

## F03H

**PRODUCING A REACTIVE PROPULSIVE THRUST, NOT OTHERWISE PROVIDED FOR (from combustion products F02K)**

### References relevant to classification in this subclass

*This subclass/group does not cover:*

Places in relation to which this subclass is residual:

Marine propulsion or steering	<a href="#">B63H</a>
Propellers for aeroplanes	<a href="#">B64C 11/00</a>
Rotors for helicopters	<a href="#">B64C 27/32</a>
Jet-propulsion plants	<a href="#">F02K</a>
Machines or engines for liquids	<a href="#">F03B</a>

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Spring, weight, inertia or like motors; mechanical-power-producing mechanisms, not otherwise provided for or using energy sources not otherwise provided for	<a href="#">F03G</a>
Electric generators or motors not provided for elsewhere; Alleged perpetua mobilia obtained by electric or magnetic means	<a href="#">H02N 11/00</a>

## F03H 1/00

**Using plasma to produce a reactive propulsive thrust (generating plasma H05H1/00) [N: (ion sources per se H01J27/02, ion sources for plasma processing or ion beams H01J37/08 )]**

### Definition statement

*This subclass/group covers:*

Engines exhausting ions or a plasma (ions and electrons) to produce a reactive propulsive thrust.

Details thereof.

### **Relationship between large subject matter areas**

Multi-purpose ion sources which can be used inter alia as ion thruster should be classified only in [H01J 27/00](#) and lower.

### **References relevant to classification in this group**

*This subclass/group does not cover:*

Adaptations of ion or plasma engines for fitting in or to, cosmonautic vehicles	<a href="#">B64G 1/405</a>
Ion sources for plasma processing or for ion beams	<a href="#">H01J 37/08</a>
Apparatus for generating ions to be introduced into non-enclosed gases	<a href="#">H01T 23/00</a>
Plasma accelerators	<a href="#">H05H 1/54</a>

### **Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Arcjets and other resistojets for fitting in or to cosmonautic vehicles	<a href="#">B64G 1/406</a>
Electromagnetic launchers; Plasma-actuated launchers (railguns)	<a href="#">F41B 6/00</a>

### **Special rules of classification within this group**

Aspects related to the generation of ions (resp. plasma) should be classified in [H01J 27/02](#) (resp. [H05H 1/24](#)) and lower.

For example, a microwave ion thruster with a peculiar acceleration grid should be classified in [H01J 27/16](#) and [F03H 1/0043](#).

## Synonyms and Keywords

FEEP	Field Emission Electric Propulsion
HET	Hall-Effect Thruster
MPD	Magneto Plasma Dynamic
PPT	Pulsed Plasma Thruster
SPT	Stationary Plasma Thruster, a kind of Hall-Effect Thruster

## F03H 3/00

### Use of photons to produce a reactive propulsive thrust

#### Definition statement

*This subclass/group covers:*

Engines exhausting photons to produce a reactive propulsive thrust .

#### References relevant to classification in this group

*This subclass/group does not cover:*

Vehicle lighting	<a href="#">B60Q</a>
Arrangements or adaptations of signal or lighting devices for fitting in or to aircraft	<a href="#">B64D 47/02</a>
Adaptations of propulsion systems for fitting in or to, cosmonautic vehicles	<a href="#">B64G 1/40</a>
Lighting in general	<a href="#">F21</a>
Devices using stimulated emission, e.g. lasers	<a href="#">H01S</a>
Electric lighting	<a href="#">H05B</a>

## F03H 99/00

**Subject matter not provided for in other groups of this subclass**

### Definition statement

*This subclass/group covers:*

Engines producing a reactive propulsive thrust without exhausting a fluid, a plasma or photons .

Engines allegedly producing a reactive propulsive thrust without exhausting anything, in violation of the Newtonian law of action and reaction.

### References relevant to classification in this group

*This subclass/group does not cover:*

Jet-propulsion plants	<a href="#">F02K</a>
Using plasma to produce a reactive propulsive thrust	<a href="#">F03H 1/00</a>
Using photons to produce a reactive propulsive thrust	<a href="#">F03H 3/00</a>

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Unconventional spacecraft propulsion systems	<a href="#">B64G 1/409</a>
Spring, weight, inertia or like motors; Mechanical-power producing mechanisms, not otherwise provided for or using energy sources not otherwise provided for	<a href="#">F03G</a>