [F03D 17/027](#), [F03D 17/028](#), [F03D 17/0285](#), [F03D 17/029](#), [F03D 17/031](#), [F03D 17/032](#), [F03D 17/033](#), [F03D 17/034](#) and [F03D 17/036](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 17/001 . {Inspection}

**WARNING**

Groups [F03D 17/001](#) and [F03D 17/004](#) are incomplete pending reclassification of documents from groups [F03D 17/00](#), [F03D 80/50](#), [F05B 2260/80](#) and [F05B 2260/83](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 17/002 . . {by testing or performing a safety check}

**WARNING**

Group [F03D 17/002](#) is incomplete pending reclassification of documents from groups [F03D 17/00](#), [F03D 80/50](#) and [F05B 2260/83](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 17/003 . . {characterised by using optical devices, e.g. lidar or cameras}

**WARNING**

Group [F03D 17/003](#) is incomplete pending reclassification of documents from groups [F03D 17/00](#), [F03D 80/50](#), [F05B 2260/83](#), [F05B 2270/804](#), [F05B 2270/8041](#) and [F05B 2270/8042](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 17/004 . . {by using remote inspection vehicles, e.g. robots or drones}

- 17/005 . . {using computation methods, e.g. neural networks}

**WARNING**

Groups [F03D 17/005](#), [F03D 17/006](#) and [F03D 17/0065](#) are incomplete pending reclassification of documents from groups [F03D 17/00](#), [F05B 2260/80](#), [F05B 2260/82](#), [F05B 2260/821](#), [F05B 2260/8211](#) and [F05B 2260/84](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 17/006 . . {Estimation methods}  
 17/0065 . . {for diagnostics}  
 17/007 . {Wind farm monitoring}

**WARNING**

Group [F03D 17/007](#) is incomplete pending reclassification of documents from group [F03D 17/00](#).

Groups [F03D 17/00](#) and [F03D 17/007](#) should be considered in order to perform a complete search.

- 17/008 . . {through wake analysis}

**WARNING**

Group [F03D 17/008](#) is incomplete pending reclassification of documents from groups [F03D 17/00](#) and [F05B 2270/204](#).

Groups [F03D 17/00](#), [F05B 2270/204](#) and [F03D 17/008](#) should be considered in order to perform a complete search.

- 17/009 . {characterised by the purpose}

**WARNING**

Groups [F03D 17/009](#) and [F03D 17/014](#) are incomplete pending reclassification of documents from groups [F03D 17/00](#) and [F05B 2260/80](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 17/011 . . {for monitoring mechanical loads or assessing fatigue; for monitoring structural integrity}

**WARNING**

Group [F03D 17/011](#) is incomplete pending reclassification of documents from groups [F03D 17/00](#), [F05B 2260/80](#), [F05B 2270/331](#) and [F05B 2270/332](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 17/012 . . {for monitoring wear or clearance}

**WARNING**

Group [F03D 17/012](#) is incomplete pending reclassification of documents from group [F03D 17/00](#).

Groups [F03D 17/00](#) and [F03D 17/012](#) should be considered in order to perform a complete search.

- 17/013 . . {for detecting abnormalities or damage}

**WARNING**

Group [F03D 17/013](#) is incomplete pending reclassification of documents from group [F03D 17/00](#).

Groups [F03D 17/00](#) and [F03D 17/013](#) should be considered in order to perform a complete search.

- 17/014 . . . {indicative of a fault or failure}

- 17/015 . . {for monitoring vibrations}

**WARNING**

Group [F03D 17/015](#) is incomplete pending reclassification of documents from groups [F03D 7/0296](#), [F03D 17/00](#), [F05B 2260/80](#) and [F05B 2270/334](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 17/016 . . . {indicative of rotor imbalance}

**WARNING**

Group [F03D 17/016](#) is incomplete pending reclassification of documents from groups [F03D 7/0296](#) and [F03D 17/00](#).

Groups [F03D 7/0296](#), [F03D 17/00](#) and [F03D 17/016](#) should be considered in order to perform a complete search.

- 17/017 . . . {Natural frequencies or oscillations}

**WARNING**

Group [F03D 17/017](#) is incomplete pending reclassification of documents from groups [F03D 7/0296](#) and [F03D 17/00](#).

