

CPC**COOPERATIVE PATENT CLASSIFICATION****F03D****WIND MOTORS****NOTE**

In this subclass, the following words are used with the meanings indicated:

- "Wind motor" means a mechanism for converting the energy of natural wind into useful mechanical power, and the transmission of such power to its point of use;
- "Rotor" means the wind-engaging parts of the wind motor and the rotary member carrying them;
- "Rotations axis" means the axis of rotation of the rotor.

F03D 1/00

Wind motors with rotation axis substantially in wind direction ([controlling F03D 7/00](#))

F03D 1/001

- {Assembly thereof ([fixing wind engaging part to rotor F03D 1/0658](#)); Erecting methods; Equipments therefor ([foundations F03D 13/22](#))}

F03D 1/003

- {Maintenance or repair; Equipment therefor}

F03D 1/005

- {Transport; Equipments therefor}

F03D 1/006

- {Commisioning}

F03D 1/008

- • {Balancing static or dynamic imbalances}

F03D 1/02

- having a plurality of rotors

WARNING

Group [F03D 1/02](#) is impacted by reclassification into groups [F03D 1/04](#), [F03D 9/34](#), [F03D 9/35](#), [F03D 9/37](#), [F03D 9/39](#), [F03D 9/41](#), [F03D 9/43](#), [F03D 9/45](#) and [F03D 9/46](#).

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

F03D 1/025

- • {coaxially arranged}

WARNING

Group [F03D 1/025](#) is impacted by reclassification into groups [F03D 1/04](#), [F03D 9/34](#), [F03D 9/35](#), [F03D 9/37](#), [F03D 9/39](#), [F03D 9/41](#), [F03D 9/43](#), [F03D 9/45](#) and [F03D 9/46](#).

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

F03D 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 9/34](#), [F03D 9/35](#), [F03D 9/37](#), [F03D 9/39](#), [F03D 9/41](#), [F03D 9/43](#), [F03D 9/45](#) and [F03D 9/46](#).

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

F03D 1/06

- Rotors

- F03D 1/0608 . . {characterised by their form}
- F03D 1/0616 . . . {using the Magnus effect}
- F03D 1/0625 . . . {of the whole rotor, i.e. form features of the rotor unit}
- F03D 1/0633 . . . {of the blades}
- F03D 1/0641 {of the section profile of the blades}
- F03D 1/065 . . {characterised by their construction, i.e. structural design details
([F03D 1/001](#) takes precedence)}
- F03D 1/0658 . . . {Fixing wind-engaging parts to rotor}
- F03D 1/0666 . . . {of the whole rotor}
- F03D 1/0675 . . . {of the blades}
- F03D 1/0683 {of the section profile of the blades}
- F03D 1/0691 . . . {of the hub}

F03D 3/00

**Wind motors with rotation axis substantially at right-angles to wind direction
(controlling [F03D 7/00](#))**

- F03D 3/002 . {axis horizontal}
- F03D 3/005 . {axis vertical}
- F03D 3/007 . . {using the Magnus effect}
- F03D 3/02 . having a plurality of rotors

WARNING

Group [F03D 3/02](#) is impacted by reclassification into groups [F03D 3/04](#), [F03D 3/0409](#), [F03D 3/0418](#), [F03D 3/0427](#), [F03D 3/0436](#), [F03D 3/0445](#), [F03D 3/0454](#), [F03D 3/0463](#), [F03D 3/0472](#), [F03D 3/0481](#), [F03D 3/049](#), [F03D 9/34](#), [F03D 9/35](#), [F03D 9/37](#), [F03D 9/39](#), [F03D 9/41](#), [F03D 9/43](#), [F03D 9/45](#) and [F03D 9/46](#).

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

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

WARNING

Group [F03D 3/04](#) is impacted by reclassification into groups [F03D 9/34](#), [F03D 9/35](#), [F03D 9/37](#), [F03D 9/39](#), [F03D 9/41](#), [F03D 9/43](#), [F03D 9/45](#) and [F03D 9/46](#).

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

- F03D 3/0409 . . {having stationary guiding vanes surrounding the rotor ([F03D 3/0427](#) takes precedence)}

WARNING

Group [F03D 3/0409](#) is impacted by reclassification into groups [F03D 9/34](#), [F03D 9/35](#), [F03D 9/37](#), [F03D 9/39](#), [F03D 9/41](#), [F03D 9/43](#), [F03D 9/45](#) and [F03D 9/46](#).

