

F03H

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

References

References out of a residual place

Examples of places in relation to which this place is residual:

Marine propulsion or steering	B63H
Propellers for aeroplanes	B64C 11/00
Rotors for helicopters	B64C 27/32
Jet-propulsion plants	F02K
Machines or engines for liquids	F03B

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	F03G
Electric generators or motors not provided for elsewhere; Alleged perpetua mobilia obtained by electric or magnetic means	H02N 11/00

F03H 1/00

Using plasma to produce a reactive propulsive thrust (generating plasma [H05H 1/00](#)){(ion sources per se [H01J 27/02](#), ion sources for plasma processing or ion beams [H01J 37/08](#))}

Definition statement

This place covers:

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

Details thereof.

Relationships with other classification places

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

References

Limiting references

This place does not cover:

Adaptations of ion or plasma engines for fitting in or to, cosmonautic vehicles	B64G 1/405
Ion sources for plasma processing or for ion beams	H01J 37/08
Apparatus for generating ions to be introduced into non-enclosed gases	H01T 23/00

Plasma accelerators	H05H 1/54
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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	B64G 1/406
Electromagnetic launchers; Plasma-actuated launchers (railguns)	F41B 6/00

Special rules of classification

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

In patent documents, the following abbreviations are often used:

FEED	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 place covers:

Engines exhausting photons to produce a reactive propulsive thrust .

References

Limiting references

This place does not cover:

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

F03H 99/00**Subject matter not provided for in other groups of this subclass****Definition statement**

This place 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***Limiting references***

This place does not cover:

Using plasma to produce a reactive propulsive thrust	F03H 1/00
Using photons to produce a reactive propulsive thrust	F03H 3/00
Jet-propulsion plants	F02K

Informative references

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

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