### 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

F03G SPRING, WEIGHT, INERTIA OR LIKE MOTORS; MECHANICAL-POWER PRODUCING DEVICES OR MECHANISMS, NOT OTHERWISE PROVIDED FOR OR USING ENERGY SOURCES NOT OTHERWISE PROVIDED FOR (arrangements in connection with power supply in vehicles from force of nature B60K 16/00; electric propulsion with power supply in vehicles from force of nature B60L 8/00)

### **NOTE**

In this subclass, the following term is used with the meaning indicated:

• "motors" means mechanisms for producing mechanical power from potential energy of solid bodies.

1/00 Spring motors (spring-driven toys A63H; springs in general F16F; precision time mechanisms, e.g. for clocks or watches, G04B)

 1/02 • characterised by shape or material of spring, e.g. helical, spiral, coil

### **WARNING**

Group <u>F03G 1/02</u> is impacted by reclassification into groups <u>F03G 1/022</u>, <u>F03G 1/024</u>, <u>F03G 1/026</u>, <u>F03G 1/028</u>, <u>F03G 1/029</u> and <u>F03G 1/032</u>.

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

1/022 . . {using spiral springs}

### **WARNING**

Group <u>F03G 1/022</u> is incomplete pending reclassification of documents from group <u>F03G 1/02</u>.

Groups F03G 1/02 and F03G 1/022 should be considered in order to perform a complete search.

1/024 . . {using helical springs}

### WARNING

Group <u>F03G 1/024</u> is incomplete pending reclassification of documents from group <u>F03G 1/02</u>.

Groups F03G 1/02 and F03G 1/024 should be considered in order to perform a complete search.

1/026 . . {using torsion springs}

### WARNING

Group <u>F03G 1/026</u> is incomplete pending reclassification of documents from group F03G 1/02.

Groups F03G 1/02 and F03G 1/026 should be considered in order to perform a complete search.

1/028 . . {using leaf springs}

### **WARNING**

Group <u>F03G 1/028</u> is incomplete pending reclassification of documents from group <u>F03G 1/02</u>.

Groups F03G 1/02 and F03G 1/028 should be considered in order to perform a complete search.

1/029 . . {using two or more springs}

### WARNING

Group <u>F03G 1/029</u> is incomplete pending reclassification of documents from group <u>F03G 1/02</u>.

Groups F03G 1/02 and F03G 1/029 should be considered in order to perform a complete search.

1/032 • • {using bimetals}

### **WARNING**

Group <u>F03G 1/032</u> is incomplete pending reclassification of documents from group F03G 1/02.

Groups F03G 1/02 and F03G 1/032 should be considered in order to perform a complete search.