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

F03D 3/0418

- . . . {the vanes being adjustable}

WARNING

Group [F03D 3/0418](#) is impacted by reclassification into groups [F03D 9/34](#), [F03D 9/35](#), [F03D 9/37](#), [F03D 9/39](#), [F03D 9/41](#), [F03D 9/43](#), [F03D 9/45](#) and [F03D 9/46](#).

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

F03D 3/0427

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

WARNING

Group [F03D 3/0427](#) is impacted by reclassification into groups [F03D 9/34](#), [F03D 9/35](#), [F03D 9/37](#), [F03D 9/39](#), [F03D 9/41](#), [F03D 9/43](#), [F03D 9/45](#) and [F03D 9/46](#).

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

F03D 3/0436

- . . {having shield means on one side of the rotor}

WARNING

Group [F03D 3/0436](#) is impacted by reclassification into groups [F03D 9/34](#), [F03D 9/35](#), [F03D 9/37](#), [F03D 9/39](#), [F03D 9/41](#), [F03D 9/43](#), [F03D 9/45](#) and [F03D 9/46](#).

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

F03D 3/0445

- . . . {fixed with respect to rotor, orientable together}

WARNING

Group [F03D 3/0445](#) is impacted by reclassification into groups [F03D 9/34](#), [F03D 9/35](#), [F03D 9/37](#), [F03D 9/39](#), [F03D 9/41](#), [F03D 9/43](#), [F03D 9/45](#) and [F03D 9/46](#).

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

F03D 3/0454

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

WARNING

Group [F03D 3/0454](#) is impacted by reclassification into groups [F03D 9/34](#), [F03D 9/35](#), [F03D 9/37](#), [F03D 9/39](#), [F03D 9/41](#), [F03D 9/43](#), [F03D 9/45](#) and [F03D 9/46](#).

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

- F03D 3/0463 {with augmenting action, i.e. the shield means intercepting an area greater than the effective rotor area}
- WARNING**
- Group [F03D 3/0463](#) is impacted by reclassification into groups [F03D 9/34](#), [F03D 9/35](#), [F03D 9/37](#), [F03D 9/39](#), [F03D 9/41](#), [F03D 9/43](#), [F03D 9/45](#) and [F03D 9/46](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- F03D 3/0472 . . . {orientable with respect to the rotor}
- WARNING**
- Group [F03D 3/0472](#) is impacted by reclassification into groups [F03D 9/34](#), [F03D 9/35](#), [F03D 9/37](#), [F03D 9/39](#), [F03D 9/41](#), [F03D 9/43](#), [F03D 9/45](#) and [F03D 9/46](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- F03D 3/0481 {and only with concentrating action, i.e. only increasing the airflow speed into the rotor ([F03D 3/049](#) takes precedence)}
- WARNING**
- Group [F03D 3/0481](#) is impacted by reclassification into groups [F03D 9/34](#), [F03D 9/35](#), [F03D 9/37](#), [F03D 9/39](#), [F03D 9/41](#), [F03D 9/43](#), [F03D 9/45](#) and [F03D 9/46](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- F03D 3/049 {with augmenting action, i.e. the shield means intercepting an area greater than the effective rotor area}
- WARNING**
- Group [F03D 3/049](#) is impacted by reclassification into groups [F03D 9/34](#), [F03D 9/35](#), [F03D 9/37](#), [F03D 9/39](#), [F03D 9/41](#), [F03D 9/43](#), [F03D 9/45](#) and [F03D 9/46](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- F03D 3/06 . . Rotor
- F03D 3/061 . . {Form}
- F03D 3/062 . . {Construction}
- F03D 3/064 . . . {Fixing wind engaging parts to rest of rotor}
- F03D 3/065 . . . {the wind engaging parts having no movement relative to the rotor during its rotation}
- F03D 3/067 . . . {the wind engaging parts having a cyclic movement relative to the rotor during its rotation}
- F03D 3/068 {the cyclic relative movement being coupled to the movement of rotation; Controlling same, e.g. according to wind direction or force}
- F03D 5/00** Other wind motors ([controlling F03D 7/00](#))
- F03D 5/005 . {Wind motors having a single vane which axis generate a conus or like surface}