Groups [F03D 7/0296](#), [F03D 17/00](#) and [F03D 17/017](#) should be considered in order to perform a complete search.

- 17/018 . . {for monitoring temperature}

**WARNING**

Group [F03D 17/018](#) is incomplete pending reclassification of documents from groups [F03D 17/00](#), [F05B 2270/303](#) and [F05B 2270/3032](#).

All groups listed in this Warning should be considered in order to perform a complete search.

17/021 . . {for monitoring power or current}

**WARNING**

Group [F03D 17/021](#) is incomplete pending reclassification of documents from group [F03D 17/00](#).

Groups [F03D 17/00](#) and [F03D 17/021](#) should be considered in order to perform a complete search.

17/022 . . {for monitoring displacement}

**WARNING**

Group [F03D 17/022](#) is incomplete pending reclassification of documents from groups [F03D 17/00](#) and [F05B 2270/821](#).

Groups [F03D 17/00](#), [F05B 2270/821](#) and [F03D 17/022](#) should be considered in order to perform a complete search.

17/024 . . {for monitoring sound or acoustic signals}

**WARNING**

Group [F03D 17/024](#) is incomplete pending reclassification of documents from groups [F03D 17/00](#), [F05B 2270/333](#) and [F05B 2270/81](#).

All groups listed in this Warning should be considered in order to perform a complete search.

17/025 . . {for calibrating}

**WARNING**

Group [F03D 17/025](#) is incomplete pending reclassification of documents from groups [F03D 17/00](#) and [F05B 2270/802](#).

Groups [F03D 17/00](#), [F05B 2270/802](#) and [F03D 17/025](#) should be considered in order to perform a complete search.

17/026 . . {for assessing power production capabilities}

**WARNING**

Group [F03D 17/026](#) is incomplete pending reclassification of documents from group [F03D 17/00](#).

Groups [F03D 17/00](#) and [F03D 17/026](#) should be considered in order to perform a complete search.

17/027 . {characterised by the component being monitored or tested}

**WARNING**

Group [F03D 17/027](#) is incomplete pending reclassification of documents from groups [F03D 17/00](#) and [F05B 2260/80](#).

Groups [F03D 17/00](#), [F05B 2260/80](#) and [F03D 17/027](#) should be considered in order to perform a complete search.

17/028 . . {Blades}

**WARNING**

Group [F03D 17/028](#) is incomplete pending reclassification of documents from groups [F03D 17/00](#), [F05B 2260/80](#), [F05B 2270/17](#), [F05B 2270/33](#), [F05B 2270/332](#), [F05B 2270/333](#) and [F05B 2270/334](#).

All groups listed in this Warning should be considered in order to perform a complete search.

17/0285 . . . {Surfaces thereof}

**WARNING**

Group [F03D 17/0285](#) is incomplete pending reclassification of documents from groups [F03D 17/00](#), [F05B 2270/332](#), [F05B 2270/333](#) and [F05B 2270/334](#).

All groups listed in this Warning should be considered in order to perform a complete search.

17/029 . . {Blade pitch or yaw drive systems, e.g. pitch or yaw angle}

**WARNING**

Group [F03D 17/029](#) is incomplete pending reclassification of documents from groups [F03D 7/0224](#), [F03D 17/00](#), [F05B 2270/328](#), [F05B 2270/329](#), [F05B 2270/332](#), [F05B 2270/333](#) and [F05B 2270/334](#).

All groups listed in this Warning should be considered in order to perform a complete search.

17/031 . . {Shafts}

**WARNING**

Group [F03D 17/031](#) is incomplete pending reclassification of documents from groups [F03D 17/00](#), [F05B 2270/332](#), [F05B 2270/333](#) and [F05B 2270/334](#).

All groups listed in this Warning should be considered in order to perform a complete search.

17/032 . . {Bearings}

**WARNING**

Group [F03D 17/032](#) is incomplete pending reclassification of documents from groups [F03D 17/00](#), [F05B 2260/80](#), [F05B 2270/332](#), [F05B 2270/333](#) and [F05B 2270/334](#).

All groups listed in this Warning should be considered in order to perform a complete search.