3/097 1/04 . . using rubber springs . {Motors specially adapted for creating a . Other parts or details reciprocating movement, e.g. by rotating eccentric 1/06 masses } 1/08 . . for winding 1/10 . . for producing output movement other than rotary, WARNING e.g. vibratory Group F03G 3/097 is incomplete pending 3/00 Other motors, e.g. gravity or inertia motors reclassification of documents from group F03G 3/00. WARNING Groups F03G 3/00 and F03G 3/097 should Group F03G 3/00 is impacted by reclassification be considered in order to perform a complete into groups F03G 3/087, F03G 3/091, F03G 3/094, F03G 3/096 and F03G 3/097. 4/00 Devices for producing mechanical power from All groups listed in this Warning should be geothermal energy considered in order to perform a complete search. WARNING 3/02 . using wheels with circumferentially-arranged compartments co-operating with solid falling bodies Groups F03G 4/00, F03G 4/001, F03G 4/02, F03G 4/023, F03G 4/026, F03G 4/029, (<u>F03G 3/04</u> takes precedence) F03G 4/031, F03G 4/033, F03G 4/035, 3/04 driven by sand or like fluent solid material F03G 4/037, F03G 4/04, F03G 4/045, F03G 4/06, 3/06 . using pendulums F03G 4/063, F03G 4/066, F03G 4/069, 3/08 . using flywheels F03G 4/072 and F03G 4/074 are incomplete WARNING pending reclassification of documents from group F03G 7/04. Group F03G 3/08 is impacted by reclassification into group F03G 3/083. All groups listed in this Warning should be considered in order to perform a complete search. Groups F03G 3/08 and F03G 3/083 should be considered in order to perform a complete 4/001 {Binary cycle plants where the source fluid from the search. geothermal collector heats the working fluid via a heat exchanger} 3/083 . . {deviating the flywheel axis, e.g. using 4/02 . with direct {working} fluid contact gyroscopic effects like precession or nutation} 4/023 • {characterised by the geothermal collectors} WARNING 4/026 • • {open loop geothermal collectors} Group <u>F03G 3/083</u> is incomplete pending 4/029 {closed loop geothermal collectors, i.e. the reclassification of documents from group fluid is pumped through a closed loop in heat F03G 3/08. exchange with the geothermal source, e.g. via a Groups F03G 3/08 and F03G 3/083 should heat exchanger} be considered in order to perform a complete 4/031 • {using waste heat from a primary power cycle to search. produce mechanical power in a second cycle} 4/033 • {having a Rankine cycle} 3/087 • {Gravity or weight motors (using solid falling • {of the Organic Rankine Cycle [ORC] type or the 4/035 bodies F03G 3/02; using sand or the like Kalina Cycle type} F03G 3/04)} 4/037 • {having other power cycles, e.g. Stirling, **WARNING** transcritical or supercritical cycles; combined with other power sources, e.g. wind, gas or nuclear} Groups F03G 3/087, F03G 3/091 and 4/04 . with deep-well turbo pump F03G 3/094 are incomplete pending • {with heat pumps} 4/045 reclassification of documents from group . with fluid flashing F03G 3/00. 4/06 4/063 • {with energy storage devices} All groups listed in this Warning should be 4/066 • • {of the non-thermal type, e.g. springs or considered in order to perform a complete batteries } search. 4/069 • {characterised by the brine or scale treatment, 3/091 . . {using unbalanced wheels} e.g. brine desalination, scale deposit prevention or 3/094 . . {specially adapted for potential energy power corrosion-proofing} storage stations; combinations of gravity or 4/072 • {Controlling or monitoring} weight motors with electric motors or generators} 4/074 • {Safety arrangements} 3/096 • {adapted for pumping or conveying fluids} WARNING Group F03G 3/096 is incomplete pending reclassification of documents from group F03G 3/00. Groups F03G 3/00 and F03G 3/096 should

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be considered in order to perform a complete

# 5/00 Devices for producing mechanical power from muscle energy (driving cycles <u>B62M</u>)

### WARNING

Group <u>F03G 5/00</u> is impacted by reclassification into groups <u>F03G 5/086</u>, <u>F03G 5/089</u>, <u>F03G 5/092</u>, <u>F03G 5/095</u>, <u>F03G 5/098</u> and <u>F03G 5/103</u>.

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

5/02 . of endless-walk type, e.g. treadmills

5/025 . . {Treadmills (for animals <u>F03G 5/04</u>)}

5/04 . . Horsemills or the like

5/042 • • {Traction devices, shock absorbers or whipping devices for horsemills}

5/045 . . . {Security devices for horsemills}

5/047 . . . {Transmissions or couplings for horsemills}

5/06 • other than of endless-walk type

### WARNING

Group <u>F03G 5/06</u> is impacted by reclassification into groups <u>F03G 5/061</u>, <u>F03G 5/062</u>, <u>F03G 5/063</u>, <u>F03G 5/064</u>, <u>F03G 5/065</u> and <u>F03G 5/066</u>.

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

### 5/061 . . {driven by animals}

### WARNING

Group <u>F03G 5/061</u> is incomplete pending reclassification of documents from group F03G 5/06.

Groups <u>F03G 5/06</u> and <u>F03G 5/061</u> should be considered in order to perform a complete search.

### 5/062 • • {driven by humans}

### WARNING

Groups F03G 5/062, F03G 5/063, F03G 5/064, F03G 5/065 and F03G 5/066 are incomplete pending reclassification of documents from group F03G 5/06.