F03D 5/02	<ul style="list-style-type: none"> the wind-engaging parts being attached to endless chains or the like
F03D 5/04	<ul style="list-style-type: none"> the wind-engaging parts being attached to carriages running on tracks or the like
F03D 5/06	<ul style="list-style-type: none"> the wind-engaging parts swinging to-and-fro and not rotating
F03D 7/00	Controlling wind motors
F03D 7/02	<ul style="list-style-type: none"> the wind motors having rotation axis substantially in wind direction
F03D 7/0204	<ul style="list-style-type: none"> <ul style="list-style-type: none"> {for orientation in relation to wind direction}
F03D 7/0208	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {Orientating out of wind}
F03D 7/0212	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {the rotating axis remaining horizontal}
F03D 7/0216	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {the rotating axis changing to vertical position}
F03D 7/022	<ul style="list-style-type: none"> <ul style="list-style-type: none"> {Adjusting aerodynamic properties of the blades}
F03D 7/0224	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {Adjusting blade pitch}
F03D 7/0228	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {of the blade tips only}
F03D 7/0232	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {with flaps or slats (with aerodynamic drag devices on the blades for braking F03D 7/0252)}
F03D 7/0236	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {by changing the active surface of the wind engaging parts, e.g. reefing, telescoping, furling or coning}
F03D 7/024	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {of individual blades}
F03D 7/0244	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {for braking}
F03D 7/0248	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {by mechanical means acting on the power train}
F03D 7/0252	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {with aerodynamic drag devices on the blades}
F03D 7/0256	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {Stall control (adjusting the blades in stall position F03D 7/0224)}
F03D 7/026	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {for starting-up}
F03D 7/0264	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {for stopping or in emergency situation (orientating out of wind F03D 7/0208)}
F03D 7/0268	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {Parking or storm protection}
F03D 7/0272	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {by measures acting on the electrical generator (controlling electric generator per se H02P)}
F03D 7/0276	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {Controlling rotor speed, e.g. variable speed}
F03D 7/028	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {Controlling motor output power}
F03D 7/0284	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {in relation to the state of the electric grid (supplying or distributing electric power H02J)}
F03D 7/0288	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {to prevent instantaneous damage to any part of the motor}
F03D 7/0292	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {to increase fatigue life}
F03D 7/0296	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {to prevent, counteract or reduce vibration or noise}
F03D 7/04	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Automatic control; Regulation
F03D 7/041	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {by means of a mechanical governor}
F03D 7/042	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {by means of an electrical or electronic controller}
F03D 7/043	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {characterised by the type of control logic}
F03D 7/044	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {with PID control}
F03D 7/045	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {with model-based controls}

- F03D 7/046 {with learning or adaptive control, e.g. self-tuning, fuzzy logic or neural network}
- F03D 7/047 {characterised by the controller architecture, e.g. multiple processors or data communications}
- F03D 7/048 {Controlling wind farms}
- F03D 7/06 . the wind motors having rotation axis substantially at right angle to wind direction
{(F03D 3/068 takes precedence)}

F03D 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](#))

WARNING

Group [F03D 9/00](#) is impacted by reclassification into groups [F03D 9/18](#), [F03D 9/19](#), [F03D 9/20](#), [F03D 9/22](#), [F03D 9/25](#), [F03D 9/28](#), [F03D 9/30](#), [F03D 9/32](#), [F03D 9/34](#), [F03D 9/35](#), [F03D 9/37](#), [F03D 9/39](#), [F03D 9/41](#), [F03D 9/43](#), [F03D 9/45](#), [F03D 9/46](#), [F03D 9/48](#) and [H02S 10/12](#).

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

- F03D 9/001 . {the apparatus being a pump or compressor; Producing under- or overpressure ([F03D 9/17](#) takes precedence)}

WARNING

Group [F03D 9/001](#) is impacted by reclassification into group [H02S 10/12](#). Groups [F03D 9/001](#) and [H02S 10/12](#) should be considered in order to perform a complete search.

- F03D 9/002 . {the apparatus being an electrical generator ([F03D 9/11](#) takes precedence; details of electrical generators specifically adapted to wind turbines [H02K 7/183](#))}

WARNING

Group [F03D 9/002](#) is impacted by reclassification into group [H02S 10/12](#). Groups [F03D 9/002](#) and [H02S 10/12](#) should be considered in order to perform a complete search.

- F03D 9/003 . . {connected to an electrical general supply grid; Arrangements therefor}

WARNING

Group [F03D 9/003](#) is impacted by reclassification into group [H02S 10/12](#).