- 17/033 . . {Gearboxes}
- WARNING**
- Group [F03D 17/033](#) is incomplete pending reclassification of documents from groups [F03D 17/00](#), [F05B 2270/332](#), [F05B 2270/333](#) and [F05B 2270/334](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 17/034 . . {Towers}
- WARNING**
- Group [F03D 17/034](#) is incomplete pending reclassification of documents from groups [F03D 17/00](#), [F05B 2260/80](#), [F05B 2270/17](#), [F05B 2270/33](#), [F05B 2270/332](#), [F05B 2270/333](#) and [F05B 2270/334](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 17/036 . . {Generators}
- WARNING**
- Group [F03D 17/036](#) is incomplete pending reclassification of documents from groups [F03D 17/00](#), [F05B 2260/80](#), [F05B 2270/3032](#), [F05B 2270/332](#), [F05B 2270/333](#) and [F05B 2270/334](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 80/00 **Details, components or accessories not provided for in groups [F03D 1/00](#) - [F03D 17/00](#)**
- WARNING**
- Group [F03D 80/00](#) is impacted by reclassification into groups [F03D 13/2005](#), [F03D 13/201](#), [F03D 13/202](#), [F03D 13/203](#), [F03D 13/204](#), [F03D 13/205](#), [F03D 13/206](#), [F03D 80/001](#), [F03D 80/002](#), [F03D 80/003](#), [F03D 80/004](#), [F03D 80/005](#) and [F03D 80/011](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 80/001 . {Human safety arrangements, e.g. evacuation or emergency}
- WARNING**
- Group [F03D 80/001](#) is incomplete pending reclassification of documents from groups [F03D 80/00](#) and [F03D 80/50](#).
- Groups [F03D 80/00](#), [F03D 80/50](#) and [F03D 80/001](#) should be considered in order to perform a complete search.
- 80/002 . {Micro-siting, i.e. process through which the specific location or arrangement of wind turbine is determined}
- WARNING**
- Group [F03D 80/002](#) is incomplete pending reclassification of documents from groups [F03D 13/30](#), [F03D 80/00](#), [F05B 2270/20](#) and [F05B 2270/204](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 80/003 . {Power-supply to auxiliary components, e.g. to pitch drives or cooling fans}
- WARNING**
- Group [F03D 80/003](#) is incomplete pending reclassification of documents from groups [F03D 80/00](#), [F03D 80/82](#), [F03D 80/85](#), [F05B 2270/502](#), [F05B 2270/504](#), [F05B 2270/506](#) and [F05B 2270/508](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 80/004 . {for reducing adverse effects on animals, e.g. preventing avian collisions; Detection of animals}
- WARNING**
- Group [F03D 80/004](#) is incomplete pending reclassification of documents from groups [F03D 80/00](#) and [F03D 80/10](#).
- Groups [F03D 80/00](#), [F03D 80/10](#) and [F03D 80/004](#) should be considered in order to perform a complete search.
- 80/005 . {for reducing noise pollution}
- WARNING**
- Group [F03D 80/005](#) is incomplete pending reclassification of documents from groups [F03D 80/00](#), [F05B 2260/96](#), [F05B 2260/962](#), [F05B 2260/964](#), [F05B 2260/966](#) and [F05B 2270/333](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 80/011 . {Decommissioning}
- WARNING**
- Group [F03D 80/011](#) is incomplete pending reclassification of documents from groups [F03D 13/30](#), [F03D 80/00](#) and [F05B 2230/70](#).
- All groups listed in this Warning should be considered in order to perform a complete search.

