

A62B

DEVICES, APPARATUS OR METHODS FOR LIFE-SAVING (valves specially adapted for medical use A61M39/00; life-saving devices, apparatus or methods specially adapted for use in water B63C9/00; divers' equipment B63C11/00; specially adopted for use with aircraft, e.g. parachutes, ejector seats, B64D; rescue devices peculiar to mining E21F11/00)

Definition statement

This subclass/group covers:

Life-saving devices in the sense of rescuing persons in immediate and physical danger due to possibly harmful surroundings, e.g. fire, toxic gases, falling from heights.

Relationship between large subject matter areas

Life-saving in the medical sense is in [A61M](#)

Life-saving for use in water/on sea: [B63C 9/00](#)

References relevant to classification in this group

This subclass/group does not cover:

Rescue devices for use in water/on sea	B63C 9/00
Rescue devices specific for mining	E21F 11/00
Medical transport, e.g. stretchers	A61G 1/00

Informative references

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

Safety during construction of buildings(this includes anchors for safety-lines, lifelines and similar)	E04G 21/32
For belay-devices/mountaineering/climbing	A63B 29/02

Synonyms and Keywords

In patent documents the following abbreviations are often used:

PAPR	Powered Air Purifying Respirator(Filter and Blower)
SC(U)BA	Self-Contained (Underwater) Breathing Apparatus(Breathing apparatus with compressed air, or closed circuit breathing apparatus)

A62B 1/00

Devices for lowering persons from buildings or the like

Definition statement

This subclass/group covers:

Devices to lower persons from heights, e.g. high-rise buildings.

Relationship between large subject matter areas

Mountaineering : [A63B 29/00](#)

Climbing devices for poles, trees or similar: [A63B 27/00](#)

References relevant to classification in this group

This subclass/group does not cover:

Karabiners / snap-hook devices	F16B 45/02
Elevators	B66B
Emergency escape exits for airplanes (e.g. inflatable chutes)	B64D 25/08

Informative references

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

Chutes, slides or similar for amusement	A63G 21/00
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Belay-devices/mountaineering/climbing devices	A63B 29/02
Self-acting brakes	F16D 59/00
Rope, cable or chain winding mechanisms	B66D 1/00
Brakes for load-lifting or hoisting	B66D 5/00
Conveying of suspended loads	B65G 9/00
Anchors for scaffolds	E04G 5/04
Anchors for scaffolds	E04G 5/04
Safety nets	E04G 21/3261

Special rules of classification within this group

[A62B 1/06](#): also includes rope-lowering devices for mountaineering.

A62B 3/00

Devices or single parts for facilitating escape from buildings or the like, e.g. protection shields, protection screens; Portable devices for preventing smoke penetrating into distinct parts of buildings (A62B1/00 takes precedence)

Definition statement

This subclass/group covers:

Devices to allow persons to find their way out of dangerous situations; e.g. emergency exit signs, cutting implements (e.g. hydraulic scissors), emergency hammers, ropes with feelable indicators towards the next exit.

References relevant to classification in this group

This subclass/group does not cover:

Devices for lowering persons	A62B 1/00
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Informative references

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

Crowbars or levers	B66F 15/00
Axes	B26B 23/00
Safety belt cutters in vehicles	B60R 22/32
Construction of visible, audible or tactile signalling devices (e.g. emergency exit signs)	G08B

Special rules of classification within this group

[A62B 3/005](#): Devices forcing an action, e.g. cutting implements, emergency hammers.

A62B 5/00

Other devices for rescuing from fire (ladders E06C)

Informative references

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

Working platforms suspended from booms	B66F 11/044
Platforms for use on ladders; liftable and lowerable platforms	E06C 7/00
Ladders in general	E06C

A62B 7/00

Respiratory apparatus (for medical purposes A61M16/00)

Definition statement

This subclass/group covers:

Breathing devices used in emergency cases, where breathing is otherwise not possible or potentially dangerous.