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

5/063 . . . {operated by the leg or foot}

5/064 . . . . {using a bicycle or a bicycle pedal, e.g. pedal generators}

5/065 . . . { operated by the hand}

5/066 • • • { of the motor-generator type, e.g. the generator is also usable as an electric motor}

 for combined actuation by different limbs, e.g. hand and leg 5/086 • {using flywheels}

### WARNING

Group <u>F03G 5/086</u> is incomplete pending reclassification of documents from group <u>F03G 5/00</u>.

Groups F03G 5/00 and F03G 5/086 should be considered in order to perform a complete search.

### 5/089 • {using pendulums}

### WARNING

Group F03G 5/089 is incomplete pending reclassification of documents from group F03G 5/00.

Groups <u>F03G 5/00</u> and <u>F03G 5/089</u> should be considered in order to perform a complete search.

### 5/092 • {using centrifugal or centripetal forces}

### WARNING

Group F03G 5/092 is incomplete pending reclassification of documents from group F03G 5/00.

Groups <u>F03G 5/00</u> and <u>F03G 5/092</u> should be considered in order to perform a complete search.

### 5/095 • {with potential energy storage}

### WARNING

Group <u>F03G 5/095</u> is incomplete pending reclassification of documents from group <u>F03G 5/00</u>.

Groups <u>F03G 5/00</u> and <u>F03G 5/095</u> should be considered in order to perform a complete search.

### 5/098 • {for pumping}

### WARNING

Group <u>F03G 5/098</u> is incomplete pending reclassification of documents from group <u>F03G 5/00</u>.

Groups <u>F03G 5/00</u> and <u>F03G 5/098</u> should be considered in order to perform a complete search.

### 5/103 • {using springs}

### WARNING

Group <u>F03G 5/103</u> is incomplete pending reclassification of documents from group <u>F03G 5/00</u>.

Groups <u>F03G 5/00</u> and <u>F03G 5/103</u> should be considered in order to perform a complete search.

6/00 Devices for producing mechanical power from solar energy (solar boilers <u>F24</u>)

#### WARNING

Group <u>F03G 6/00</u> is impacted by reclassification into groups <u>F03G 6/002</u>, <u>F03G 6/0055</u>, <u>F03G 6/071</u>, <u>F03G 6/074</u>, <u>F03G 6/083</u>, <u>F03G 6/089</u>, <u>F03G 6/092</u>, <u>F03G 6/098</u>, <u>F03G 6/108</u>, <u>F03G 6/111</u>, <u>F03G 6/114</u>, <u>F03G 6/117</u>, <u>F03G 6/121</u>, <u>F03G 6/124</u>, <u>F03G 6/127</u> and <u>F03G 6/129</u>.

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

6/001 • {having photovoltaic cells}

6/002 • {with expansion and contraction elements}

#### WARNING

Group <u>F03G 6/002</u> is incomplete pending reclassification of documents from group <u>F03G 6/00</u>.

Groups F03G 6/00 and F03G 6/002 should be considered in order to perform a complete search.

6/003 • {having a Rankine cycle (<u>F03G 6/065</u> takes precedence)}

### WARNING

Group F03G 6/003 is impacted by reclassification into group F03G 6/004.

Groups F03G 6/003 and F03G 6/004 should be considered in order to perform a complete search.

6/004 • • {of the Organic Rankine Cycle [ORC] type or the Kalina Cycle type}

### **WARNING**

Group <u>F03G 6/004</u> is incomplete pending reclassification of documents from group <u>F03G 6/003</u>.

Groups F03G 6/003 and F03G 6/004 should be considered in order to perform a complete search.

6/005

 {Binary cycle plants where the fluid from the solar collector heats the working fluid via a heat exchanger}

• {having other power cycles, e.g. Stirling or transcritical, supercritical cycles; combined with other power sources, e.g. wind, gas or nuclear}

### WARNING

6/0055

6/045

Group F03G 6/0055 is incomplete pending reclassification of documents from group F03G 6/00.