- 80/10 . Arrangements for warning air traffic
- WARNING**
- Group [F03D 80/10](#) is impacted by reclassification into group [F03D 80/004](#).
- Groups [F03D 80/10](#) and [F03D 80/004](#) should be considered in order to perform a complete search.
- 80/20 . Arrangements for avoiding shadow flicker
- 80/30 . Lightning protection
- WARNING**
- Group [F03D 80/30](#) is impacted by reclassification into group [F03D 80/301](#).
- Groups [F03D 80/30](#) and [F03D 80/301](#) should be considered in order to perform a complete search.
- 80/301 . . {Lightning receptor and down conductor systems in or on blades}
- WARNING**
- Group [F03D 80/301](#) is incomplete pending reclassification of documents from groups [F03D 1/0675](#), [F03D 80/30](#) and [F05B 2240/85](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 80/40 . Ice detection; De-icing means
- WARNING**
- Group [F03D 80/40](#) is impacted by reclassification into groups [F03D 80/401](#), [F03D 80/402](#), [F03D 80/403](#) and [F03D 80/405](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 80/401 . . {De-icing by electrical resistance heating}
- WARNING**
- Group [F03D 80/401](#) is incomplete pending reclassification of documents from group [F03D 80/40](#).
- Groups [F03D 80/40](#) and [F03D 80/401](#) should be considered in order to perform a complete search.
- 80/402 . . {De-icing by convective heating}
- WARNING**
- Group [F03D 80/402](#) is incomplete pending reclassification of documents from group [F03D 80/40](#).
- Groups [F03D 80/40](#) and [F03D 80/402](#) should be considered in order to perform a complete search.
- 80/403 . . {Inducing vibrations for de-icing; De-icing by shaking}
- WARNING**
- Group [F03D 80/403](#) is incomplete pending reclassification of documents from group [F03D 80/40](#).
- Groups [F03D 80/40](#) and [F03D 80/403](#) should be considered in order to perform a complete search.
- 80/405 . . {Ice detection}
- WARNING**
- Group [F03D 80/405](#) is incomplete pending reclassification of documents from group [F03D 80/40](#).
- Groups [F03D 80/40](#) and [F03D 80/405](#) should be considered in order to perform a complete search.
- 80/50 . Maintenance or repair
- WARNING**
- Group [F03D 80/50](#) is impacted by reclassification into groups [F03D 17/001](#), [F03D 17/002](#), [F03D 17/003](#), [F03D 17/004](#), [F03D 80/001](#), [F03D 80/501](#), [F03D 80/502](#), [F03D 80/504](#), [F03D 80/505](#), [F03D 80/507](#) and [F03D 80/509](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 80/501 . . {by using platforms}
- WARNING**
- Group [F03D 80/501](#) is incomplete pending reclassification of documents from groups [F03D 80/50](#), [F03D 80/55](#) and [F05B 2230/80](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 80/502 . . {of rotors or blades}
- WARNING**
- Group [F03D 80/502](#) is incomplete pending reclassification of documents from groups [F03D 80/50](#) and [F05B 2230/80](#).
- Groups [F03D 80/50](#), [F05B 2230/80](#) and [F03D 80/502](#) should be considered in order to perform a complete search.
- 80/504 . . {of powertrains, e.g. main shafts or generators}
- WARNING**
- Group [F03D 80/504](#) is incomplete pending reclassification of documents from groups [F03D 80/50](#) and [F05B 2230/80](#).
- Groups [F03D 80/50](#), [F05B 2230/80](#) and [F03D 80/504](#) should be considered in order to perform a complete search.

