

# 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)**

#### WARNING

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.

- 1/02 . having a plurality of rotors
- 1/025 . . {coaxially arranged}
- 1/04 . having stationary wind-guiding means, e.g. with shrouds or channels ([F03D 9/35](#) takes precedence)

#### WARNING

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.

- 1/041 . . {Convergent inlets, i.e. the inlet section is greater than the rotor section ([F03D 1/044](#) takes precedence)}

#### WARNING

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.

- 1/042 . . {Divergent outlets, e.g. diffusers or ejectors ([F03D 1/044](#) takes precedence)}

#### WARNING

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.

- 1/044 . . {Convergent divergent structures, e.g. venturis}

#### WARNING

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.

- 1/046 . . {comprising additional flow modifying means, e.g. vanes or turbulators}

#### WARNING

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.

- 1/048 . . . {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 2240/31](#), [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	<ul style="list-style-type: none"> <li>• {using computation methods, e.g. neural networks}</li> </ul> <p><b>WARNING</b></p> <p>Groups <a href="#">F03D 17/005</a>, <a href="#">F03D 17/006</a> and <a href="#">F03D 17/0065</a> are incomplete pending reclassification of documents from groups <a href="#">F03D 17/00</a>, <a href="#">F05B 2260/80</a>, <a href="#">F05B 2260/82</a>, <a href="#">F05B 2260/821</a>, <a href="#">F05B 2260/8211</a> and <a href="#">F05B 2260/84</a>.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	17/012	<ul style="list-style-type: none"> <li>• • {for monitoring wear or clearance}</li> </ul> <p><b>WARNING</b></p> <p>Group <a href="#">F03D 17/012</a> is incomplete pending reclassification of documents from group <a href="#">F03D 17/00</a>.</p> <p>Groups <a href="#">F03D 17/00</a> and <a href="#">F03D 17/012</a> should be considered in order to perform a complete search.</p>
17/006	<ul style="list-style-type: none"> <li>• • {Estimation methods}</li> </ul>	17/013	<ul style="list-style-type: none"> <li>• • {for detecting abnormalities or damage}</li> </ul> <p><b>WARNING</b></p> <p>Group <a href="#">F03D 17/013</a> is incomplete pending reclassification of documents from group <a href="#">F03D 17/00</a>.</p> <p>Groups <a href="#">F03D 17/00</a> and <a href="#">F03D 17/013</a> should be considered in order to perform a complete search.</p>
17/0065	<ul style="list-style-type: none"> <li>• • {for diagnostics}</li> </ul>	17/014	<ul style="list-style-type: none"> <li>• • • {indicative of a fault or failure}</li> </ul>
17/007	<ul style="list-style-type: none"> <li>• {Wind farm monitoring}</li> </ul> <p><b>WARNING</b></p> <p>Group <a href="#">F03D 17/007</a> is incomplete pending reclassification of documents from group <a href="#">F03D 17/00</a>.</p> <p>Groups <a href="#">F03D 17/00</a> and <a href="#">F03D 17/007</a> should be considered in order to perform a complete search.</p>	17/015	<ul style="list-style-type: none"> <li>• • {for monitoring vibrations}</li> </ul> <p><b>WARNING</b></p> <p>Group <a href="#">F03D 17/015</a> is incomplete pending reclassification of documents from groups <a href="#">F03D 7/0296</a>, <a href="#">F03D 17/00</a>, <a href="#">F05B 2260/80</a> and <a href="#">F05B 2270/334</a>.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
17/008	<ul style="list-style-type: none"> <li>• • {through wake analysis}</li> </ul> <p><b>WARNING</b></p> <p>Group <a href="#">F03D 17/008</a> is incomplete pending reclassification of documents from groups <a href="#">F03D 17/00</a> and <a href="#">F05B 2270/204</a>.</p> <p>Groups <a href="#">F03D 17/00</a>, <a href="#">F05B 2270/204</a> and <a href="#">F03D 17/008</a> should be considered in order to perform a complete search.</p>	17/016	<ul style="list-style-type: none"> <li>• • • {indicative of rotor imbalance}</li> </ul> <p><b>WARNING</b></p> <p>Group <a href="#">F03D 17/016</a> is incomplete pending reclassification of documents from groups <a href="#">F03D 7/0296</a> and <a href="#">F03D 17/00</a>.</p> <p>Groups <a href="#">F03D 7/0296</a>, <a href="#">F03D 17/00</a> and <a href="#">F03D 17/016</a> should be considered in order to perform a complete search.</p>
17/009	<ul style="list-style-type: none"> <li>• {characterised by the purpose}</li> </ul> <p><b>WARNING</b></p> <p>Groups <a href="#">F03D 17/009</a> and <a href="#">F03D 17/014</a> are incomplete pending reclassification of documents from groups <a href="#">F03D 17/00</a> and <a href="#">F05B 2260/80</a>.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	17/017	<ul style="list-style-type: none"> <li>• • • {Natural frequencies or oscillations}</li> </ul> <p><b>WARNING</b></p> <p>Group <a href="#">F03D 17/017</a> is incomplete pending reclassification of documents from groups <a href="#">F03D 7/0296</a> and <a href="#">F03D 17/00</a>.</p> <p>Groups <a href="#">F03D 7/0296</a>, <a href="#">F03D 17/00</a> and <a href="#">F03D 17/017</a> should be considered in order to perform a complete search.</p>
17/011	<ul style="list-style-type: none"> <li>• • {for monitoring mechanical loads or assessing fatigue; for monitoring structural integrity}</li> </ul> <p><b>WARNING</b></p> <p>Group <a href="#">F03D 17/011</a> is incomplete pending reclassification of documents from groups <a href="#">F03D 17/00</a>, <a href="#">F05B 2260/80</a>, <a href="#">F05B 2270/331</a> and <a href="#">F05B 2270/332</a>.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	17/018	<ul style="list-style-type: none"> <li>• • {for monitoring temperature}</li> </ul> <p><b>WARNING</b></p> <p>Group <a href="#">F03D 17/018</a> is incomplete pending reclassification of documents from groups <a href="#">F03D 17/00</a>, <a href="#">F05B 2270/303</a> and <a href="#">F05B 2270/3032</a>.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>

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.