Groups [F03D 9/003](#) and [H02S 10/12](#) should be considered in order to perform a complete search.

F03D 9/005

- • • {the wind motor being part of a wind farm}

WARNING

Group [F03D 9/005](#) is impacted by reclassification into group [H02S 10/12](#).

Groups [F03D 9/005](#) and [H02S 10/12](#) should be considered in order to perform a complete search.

F03D 9/006

- {Adaptations for producing heat, e.g. in heat pump systems}

WARNING

Group [F03D 9/006](#) is impacted by reclassification into group [H02S 10/12](#).

Groups [F03D 9/006](#) and [H02S 10/12](#) should be considered in order to perform a complete search.

F03D 9/007

- {the wind motor being combined with means for converting solar radiation into useful energy}

WARNING

Group [F03D 9/007](#) is impacted by reclassification into group [H02S 10/12](#).

Groups [F03D 9/007](#) and [H02S 10/12](#) should be considered in order to perform a complete search..

F03D 9/008

- {the wind motor being combined with water energy converters, e.g. a water turbine}

WARNING

Group [F03D 9/008](#) is impacted by reclassification into group [H02S 10/12](#).

Groups [F03D 9/008](#) and [H02S 10/12](#) should be considered in order to perform a complete search.

F03D 9/10

- Combinations of wind motors with apparatus storing energy

WARNING

Group [F03D 9/10](#) is impacted by reclassification into groups [F03D 9/11](#), [F03D 9/12](#), [F03D 9/13](#), [F03D 9/14](#), [F03D 9/16](#), [F03D 9/17](#), [F03D 9/18](#), [F03D 9/19](#) and [H02S 10/12](#).

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

F03D 9/11

- • storing electrical energy

WARNING

Group [F03D 9/11](#) is impacted by reclassification into group [H02S 10/12](#).

Groups [F03D 9/11](#) and [H02S 10/12](#) should be considered in order to perform a complete search.

F03D 9/12

- storing kinetic energy, e.g. using flywheels

WARNING

Group [F03D 9/12](#) is incomplete pending reclassification of documents from group [F03D 9/10](#).

Groups [F03D 9/10](#) and [F03D 9/12](#) should be considered in order to perform a complete search.

F03D 9/13

- storing gravitational potential energy

WARNING

Group [F03D 9/13](#) is impacted by reclassification into group [H02S 10/12](#).

Groups [F03D 9/13](#) and [H02S 10/12](#) should be considered in order to perform a complete search.

F03D 9/14

- using liquids

WARNING

Group [F03D 9/14](#) is impacted by reclassification into group [H02S 10/12](#).

Groups [F03D 9/14](#) and [H02S 10/12](#) should be considered in order to perform a complete search.

F03D 9/16

- using weights

WARNING

Group [F03D 9/16](#) is impacted by reclassification into group [H02S 10/12](#).

Groups [F03D 9/16](#) and [H02S 10/12](#) should be considered in order to perform a complete search.

F03D 9/17

- storing energy in pressurised fluids

WARNING

Group [F03D 9/17](#) is impacted by reclassification into group [H02S 10/12](#).

Groups [F03D 9/17](#) and [H02S 10/12](#) should be considered in order to perform a complete search.

F03D 9/18

- storing heat

WARNING

Group [F03D 9/18](#) is incomplete pending reclassification of documents from group [F03D 9/00](#) and [F03D 9/10](#).

Groups [F03D 9/00](#), [F03D 9/10](#) and [F03D 9/18](#) should be considered in order to perform a complete search.

F03D 9/19

- storing chemical energy, e.g. using electrolysis

WARNING

Group [F03D 9/19](#) is incomplete pending reclassification of documents from group [F03D 9/00](#) and [F03D 9/10](#).

Groups [F03D 9/00](#), [F03D 9/10](#) and [F03D 9/19](#) should be considered in order to perform a complete search.

F03D 9/20

- Wind motors characterised by the driven apparatus ([F03D 9/10](#) takes precedence)

WARNING

Group [F03D 9/20](#) is incomplete pending reclassification of documents from group [F03D 9/00](#).

Groups [F03D 9/00](#) and [F03D 9/20](#) should be considered in order to perform a complete search.

F03D 9/22

- the apparatus producing heat

WARNING

Group [F03D 9/22](#) is incomplete pending reclassification of documents from group [F03D 9/00](#).