Groups F03G 6/00 and F03G 6/0055 should be considered in order to perform a complete search.

6/02 . using a single state working fluid

6/04 • gaseous {(<u>F03G 6/064</u>, <u>F03G 6/068</u> take precedence)}

 { by producing an updraft of heated gas or a downdraft of cooled gas, e.g. air driving an engine} 6/06 • with solar energy concentrating means

### WARNING

Group <u>F03G 6/06</u> is impacted by reclassification into groups <u>F03G 6/061</u>, <u>F03G 6/062</u>, <u>F03G 6/063</u> and <u>F03G 6/068</u>.

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

6/061 • Parabolic linear or trough concentrators

#### WARNING

Group <u>F03G 6/061</u> is incomplete pending reclassification of documents from group <u>F03G 6/06</u>.

Groups <u>F03G 6/06</u> and <u>F03G 6/061</u> should be considered in order to perform a complete search.

6/062 • Parabolic point or dish concentrators

### WARNING

Group <u>F03G 6/062</u> is incomplete pending reclassification of documents from group <u>F03G 6/06</u>.

Groups <u>F03G 6/06</u> and <u>F03G 6/062</u> should be considered in order to perform a complete search.

6/063 . . {Tower concentrators}

### WARNING

Group <u>F03G 6/063</u> is incomplete pending reclassification of documents from group F03G 6/06.

Groups F03G 6/06 and F03G 6/063 should be considered in order to perform a complete search.

6/064 • {having a gas turbine cycle, i.e. compressor and gas turbine combination}

6/065 . . {having a Rankine cycle}

### WARNING

Group <u>F03G 6/065</u> is impacted by reclassification into group <u>F03G 6/066</u>.

Groups <u>F03G</u> 6/065 and <u>F03G</u> 6/066 should be considered in order to perform a complete search.

6/066 • • • { of the Organic Rankine Cycle [ORC] type or the Kalina Cycle type}

### **WARNING**

Group <u>F03G 6/066</u> is incomplete pending reclassification of documents from group <u>F03G 6/065</u>.

Groups <u>F03G 6/065</u> and <u>F03G 6/066</u> should be considered in order to perform a complete search.

6/067

 {Binary cycle plants where the fluid from the solar collector heats the working fluid via a heat exchanger}

 6/068

 having other power cycles, e.g. Stirling or transcritical, supercritical cycles; combined with other power sources, e.g. wind, gas or nuclear}

#### WARNING

Group <u>F03G 6/068</u> is incomplete pending reclassification of documents from group <u>F03G 6/06</u>.

Groups F03G 6/06 and F03G 6/068 should be considered in order to perform a complete search.

6/071 • {with energy storage devices}

### WARNING

Groups <u>F03G 6/071</u> and <u>F03G 6/074</u> are incomplete pending reclassification of documents from group <u>F03G 6/00</u>.

Groups <u>F03G 6/00</u>, <u>F03G 6/071</u> and <u>F03G 6/074</u> should be considered in order to perform a complete search.

6/074 • • {of the non-thermal type, e.g. springs or batteries}

6/083 • {with solar ponds}

### WARNING

Group <u>F03G 6/083</u> is incomplete pending reclassification of documents from group F03G 6/00.

Groups <u>F03G 6/00</u> and <u>F03G 6/083</u> should be considered in order to perform a complete search.

6/089 • {for pumping}

### WARNING

Group <u>F03G 6/089</u> is incomplete pending reclassification of documents from group <u>F03G 6/00</u>.

Groups F03G 6/00 and F03G 6/089 should be considered in order to perform a complete search.

6/092 • {using heat pumps, e.g. solar assisted heat pumps}

### **WARNING**

Group <u>F03G 6/092</u> is incomplete pending reclassification of documents from groups F03G 6/00 and F03G 2007/007.

Groups F03G 6/00, F03G 2007/007 and F03G 6/092 should be considered in order to perform a complete search.

