

Symbol	Typ	Titel
F	Sektion	MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING
F03	Klasse	MACHINES OR ENGINES FOR LIQUIDS; WIND, SPRING, OR WEIGHT MOTORS; PRODUCING MECHANICAL POWER OR A REACTIVE PROPULSIVE THRUST, NOT OTHERWISE PROVIDED FOR
F03D	Unterklasse	WIND MOTORS
F03D 1/00	Hauptgruppe	Wind motors with rotation axis substantially parallel to the air flow entering the rotor (controlling thereof F03D 7/02) [1, 2006.01]
F03D 1/02	1-Punkt Untergruppe	. having a plurality of rotors [1, 2006.01]
F03D 1/04	1-Punkt Untergruppe	. having stationary wind-guiding means, e.g. with shrouds or channels (F03D 9/35 takes precedence) [1, 2006.01]
F03D 1/06	1-Punkt Untergruppe	. Rotors [1, 2006.01]
F03D 3/00	Hauptgruppe	Wind motors with rotation axis substantially perpendicular to the air flow entering the rotor (controlling thereof F03D 7/06) [1, 2006.01]
F03D 3/02	1-Punkt Untergruppe	. having a plurality of rotors [1, 2006.01]
F03D 3/04	1-Punkt Untergruppe	. having stationary wind-guiding means, e.g. with shrouds or channels (F03D 9/35 takes precedence) [1, 2006.01]
F03D 3/06	1-Punkt Untergruppe	. Rotors [1, 2006.01]
F03D 5/00	Hauptgruppe	Other wind motors (controlling thereof F03D 7/00) [1, 2006.01]
F03D 5/02	1-Punkt Untergruppe	. the wind-engaging parts being attached to endless chains or the like [1, 2006.01]
F03D 5/04	1-Punkt Untergruppe	. the wind-engaging parts being attached to carriages running on tracks or the like [1, 2006.01]
F03D 5/06	1-Punkt Untergruppe	. the wind-engaging parts swinging to-and-fro and not rotating [1, 2006.01]
F03D 7/00	Hauptgruppe	Controlling wind motors (supplying or distributing electrical power H02), 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) [1, 2006.01]
F03D 7/02	1-Punkt Untergruppe	. the wind motors having rotation axis substantially parallel to the air flow entering the rotor [1, 2006.01]
F03D 7/04	2-Punkt Untergruppe	... Automatic control; Regulation [1, 2006.01]
F03D 7/06	1-Punkt Untergruppe	. the wind motors having rotation axis substantially perpendicular to the air flow entering the rotor [1, 2006.01]
F03D 9/00	Hauptgruppe	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) [1, 2006.01, 2016.01]
F03D 9/10	1-Punkt Untergruppe	. Combinations of wind motors with apparatus storing energy [2016.01]
F03D 9/11	2-Punkt Untergruppe	... storing electrical energy [2016.01]
F03D 9/12	2-Punkt Untergruppe	... storing kinetic energy, e.g. using flywheels [2016.01]
F03D 9/13	2-Punkt Untergruppe	... storing gravitational potential energy [2016.01]
F03D 9/14	3-Punkt Untergruppe	... using liquids [2016.01]
F03D 9/16	3-Punkt Untergruppe	... using weights [2016.01]
F03D 9/17	2-Punkt Untergruppe	... storing energy in pressurised fluids [2016.01]