Relationship between large subject matter areas

Breathing devices for medical purposes: [A61M 16/00](#)

References relevant to classification in this group

This subclass/group does not cover:

Devices for storing, carrying or holding respiratory apparatus	A62B 25/00
Breathing devices for medical purposes	A61M 16/00
Breathing devices for divers	B63C 11/12 , B63C 11/18

Informative references

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

Filtering face masks	A62B 23/025 , A41D 13/11
Breathing masks and helmets	A62B 18/00
Filters for breathing-protection purposes	A62B 23/00
Air-treatment apparatus for aircraft crew or passengers	B64D 13/00

A62B 9/00

**Component parts for respiratory or breathing apparatus
(A62B19/00, A62B21/00, A62B23/00 take precedence)**

Definition statement

This subclass/group covers:

Elements used for respiratory or breathing apparatuses not provided for elsewhere, e.g. valves, breathing demand regulators, couplings, supporting frames for breathing apparatus (e.g. backpacks.)

Relationship between large subject matter areas

Cartridges with absorbing substances (e.g. active carbon): [A62B 19/00](#)[DEVICES](#) for producing oxygen by a chemical reaction: [A62B 21/00](#)

Filters: [A62B 23/00](#)

References relevant to classification in this group

This subclass/group does not cover:

Breathing devices for medical purposes	A61M 16/00
Valves for use in medical breathing devices	A61M 16/20
Cartridges with absorbing substances for respiratory apparatus	A62B 19/00
Devices producing oxygen from chemical substances for respiratory apparatus	A62B 21/00
Filters for breathing protection purposes	A62B 23/00
Breathing devices for divers	B63C 11/12 , B63C 11/18
Breathing demand valves for divers	B63C 11/22

Informative references

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

Valves in general	F16K
Breathing masks and helmets	A62B 18/00
Valves in breathing masks or helmets	A62B 18/10
Filters for breathing-protection purposes	A62B 23/00

A62B 11/00

Devices for reconditioning breathing air in sealed rooms (chemical purification, disinfection, or sterilisation of air A61L; in aircraft or submarines, insofar as they influence the construction of the vehicle or are influenced by its construction B63B, B64D, respectively; air-conditioning in general F24F)

Definition statement

This subclass/group covers:

devices for reconditioning breathing air in sealed rooms, e.g. air-raid shelters, high-security rooms, by filtering and reconditioning the air in the room (no outside air, no compressed air).

References relevant to classification in this group

This subclass/group does not cover:

Chemical purification, disinfection, or sterilisation of air	A61L
In aircraft or submarines, insofar as they influence the construction of the vehicle or are influenced by its construction	B63B , B64D
Air conditioning in general	F24F

A62B 13/00

Special devices for ventilating gasproof shelters (ventilating in general F24F)

Definition statement

This subclass/group covers:

Special devices for ventilating gasproof shelters, e.g. air-raid shelters with provisions to filter chemical and/or biological and/or nuclear contaminants from outside air before delivering this air to the inside of the shelter (specifically if including provisions to protect the inside of the shelter against shockwaves from explosions).

References relevant to classification in this group

This subclass/group does not cover:

Ventilating in general	F24F
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A62B 15/00

Installations affording protection against poisonous or injurious substances, e.g. with separate breathing apparatus ([N: preventing escape of dirt or fumes from the area where they are produced B08B15/00]; building aspects E04H9/00; [N: use of air currents for screening F24F9/00])

Definition statement

This subclass/group covers:

Installed devices necessary to protect against poisonous or injurious substances.