6/098 • {Components, parts or details}

### WARNING

Groups F03G 6/098, F03G 6/108, F03G 6/111, F03G 6/114 and F03G 6/117 are incomplete pending reclassification of documents from group F03G 6/00.

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

6/108 . . {of the heat transfer system}
6/111 . . . {Heat transfer fluids}

6/114 . . . . {Molten salts}

6/117 . . . . {Solid-liquid phase change of the heat transfer fluid}

6/121 • {Controlling or monitoring}

### **WARNING**

Groups F03G 6/121, F03G 6/124 and F03G 6/127 are incomplete pending reclassification of documents from group F03G 6/00.

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

6/124 . . {Start-up control}

6/127 . . {Over-night operation}

6/129 • {Safety arrangements}

#### WARNING

Group F03G 6/129 is incomplete pending reclassification of documents from group F03G 6/00.

Groups <u>F03G 6/00</u> and <u>F03G 6/129</u> should be considered in order to perform a complete search

7/00 Mechanical-power-producing mechanisms, not otherwise provided for or using energy sources not otherwise provided for

### WARNING

Group F03G 7/00 is impacted by reclassification into groups F03G 7/003, F03G 7/004, F03G 7/008, F03G 7/009, F03G 7/011, F03G 7/012, F03G 7/0121, F03G 7/015, F03G 7/016, F03G 7/017, F03G 7/025, F03G 7/0252, F03G 7/0254, F03G 7/027, F03G 7/028, F03G 7/029 and F03G 7/092.

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

7/002 • {using the energy of vibration of fluid columns} 7/003 • {Motors driven by thermophoresis or

• {Motors driven by thermophoresis or thermodiffusion}

### WARNING

Group F03G 7/003 is incomplete pending reclassification of documents from group F03G 7/00.

Groups F03G 7/00 and F03G 7/003 should be considered in order to perform a complete search.

7/004 • {Thermo-magnetic motors, e.g. using the Curie effect}

### **WARNING**

Group F03G 7/004 is incomplete pending reclassification of documents from group F03G 7/00.

Groups F03G 7/00 and F03G 7/004 should be considered in order to perform a complete search.

7/005 (*Frozen*) • {Electro-chemical actuators; Actuators having a material for absorbing or desorbing gas, e.g. a metal hydride; Actuators using the difference in osmotic pressure between fluids; Actuators with elements stretchable when contacted with liquid rich in ions, with UV light, with a salt solution}

### **WARNING**

Group <u>F03G 7/005</u> is no longer used for the classification of documents as of August 1, 2021.

The content of this group is being reclassified into groups F03G 7/009, F03G 7/011, F03G 7/012, F03G 7/0121, F03G 7/015, F03G 7/016 and F03G 7/017.

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

2007/007 (Frozen)

2007/007 • {using heat pumps}

### WARNING

Group <u>F03G 2007/007</u> is no longer used for the classification of documents as of August 1, 2021.

The content of this group is being reclassified into groups  $\underline{F03G7/047}$  and  $\underline{F03G6/092}$ .

Groups F03G 2007/007, F03G 7/047 and F03G 6/092 should be considered in order to perform a complete search.

7/008

• {characterised by the actuating element (actuating elements for mechanical power producing mechanism using expansion or contraction of bodies due to heating, cooling, moistening, drying or the like F03G 7/061)}

### **WARNING**

Group <u>F03G 7/008</u> is incomplete pending reclassification of documents from group F03G 7/00.

Groups F03G 7/00 and F03G 7/008 should be considered in order to perform a complete search.

7/009

• • {Actuators with elements stretchable when contacted with liquid rich in ions, with UV light or with a salt solution}

### **WARNING**

Group <u>F03G 7/009</u> is incomplete pending reclassification of documents from groups <u>F03G 7/00</u> and <u>F03G 7/005</u>.

Groups <u>F03G 7/00</u>, <u>F03G 7/005</u> and <u>F03G 7/009</u> should be considered in order to perform a complete search.

7/011

 { Actuators having a material for absorbing or desorbing a gas, e.g. with a fuel cell reaction or a metal hydride}

### WARNING

Group F03G 7/011 is incomplete pending reclassification of documents from groups F03G 7/00 and F03G 7/005.