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F03D 9/18	2-Punkt Untergruppe	... storing heat [2016.01]
F03D 9/19	2-Punkt Untergruppe	... storing chemical energy, e.g. using electrolysis [2016.01]
F03D 9/20	1-Punkt Untergruppe	. Wind motors characterised by the driven apparatus (F03D 9/10 takes precedence) [2016.01]
F03D 9/22	2-Punkt Untergruppe	... the apparatus producing heat [2016.01]
F03D 9/25	2-Punkt Untergruppe	... the apparatus being an electrical generator (F03D 9/22 takes precedence) [2016.01]
F03D 9/28	2-Punkt Untergruppe	... the apparatus being a pump or a compressor [2016.01]
F03D 9/30	1-Punkt Untergruppe	. Wind motors specially adapted for installation in particular locations (means for mounting or supporting wind motors F03D 13/20) [2016.01]
F03D 9/32	2-Punkt Untergruppe	... on moving objects, e.g. vehicles [2016.01]
F03D 9/34	2-Punkt Untergruppe	... on stationary objects or on stationary man-made structures [2016.01]
F03D 9/35	3-Punkt Untergruppe	... within towers, e.g. using chimney effects [2016.01]
F03D 9/37	4-Punkt Untergruppe with means for enhancing the air flow within the tower, e.g. by heating [2016.01]
F03D 9/39	5-Punkt Untergruppe by circulation or vortex formation [2016.01]
F03D 9/41	5-Punkt Untergruppe by using the wind outside the tower, e.g. using ejectors [2016.01]
F03D 9/43	3-Punkt Untergruppe	... using infrastructure primarily used for other purposes, e.g. masts for overhead railway power lines [2016.01]
F03D 9/45	4-Punkt Untergruppe Building formations [2016.01]
F03D 9/46	4-Punkt Untergruppe Tunnels or streets [2016.01]
F03D 9/48	2-Punkt Untergruppe	... using landscape topography, e.g. valleys [2016.01]
F03D 13/00	Hauptgruppe	Assembly, mounting or commissioning of wind motors; Arrangements specially adapted for transporting wind motor components [2016.01]
F03D 13/10	1-Punkt Untergruppe	. Assembly of wind motors; Arrangements for erecting wind motors [2016.01]
F03D 13/20	1-Punkt Untergruppe	. Arrangements for mounting or supporting wind motors; Masts or towers for wind motors [2016.01]
F03D 13/25	2-Punkt Untergruppe	... specially adapted for offshore installation [2016.01]
F03D 13/30	1-Punkt Untergruppe	. Commissioning, e.g. inspection, testing or final adjustment before releasing for production [2016.01]
F03D 13/35	2-Punkt Untergruppe	... Balancing static or dynamic imbalances [2016.01]
F03D 13/40	1-Punkt Untergruppe	. Arrangements or methods specially adapted for transporting wind motor components [2016.01]
F03D 15/00	Hauptgruppe	Transmission of mechanical power [2016.01]
F03D 15/10	1-Punkt Untergruppe	. using gearing not limited to rotary motion, e.g. with oscillating or reciprocating members [2016.01]
F03D 15/20	1-Punkt Untergruppe	. Gearless transmission, i.e. direct-drive [2016.01]
F03D 17/00	Hauptgruppe	Monitoring or testing of wind motors, e.g. diagnostics (testing during commissioning of wind motors F03D 13/30) [2016.01]
F03D 80/00	Hauptgruppe	Details, components or accessories not provided for in groups F03D 1/00-F03D 17/00 [2016.01]
F03D 80/10	1-Punkt Untergruppe	. Arrangements for warning air traffic [2016.01]
F03D 80/20	1-Punkt Untergruppe	. Arrangements for avoiding shadow flicker [2016.01]

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F03D 80/30	1-Punkt Untergruppe	. Lightning protection [2016.01]
F03D 80/40	1-Punkt Untergruppe	. Ice detection; De-icing means [2016.01]
F03D 80/50	1-Punkt Untergruppe	. Maintenance or repair [2016.01]
F03D 80/55	2-Punkt Untergruppe	.. Cleaning (F03D 80/40 takes precedence) [2016.01]
F03D 80/60	1-Punkt Untergruppe	. Cooling or heating of wind motors [2016.01]
F03D 80/70	1-Punkt Untergruppe	. Bearing or lubricating arrangements [2016.01]
F03D 80/80	1-Punkt Untergruppe	. Arrangement of components within nacelles or towers [2016.01]