Groups [F03D 9/00](#) and [F03D 9/22](#) should be considered in order to perform a complete search.

F03D 9/25

- the apparatus being an electrical generator ([F03D 9/22](#) takes precedence)

WARNING

Group [F03D 9/25](#) is incomplete pending reclassification of documents from group [F03D 9/00](#).

Groups [F03D 9/00](#) and [F03D 9/25](#) should be considered in order to perform a complete search.

F03D 9/28

- the apparatus being a pump or a compressor

WARNING

Group [F03D 9/28](#) is incomplete pending reclassification of documents from group [F03D 9/00](#).

Groups [F03D 9/00](#) and [F03D 9/28](#) should be considered in order to perform a complete search.

F03D 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 incomplete pending reclassification of documents from group [F03D 9/00](#).

Groups [F03D 9/00](#) and [F03D 9/30](#) should be considered in order to perform a complete search.

F03D 9/32

- • on moving objects, e.g. vehicles

WARNING

Group [F03D 9/32](#) is incomplete pending reclassification of documents from group [B60K 16/00](#) and [F03D 9/00](#).

Groups [B60K 16/00](#), [F03D 9/00](#) and [F03D 9/32](#) should be considered in order to perform a complete search.

F03D 9/34

- • on stationary objects or on stationary man-made structures

WARNING

Group [F03D 9/34](#) is incomplete pending reclassification of documents from group [F03D 1/02](#), [F03D 1/025](#), [F03D 1/04](#), [F03D 3/02](#), [F03D 3/04](#), [F03D 3/0409](#), [F03D 3/0418](#), [F03D 3/0427](#), [F03D 3/0436](#), [F03D 3/0445](#), [F03D 3/0454](#), [F03D 3/0463](#), [F03D 3/0472](#), [F03D 3/0481](#), [F03D 3/049](#) and [F03D 9/00](#).

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

F03D 9/35

- • • within towers, e.g. using chimney effects

WARNING

Group [F03D 9/35](#) is incomplete pending reclassification of documents from group [F03D 1/02](#), [F03D 1/025](#), [F03D 1/04](#), [F03D 3/02](#), [F03D 3/04](#), [F03D 3/0409](#), [F03D 3/0418](#), [F03D 3/0427](#), [F03D 3/0436](#), [F03D 3/0445](#), [F03D 3/0454](#), [F03D 3/0463](#), [F03D 3/0472](#), [F03D 3/0481](#), [F03D 3/049](#) and [F03D 9/00](#).

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

F03D 9/37

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

WARNING

Group [F03D 9/37](#) is incomplete pending reclassification of documents from group [F03D 1/02](#), [F03D 1/025](#), [F03D 1/04](#), [F03D 3/02](#), [F03D 3/04](#), [F03D 3/0409](#), [F03D 3/0418](#), [F03D 3/0427](#), [F03D 3/0436](#), [F03D 3/0445](#), [F03D 3/0454](#), [F03D 3/0463](#), [F03D 3/0472](#), [F03D 3/0481](#), [F03D 3/049](#) and [F03D 9/00](#).

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

F03D 9/39

- • • • • by circulation or vortex formation

WARNING

Group [F03D 9/39](#) is incomplete pending reclassification of documents from group [F03D 1/02](#), [F03D 1/025](#), [F03D 1/04](#), [F03D 3/02](#), [F03D 3/04](#), [F03D 3/0409](#), [F03D 3/0418](#), [F03D 3/0427](#), [F03D 3/0436](#), [F03D 3/0445](#), [F03D 3/0454](#), [F03D 3/0463](#), [F03D 3/0472](#), [F03D 3/0481](#), [F03D 3/049](#) and [F03D 9/00](#).

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

F03D 9/41

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

WARNING

Group [F03D 9/41](#) is incomplete pending reclassification of documents from group [F03D 1/02](#), [F03D 1/025](#), [F03D 1/04](#), [F03D 3/02](#), [F03D 3/04](#), [F03D 3/0409](#), [F03D 3/0418](#), [F03D 3/0427](#), [F03D 3/0436](#), [F03D 3/0445](#), [F03D 3/0454](#), [F03D 3/0463](#), [F03D 3/0472](#), [F03D 3/0481](#), [F03D 3/049](#) and [F03D 9/00](#).