Groups <u>F03G 7/00</u>, <u>F03G 7/005</u> and <u>F03G 7/011</u> should be considered in order to perform a complete search.

7/012 . . {Electro-chemical actuators}

### WARNING

Groups <u>F03G 7/012</u> and <u>F03G 7/0121</u> are incomplete pending reclassification of documents from groups <u>F03G 7/00</u> and <u>F03G 7/005</u>.

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

7/0121 7/015

- • {Electroactive polymers}
- • {Actuators using the difference in osmotic pressure between fluids}

### WARNING

Group <u>F03G 7/015</u> is incomplete pending reclassification of documents from groups <u>F03G 7/00</u> and <u>F03G 7/005</u>.

Groups <u>F03G 7/00</u>, <u>F03G 7/005</u> and <u>F03G 7/015</u> should be considered in order to perform a complete search.

7/016 • Photosensitive actuators, e.g. using the principle of Crookes radiometer}

#### WARNING

Group <u>F03G 7/016</u> is incomplete pending reclassification of documents from groups <u>F03G 7/00</u> and <u>F03G 7/005</u>.

Groups F03G 7/00, F03G 7/005 and F03G 7/016 should be considered in order to perform a complete search.

7/017 . . {Actuators comprising biological materials}

### WARNING

Group <u>F03G 7/017</u> is incomplete pending reclassification of documents from groups <u>F03G 7/00</u> and <u>F03G 7/005</u>.

Groups <u>F03G 7/00</u>, <u>F03G 7/005</u> and <u>F03G 7/017</u> should be considered in order to perform a complete search.

7/025 • {characterised by its use}

### WARNING

Groups F03G 7/025, F03G 7/0252 and F03G 7/0254 are incomplete pending reclassification of documents from group F03G 7/00.

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

7/0252 . {Motors; Energy harvesting or waste energy recovery}

7/0254 • • {pumping or compressing fluids, e.g. microfluidic devices}

7/027 • {Control or monitoring}

### WARNING

Group <u>F03G 7/027</u> is incomplete pending reclassification of documents from group <u>F03G 7/00</u>.

Groups F03G 7/00 and F03G 7/027 should be considered in order to perform a complete search.

7/028 • {Safety arrangements}

### WARNING

Group F03G 7/028 is incomplete pending reclassification of documents from group F03G 7/00.

Groups F03G 7/00 and F03G 7/028 should be considered in order to perform a complete search.

7/029 • {characterised by the material or the manufacturing process, e.g. the assembly}

### WARNING

Group F03G 7/029 is incomplete pending reclassification of documents from group F03G 7/00.

Groups F03G 7/00 and F03G 7/029 should be considered in order to perform a complete search.

 using pressure differences or thermal differences occurring in nature (F03G 7/06 takes precedence)

### **WARNING**

Group F03G 7/04 is impacted by reclassification into groups F03G 4/00, F03G 4/001, F03G 4/02, F03G 4/023, F03G 4/026, F03G 4/029, F03G 4/031, F03G 4/033, F03G 4/035, F03G 4/037, F03G 4/04, F03G 4/045, F03G 4/06, F03G 4/063, F03G 4/066, F03G 4/069, F03G 4/072, F03G 4/074, F03G 7/045 and F03G 7/047.

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

 7/045 • {Environmental heat plants or OTEC plants using an Organic Rankine Cycle [ORC] or a Kalina Cycle}

### WARNING

Group F03G 7/045 is incomplete pending reclassification of documents from group F03G 7/04.

Groups F03G 7/04 and F03G 7/045 should be considered in order to perform a complete search.

7/047 • • {Environmental heat plants or OTEC plants using heat pumps}

#### WARNING

Group <u>F03G 7/047</u> is incomplete pending reclassification of documents from groups <u>F03G 2007/007</u> and <u>F03G 7/04</u>.

Groups F03G 2007/007, F03G 7/04 and F03G 7/047 should be considered in order to perform a complete search.