- 80/505 . . {Locking rotors in position}
- WARNING**
- Group [F03D 80/505](#) is incomplete pending reclassification of documents from groups [F03D 80/50](#), [F05B 2230/80](#) and [F05B 2260/31](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 80/507 . . {Retrofitting; Repurposing, i.e. reusing of wind motor parts for different purposes; Upgrading, i.e. replacing parts for improving the wind turbine performance}
- WARNING**
- Group [F03D 80/507](#) is incomplete pending reclassification of documents from groups [F03D 80/50](#) and [F05B 2230/80](#).
- Groups [F03D 80/50](#), [F05B 2230/80](#) and [F03D 80/507](#) should be considered in order to perform a complete search.
- 80/509 . . {Maintenance scheduling}
- WARNING**
- Group [F03D 80/509](#) is incomplete pending reclassification of documents from groups [F03D 80/50](#) and [F05B 2230/80](#).
- Groups [F03D 80/50](#), [F05B 2230/80](#) and [F03D 80/509](#) should be considered in order to perform a complete search.
- 80/55 . . Cleaning ([F03D 80/40](#) takes precedence)
- WARNING**
- Group [F03D 80/55](#) is impacted by reclassification into group [F03D 80/501](#).
- Groups [F03D 80/55](#) and [F03D 80/501](#) should be considered in order to perform a complete search.
- 80/60 . . Cooling or heating of wind motors
- WARNING**
- Group [F03D 80/60](#) is impacted by reclassification into groups [F03D 80/601](#) and [F03D 80/602](#).
- Groups [F03D 80/60](#), [F03D 80/601](#) and [F03D 80/602](#) should be considered in order to perform a complete search.
- 80/601 . . {using ambient airflow; Convective cooling of components}
- WARNING**
- Group [F03D 80/601](#) is incomplete pending reclassification of documents from groups [F03D 80/60](#), [F05B 2240/14](#), [F05B 2260/20](#), [F05B 2260/221](#), [F05B 2260/222](#), [F05B 2260/224](#) and [F05B 2260/2241](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 80/602 . . {Heat transfer circuits; Refrigeration circuits}
- WARNING**
- Group [F03D 80/602](#) is incomplete pending reclassification of documents from groups [F03D 80/60](#), [F05B 2240/14](#), [F05B 2260/20](#), [F05B 2260/205](#), [F05B 2260/207](#), [F05B 2260/221](#), [F05B 2260/222](#), [F05B 2260/224](#) and [F05B 2260/2241](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 80/70 . . Bearing or lubricating arrangements
- WARNING**
- Group [F03D 80/70](#) is impacted by reclassification into groups [F03D 80/701](#), [F03D 80/703](#), [F03D 80/705](#), [F03D 80/707](#) and [F03D 80/709](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 80/701 . . {Pitch or yaw bearings}
- WARNING**
- Group [F03D 80/701](#) is incomplete pending reclassification of documents from groups [F03D 7/0224](#), [F03D 15/10](#), [F03D 80/70](#), [F05B 2240/50](#), [F05B 2240/51](#), [F05B 2240/511](#), [F05B 2240/515](#), [F05B 2240/52](#), [F05B 2240/53](#), [F05B 2240/54](#) and [F05B 2260/79](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 80/703 . . {Shaft bearings}
- WARNING**
- Group [F03D 80/703](#) is incomplete pending reclassification of documents from groups [F03D 15/10](#), [F03D 80/70](#), [F05B 2240/50](#), [F05B 2240/51](#), [F05B 2240/511](#), [F05B 2240/515](#), [F05B 2240/52](#), [F05B 2240/53](#) and [F05B 2240/54](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 80/705 . . {Lubrication circuits; Lubrication delivery means}
- WARNING**
- Groups [F03D 80/705](#), [F03D 80/707](#) and [F03D 80/709](#) are incomplete pending reclassification of documents from groups [F03D 15/10](#), [F03D 80/70](#) and [F05B 2260/98](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 80/707 . . . {Gearing lubrication, e.g. gear boxes}
- 80/709 . . . {Bearing lubrication}
- 80/80 . . Arrangement of components within nacelles or towers

## F03D

80/82 . . {of electrical components}

### **WARNING**

Group [F03D 80/82](#) is impacted by reclassification into groups [F03D 80/003](#) and [F03D 80/821](#).

Groups [F03D 80/82](#), [F03D 80/003](#) and [F03D 80/821](#) should be considered in order to perform a complete search.

80/821 . . . {within nacelles}

### **WARNING**

Group [F03D 80/821](#) is incomplete pending reclassification of documents from groups [F03D 80/82](#) and [F03D 80/85](#).

Groups [F03D 80/82](#), [F03D 80/85](#) and [F03D 80/821](#) should be considered in order to perform a complete search.

80/85 . . . {Cabling}

### **WARNING**

Group [F03D 80/85](#) is impacted by reclassification into groups [F03D 80/003](#) and [F03D 80/821](#).

Groups [F03D 80/85](#), [F03D 80/003](#) and [F03D 80/821](#) should be considered in order to perform a complete search.

80/88 . . {of mechanical components}

### **WARNING**

Group [F03D 80/88](#) is impacted by reclassification into group [F03D 80/881](#).

Groups [F03D 80/88](#) and [F03D 80/881](#) should be considered in order to perform a complete search.

80/881 . . . {within nacelles}

### **WARNING**

Group [F03D 80/881](#) is incomplete pending reclassification of documents from group [F03D 80/88](#).

Groups [F03D 80/88](#) and [F03D 80/881](#) should be considered in order to perform a complete search.