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

F03D 9/43

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

WARNING

Group [F03D 9/43](#) is incomplete pending reclassification of documents from group [F03D 1/02](#), [F03D 1/025](#), [F03D 1/04](#), [F03D 3/02](#), [F03D 3/04](#), [F03D 3/0409](#), [F03D 3/0418](#), [F03D 3/0427](#), [F03D 3/0436](#), [F03D 3/0445](#), [F03D 3/0454](#), [F03D 3/0463](#), [F03D 3/0472](#), [F03D 3/0481](#), [F03D 3/049](#) and [F03D 9/00](#).

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

F03D 9/45

- Building formations

WARNING

Group [F03D 9/45](#) is incomplete pending reclassification of documents from group [F03D 1/02](#), [F03D 1/025](#), [F03D 1/04](#), [F03D 3/02](#), [F03D 3/04](#), [F03D 3/0409](#), [F03D 3/0418](#), [F03D 3/0427](#), [F03D 3/0436](#), [F03D 3/0445](#), [F03D 3/0454](#), [F03D 3/0463](#), [F03D 3/0472](#), [F03D 3/0481](#), [F03D 3/049](#) and [F03D 9/00](#).

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

F03D 9/46

- Tunnels or streets

WARNING

Group [F03D 9/46](#) is incomplete pending reclassification of documents from group [F03D 1/02](#), [F03D 1/025](#), [F03D 1/04](#), [F03D 3/02](#), [F03D 3/04](#), [F03D 3/0409](#), [F03D 3/0418](#), [F03D 3/0427](#), [F03D 3/0436](#), [F03D 3/0445](#), [F03D 3/0454](#), [F03D 3/0463](#), [F03D 3/0472](#), [F03D 3/0481](#), [F03D 3/049](#) and [F03D 9/00](#).

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

F03D 9/48

- using landscape topography, e.g. valleys

WARNING

Group [F03D 9/48](#) is incomplete pending reclassification of documents from group [F03D 9/00](#).

Groups [F03D 9/00](#) and [F03D 9/48](#) should be considered in order to perform a complete search.

F03D 13/00

Assembly, mounting or commissioning of wind motors; Arrangements specially adapted for transporting wind motor components

WARNING

Group [F03D 13/00](#) is incomplete pending reclassification of documents from group [F03D 80/00](#).

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

F03D 13/10

- Assembly of wind motors; Arrangements for erecting wind motors

WARNING

Group [F03D 13/10](#) is incomplete pending reclassification of documents from group [F03D 80/00](#).

Groups [F03D 80/00](#) and [F03D 13/10](#) should be considered in order to perform a complete search.

F03D 13/20

- Arrangements for mounting or supporting wind motors; Masts or towers for wind motors

WARNING

Group [F03D 13/20](#) is impacted by reclassification into groups [F03D 13/22](#) and [F03D 13/25](#).

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

F03D 13/22

- {Foundations specially adapted for wind motors}

WARNING

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

Groups [F03D 13/20](#) and [F03D 13/22](#) should be considered in order to perform a complete search.

F03D 13/25

- specially adapted for offshore installation

WARNING

Group [F03D 13/25](#) is incomplete pending reclassification of documents from group [F03D 13/20](#).

Groups [F03D 13/20](#) and [F03D 13/25](#) should be considered in order to perform a complete search.

F03D 13/30

- Commissioning, e.g. inspection, testing or final adjustment before releasing for production

WARNING

Group [F03D 13/30](#) is incomplete pending reclassification of documents from group [F03D 80/00](#).

Groups [F03D 80/00](#) and [F03D 13/30](#) should be considered in order to perform a complete search.

F03D 13/35

- • Balancing static or dynamic imbalances

WARNING

Group [F03D 13/35](#) is incomplete pending reclassification of documents from group [F03D 80/00](#).

Groups [F03D 80/00](#) and [F03D 13/35](#) should be considered in order to perform a complete search.

F03D 13/40

- Arrangements or methods specially adapted for transporting wind motor components

WARNING

Group [F03D 13/40](#) is incomplete pending reclassification of documents from group [F03D 80/00](#).

Groups [F03D 80/00](#) and [F03D 13/40](#) should be considered in order to perform a complete search.

F03D 15/00

Transmission of mechanical power**WARNING**

Group [F03D 15/00](#) is impacted by reclassification into groups [F03D 15/10](#), [F03D 15/15](#) and [F03D 15/20](#).

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

F03D 15/05

- {using hollow exhausting blades}

F03D 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](#).