7/05 7/06

- . . Ocean thermal energy conversion, i.e. OTEC
- using expansion or contraction of bodies due to heating, cooling, moistening, drying or the like (using thermal expansion of non-vaporising liquids F01K)

### WARNING

Group F03G 7/06 is impacted by reclassification into groups F03G 7/061, F03G 7/06112, F03G 7/06113, F03G 7/06114, F03G 7/06115, F03G 7/0612, F03G 7/0613, F03G 7/0614, F03G 7/06143, F03G 7/06143, F03G 7/06145, F03G 7/06147, F03G 7/0615, F03G 7/0616, F03G 7/0618, F03G 7/062, F03G 7/063, F03G 7/0631, F03G 7/06324, F03G 7/0634, F03G 7/0635, F03G 7/0644, F03G 7/0641, F03G 7/0645, F03G 7/0646, F03G 7/0646, F03G 7/0665 and F03G 7/067.

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

7/061 . . {characterised by the actuating element}

### WARNING

Groups F03G 7/061, F03G 7/06112, F03G 7/06113, F03G 7/06114, F03G 7/06115, F03G 7/0612, F03G 7/0613, F03G 7/0616 and F03G 7/0618 are incomplete pending reclassification of documents from group F03G 7/06.

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

7/06112 . . . {using the thermal expansion or contraction of enclosed fluids}

7/06113 . . . . {the fluids subjected to phase change}

7/06114 . . . {using the thermal expansion or contraction of solid materials}

7/06115 . . . {using materials changing their chemical composition}

7/0612 . . . {using polymers}

7/0613 . . . {using layers of different materials joined together, e.g. bimetals}

7/0614 • • {using shape memory elements} WARNING Groups F03G 7/0614, F03G 7/06143, F03G 7/06145, F03G 7/06146, F03G 7/06147 and F03G 7/0615 are incomplete pending reclassification of documents from groups F03G 7/06 and F03G 7/065. All groups listed in this Warning should be considered in order to perform a complete search. 7/06143 . . . . {Wires} 7/06145 . . . . {Springs} 7/06146 • • • {Torque tubes or torsion bars} 7/06147 . . . {Magnetic shape memory alloys, e.g. ferromagnetic alloys} 7/0615 • • • {Training, i.e. setting or adjusting the elongation characteristics of the material} 7/0616 . . . {characterised by the material or the manufacturing process, e.g. the assembly (magnetic shape memory alloys F03G 7/06147)} 7/0618 . . . {comprising biological materials} 7/062 • • {characterised by the activation arrangement} WARNING Group F03G 7/062 is incomplete pending reclassification of documents from group F03G 7/06. Groups F03G 7/06 and F03G 7/062 should be considered in order to perform a complete search. 7/063 • • {characterised by the mechanic interaction} WARNING Groups F03G 7/063, F03G 7/0631, F03G 7/06324, F03G 7/0633, F03G 7/0634, F03G 7/0635 and F03G 7/0636 are incomplete pending reclassification of documents from group F03G 7/06. All groups listed in this Warning should be considered in order to perform a complete search. 7/0631 • • • {One-way operation, e.g. release mechanism} 7/06324 • • {increasing or decreasing in volume} 7/0633 • • { performing a rotary movement } 7/0634 • • {using cam gearings} • • { with several elements connected in series } 7/0635 7/0636 • • { with several elements connected in parallel } 7/064 • (characterised by its use) WARNING Groups F03G 7/064, F03G 7/0641, F03G 7/0645 and F03G 7/0646 are incomplete

pending reclassification of documents from

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

. . . {Motors; Energy harvesting or waste energy

group F03G 7/06.

search.

recovery }

7/0645 . . {Clamping, fixing or crimping parts}
7/0646 . . {for pumping or compressing fluids}
7/065 . {using a shape memory element}
WARNING

### WARNING

Group <u>F03G 7/065</u> is no longer used for the classification of documents as of August 1, 2021.

The content of this group is being reclassified into groups F03G 7/0614, F03G 7/06143, F03G 7/06145, F03G 7/06146, F03G 7/06147 and F03G 7/0615.

