

B64G

COSMONAUTICS; VEHICLES OR EQUIPMENT THEREFOR (apparatus for, or methods of, winning materials from extraterrestrial sources [E21C 51/00](#))

Definition statement

This place covers:

- Cosmonautic vehicles.
- Observing or tracking cosmonautic vehicles.
- Tools specially adapted for use in space.
- Space suits.
- Simulating cosmonautic conditions.
- Cosmonautics not otherwise provided for.

Special rules of classification

Indexing Codes with identical symbols starting with [B64D](#) are used for classifying additional information.

B64G 1/00

Cosmonautic vehicles

Definition statement

This place covers:

- Cosmonautic vehicles.
- Observing or tracking cosmonautic vehicles.
- Tools specially adapted for use in space.
- Space suits.
- Simulating cosmonautic conditions.
- Cosmonautics not otherwise provided for.

B64G 1/002

{Launch systems}

Definition statement

This place covers:

One use launching systems; e.g. rockets

References

Informative references

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

Rockets	F41F 3/04
---------	---------------------------

Special rules of classification

There will be an indexing scheme for the following:

Devices specially adapted to launch spacecraft from a platform at sea.

Dispensers arranging multiple satellites in a single launcher.

B64G 1/005

{Air launch}

Definition statement

This place covers:

Launching using aircraft.

References

Informative references

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

Flying units formed by separate aircraft	B64C 37/02
Aircraft transported by aircraft	B64D 5/00

B64G 1/007

{Orbit transfer}

Definition statement

This place covers:

Devices used to orbit transfer of cosmonautic vehicles.

B64G 1/10

Artificial satellites; Systems of such satellites; Interplanetary vehicles (space shuttles [B64G 1/14](#); radio transmission systems using satellites [H04B 7/185](#))

Definition statement

This place covers:

- Satellites.
- Satellite constellations.
- Interplanetary vehicles.

References

Informative references

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

Space shuttles	B64G 1/14
Radio systems using satellites	H04B 7/185

Special rules of classification

There will be an indexing scheme for the following:

- Earth observation satellites using optical means for mapping, surveying, Detection or intelligence.
- Earth observation satellites using radar for mapping, surveying, detection or intelligence.
- Meteorological satellites.

- Spacecraft specially adapted for astronomy observation.
- Spacecraft specially adapted for interplanetary, solar or interstellar exploration.
- Spacecraft specially adapted for the exploration of the surface of planets, Moons or comets.

B64G 1/12

manned

Definition statement

This place covers:

Space stations, e.g. International Space Station (ISS), Soviet Space station Mir.

B64G 1/14

Space shuttles

Definition statement

This place covers:

Reusable space vehicles.

B64G 1/24

Guiding or controlling apparatus, e.g. for attitude control (jet-propulsion plants [F02K](#); navigation or navigational instruments, see the relevant subclass, e.g. [G01C](#); automatic pilots [G05D 1/00](#))

Definition statement

This place covers:

Means for attitude control.

References

Informative references

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

Attitude control by solar sailing	B64G 1/407
Jet propulsion plants	F02K
Navigation or navigational instruments, see the relevant subclasses, e.g.	G01C
Automatic pilots	G05D 1/00

Special rules of classification

There will be an indexing scheme for:

Numerical aspects of spacecraft attitude control.

Advanced concepts for autonomous, robotic spacecraft, e.g. neural networks therefor.

B64G 1/242**{Orbits and trajectories}****Definition statement***This place covers:*

- Position control.
- Station keeping.

B64G 1/26**using jets****Definition statement***This place covers:*

Type of actuator device used for position control and station keeping.

B64G 1/36**using sensors, e.g. sun-sensors, horizon sensors****Definition statement***This place covers:*

Type of sensor used for position control and station keeping.

B64G 1/40

Arrangements or adaptations of propulsion systems ([B64G 1/26](#) takes precedence; propulsion plants per se, see the relevant subclasses, e.g. [F02K](#), [F03H](#))

Definition statement*This place covers:*

Types of propulsion systems for cosmonautic vehicles

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

Power supply systems	B64G 1/42
Propulsion plants per se, see the relevant subclasses, e.g.	F02K , F03H

B64G 1/42

Arrangements or adaptations of power supply systems (power supply systems per se, see the relevant subclasses)

Definition statement

This place covers:

Types of power supply systems for cosmonautic vehicles.

References**Informative references**

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

Propulsion systems	B64G 1/40
--------------------	---------------------------

B64G 1/66

Arrangements or adaptations of apparatus or instruments, not otherwise provided for (instruments per se, see the relevant classes, e.g. antennas for use in satellites [H01Q 1/28](#))

Definition statement

This place covers:

Antennas.

References**Informative references**

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

Antennas for use in satellites	H01Q 1/28
--------------------------------	---------------------------

B64G 1/68

of meteorite detectors

Definition statement

This place covers:

Meteorite detectors.

References**Informative references**

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

Protection against meteorites	B64G 1/56
-------------------------------	---------------------------

B64G 4/00

Tools specially adapted for use in space

Definition statement

This place covers:

Space robots.

References

Informative references

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

Robot arms	B25J 1/00
------------	---------------------------

Special rules of classification

There will be an indexing scheme for the following:

Robotic manipulator systems in space

B64G 6/00

Space suits

Definition statement

This place covers:

Space suits.

References

Informative references

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

High-altitude pressure suits	A62B 17/008
Flying suits	B64D 1/00

B64G 7/00

Simulating cosmonautic conditions, e.g. for conditioning crews (simulators for teaching or training purposes [G09B 9/00](#))

Definition statement

This place covers:

- Space simulators.
- Training astronauts.

References

Informative references

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

Simulators in general for training or teaching purposes	G09B 9/00
---	---------------------------

Special rules of classification

There will be an indexing scheme for the following:

Vacuum chambers

B64G 9/00

{Cosmonautics not otherwise provided for}

Definition statement

This place covers:

Space structures, e.g. space frames.

Special rules of classification

There will be an indexing scheme for the following:

Inflatable space structures.

High-frequency vibration effects on spacecraft structures.

Modular space systems.