Groups [F03D 15/00](#) and [F03D 15/10](#) should be considered in order to perform a complete search.

F03D 15/15

- • {Changing or adjusting stroke}

WARNING

Group [F03D 15/15](#) is incomplete pending reclassification of documents from group [F03D 15/00](#).

Groups [F03D 15/00](#) and [F03D 15/15](#) should be considered in order to perform a complete search.

F03D 15/20

- Gearless transmission, i.e. direct-drive

WARNING

Group [F03D 15/20](#) is incomplete pending reclassification of documents from group [F03D 15/00](#).

Groups [F03D 15/00](#) and [F03D 15/20](#) should be considered in order to perform a complete search.

F03D 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 incomplete pending reclassification of documents from group [F03D 80/00](#).

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

F03D 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 13/00](#), [F03D 13/10](#), [F03D 13/30](#), [F03D 13/35](#), [F03D 13/40](#), [F03D 17/00](#), [F03D 80/10](#), [F03D 80/20](#), [F03D 80/30](#), [F03D 80/40](#), [F03D 80/50](#), [F03D 80/55](#), [F03D 80/60](#), [F03D 80/70](#), [F03D 80/80](#), [F03D 80/82](#), [F03D 80/85](#) and [F03D 80/88](#).

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

F03D 80/10

- Arrangements for warning air traffic

WARNING

Group [F03D 80/10](#) is incomplete pending reclassification of documents from group [F03D 80/00](#).

Groups [F03D 80/00](#) and [F03D 80/10](#) should be considered in order to perform a complete search.

F03D 80/20

- Arrangements for avoiding shadow flicker

WARNING

Group [F03D 80/20](#) is incomplete pending reclassification of documents from group [F03D 80/00](#).

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

F03D 80/30

- Lightning protection

WARNING

Group [F03D 80/30](#) is incomplete pending reclassification of documents from group [F03D 80/00](#).

Groups [F03D 80/00](#) and [F03D 80/30](#) should be considered in order to perform a complete search.

F03D 80/40

- Ice detection; De-icing means

WARNING

Group [F03D 80/40](#) is incomplete pending reclassification of documents from group [F03D 80/00](#).

Groups [F03D 80/00](#) and [F03D 80/40](#) should be considered in order to perform a complete search.

F03D 80/50

- Maintenance or repair

WARNING

Group [F03D 80/50](#) is incomplete pending reclassification of documents from group [F03D 80/00](#).

Groups [F03D 80/00](#) and [F03D 80/50](#) should be considered in order to perform a complete search.

F03D 80/55

- • Cleaning ([F03D 80/40](#) takes precedence)

WARNING

Group [F03D 80/55](#) is incomplete pending reclassification of documents from group [F03D 80/00](#).

Groups [F03D 80/00](#) and [F03D 80/55](#) should be considered in order to perform a complete search.

F03D 80/60

- Cooling or heating of wind motors

WARNING

Group [F03D 80/60](#) is incomplete pending reclassification of documents from group [F03D 80/00](#).

Groups [F03D 80/00](#) and [F03D 80/60](#) should be considered in order to perform a complete search.

F03D 80/70

- Bearing or lubricating arrangements

WARNING

Group [F03D 80/70](#) is incomplete pending reclassification of documents from group [F03D 80/00](#).

Groups [F03D 80/00](#) and [F03D 80/70](#) should be considered in order to perform a complete search.

F03D 80/80

- Arrangement of components within nacelles or towers

WARNING

Group [F03D 80/80](#) is incomplete pending reclassification of documents from group [F03D 80/00](#).

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

F03D 80/82

- . . {of electrical components}

WARNING

Group [F03D 80/82](#) is incomplete pending reclassification of documents from group [F03D 80/00](#).

Groups [F03D 80/00](#) and [F03D 80/82](#) should be considered in order to perform a complete search.

F03D 80/85

- . . . {Cabling}

WARNING

Group [F03D 80/85](#) is incomplete pending reclassification of documents from group [F03D 80/00](#).

Groups [F03D 80/00](#) and [F03D 80/85](#) should be considered in order to perform a complete search.

F03D 80/88

- . . {of mechanical components}

WARNING

Group [F03D 80/88](#) is incomplete pending reclassification of documents from group [F03D 80/00](#).

Groups [F03D 80/00](#) and [F03D 80/88](#) should be considered in order to perform a complete search.