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

7/066 • • {Actuator control or monitoring}

#### WARNING

Groups F03G 7/066 and F03G 7/0665 are incomplete pending reclassification of documents from group F03G 7/06.

Groups F03G 7/06, F03G 7/066 and F03G 7/0665 should be considered in order to

perform a complete search.. . {controlled displacement, e.g. by using a lens

positioning actuator} 7/067 • • {Safety arrangements}

7/0665

### **WARNING**

Group F03G 7/067 is incomplete pending reclassification of documents from group F03G 7/06.

Groups F03G 7/06 and F03G 7/067 should be considered in order to perform a complete search.

 recovering energy derived from swinging, rolling, pitching or like movements, e.g. from the vibrations of a machine

### **WARNING**

Group  $\underline{F03G\ 7/08}$  is impacted by reclassification into groups  $\underline{F03G\ 7/081}$ ,  $\underline{F03G\ 7/083}$ ,  $\underline{F03G\ 7/085}$  and  $\underline{F03G\ 7/087}$ .

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

7/081 . {recovering energy from moving road or rail vehicles, e.g. collecting vehicle vibrations in the vehicle tyres or shock absorbers}

### WARNING

Groups F03G 7/081, F03G 7/083, F03G 7/085 and F03G 7/087 are incomplete pending reclassification of documents from group F03G 7/08.

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

7/083 . . . {using devices on streets or on rails}
7/085 . . . {hydraulic or pneumatic devices}
7/087 . . . {magnetic or electromagnetic devices, e.g.

linear electric generators}

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7/092 • {Motors following new scientific theories not otherwise provide for, e.g. using quantum field effects like zero-point energy, Casimir effect}

### WARNING

Group F03G 7/092 is incomplete pending reclassification of documents from group F03G 7/00.

Groups F03G 7/00 and F03G 7/092 should be considered in order to perform a complete search.

7/10 • Alleged <u>perpetua mobilia</u> (using hydrostatic thrust F03B 17/04)

#### WARNING

Group F03G 7/10 is impacted by reclassification into groups F03G 7/104, F03G 7/107, F03G 7/111, F03G 7/115, F03G 7/119, F03G 7/122, F03G 7/125, F03G 7/129 and F03G 7/135.

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

7/104 • • {continuously converting gravity into usable power}

### **WARNING**

Groups F03G 7/104, F03G 7/107 and F03G 7/111 are incomplete pending reclassification of documents from group F03G 7/10.

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

7/107 • • { using an imbalance for increasing torque or saving energy}

7/111 • • • {using magnets, e.g. gravo-magnetic motors}

7/115 • • {harvesting energy from inertia forces}

### WARNING

Groups F03G 7/115 and F03G 7/119 are incomplete pending reclassification of documents from group F03G 7/10.

Groups F03G 7/10, F03G 7/115 and F03G 7/119 should be considered in order to

<u>F03G 7/119</u> should be considered in or perform a complete search.

7/119 . . {amplifying power, torque or energy}7/122 . . {of closed energy loops}

## WARNING

Group F03G 7/122 is incomplete pending reclassification of documents from group F03G 7/10

Groups F03G 7/10 and F03G 7/122 should be considered in order to perform a complete search.

7/125 • { creating a thrust by violating the principle of momentum conservation}

#### WARNING

Group F03G 7/125 is incomplete pending reclassification of documents from group F03G 7/10.

Groups F03G 7/10 and F03G 7/125 should be considered in order to perform a complete search.

7/129 . . {Thermodynamic processes}

### WARNING

Group <u>F03G 7/129</u> is incomplete pending reclassification of documents from group <u>F03G 7/10</u>.

Groups F03G 7/10 and F03G 7/129 should be considered in order to perform a complete search.

7/135 • {following unproven scientific theories; Theories about perpetual motion}

### **WARNING**

Group F03G 7/135 is incomplete pending reclassification of documents from group F03G 7/10.

Groups F03G 7/10 and F03G 7/135 should be considered in order to perform a complete search.