References relevant to classification in this group

This subclass/group does not cover:

Containers or portable cabins for affording breathing protection	A62B 31/00
Preventing escape of dirt or fumes from the area where they are produced	B08B 15/00
Building aspects	E04H 9/00
Use of air currents in for screening	F24F 9/00

A62B 17/00

Protective clothing affording protection against heat or harmful chemical agents or for use at high altitudes(protective clothing for work or sport A41D13/00, [N: e.g. overalls A41D13/02, surgical gowns A41D13/12; materials for protecting clothing A41D31/0011]; protecting eyes or ears A61F9/00; composition of materials for protective clothing A62D5/00; life-saving garments for use at sea B63C; diving suits B63C11/02; flying suits, [N: anti-g suits] B64D10/00; space suits B64G6/00; bullet-proof clothing F41H1/02)

Definition statement

This subclass/group covers:

Clothing which protects against high or low temperatures, this concerns especially adaptations to clothing which improve the suitability to use this clothing in certain circumstances, e.g. joint construction to improve flexibility while maintaining full protection, sealings of clothing to ensure air-tightness between the clothing and the wearer.

References relevant to classification in this group

This subclass/group does not cover:

Protective clothing for work or sport	A41D 13/00
Clothing combined with harnesses	A41D 13/00
Overalls	A41D 13/02
Surgical gowns	A41D 13/12
Selection of Materials for outerwear	A41D 31/00
Materials for protecting clothing	A41D 31/0011
Protection of eyes and ears	A61F 9/00
Half-masks which are made out of filter-material	A62B 23/025
Composition of materials for protective clothing	A62D 5/00
Life-saving garments for use at sea	B63C
Diving suits	B63C 11/02
Flying suits, anti-g suits	B64D 10/00
Space suits	B64G 6/00
Bullet-proof clothing	F41H 1/02

Informative references

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

Clothing with controlled internal environment	A41D 13/002
Headwear, hoods	A42B
Clothing for nuclear engineering	G21F 3/02
Details of garments, e.g. closures, seams	A41D 2300/30

A62B 18/00

Breathing masks or helmets, e.g. affording protection against chemical agents or for use at high altitudes [N: or incorporating a pump or compressor for reducing the inhalation effort] (A62B17/00 takes precedence; anaesthetic masks A61M16/06)

Definition statement

This subclass/group covers:

Breathing masks or helmets where the construction of the mask or helmet is concerned.

References relevant to classification in this group

This subclass/group does not cover:

Anaesthetic masks	A61M 16/06
Respiratory apparatus for aircraft	A62B 7/14
Protective clothing	A62B 17/00
Storing devices for breathing masks or helmets	A62B 25/00
Testing respiratory or breathing devices	A62B 27/00

Informative references

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

Helmets with ventilation	A42B 3/28
Fastening of respirators or breathing masks to helmets	A42B 3/288

A62B 19/00

Cartridges with absorbing substances for respiratory apparatus [N: (carbon dioxide absorbing devices A61M16/22)]

Definition statement

This subclass/group covers:
the mechanical construction of cartridges with absorbing substances.

References relevant to classification in this group

This subclass/group does not cover:

Carbon dioxide absorbing devices	A61M 16/22
Filters for breathing protection purposes	A62B 23/00
Chemical composition of absorbing substances	B01D 53/00

A62B 21/00

Devices for producing oxygen from chemical substances for respiratory apparatus

Definition statement

This subclass/group covers:
Devices producing oxygen for respiratory apparatus from chemical substances where the construction of the device or the relationship with the breathing apparatus is concerned. E.g. the construction of the housing of "candles" burning chemicals to produce oxygen which is fed to breathing apparatus in regard to form, thermal optimisation (shedding of heat without endangering the user).

References relevant to classification in this group

This subclass/group does not cover:

Carbon dioxide absorbing devices	A61M 16/22
Filters for breathing protection purposes	A62B 23/00
Chemical composition of absorbing substances	B01D 53/00

A62B 23/00

Filters for breathing-protection purposes (gas-filters in general B01D)

Definition statement

This subclass/group covers:

Filters and filtering media used to protect users of breathing apparatus from toxic environments, also masks made out of a filtering material.

References relevant to classification in this group

This subclass/group does not cover:

Chemical composition of absorbing substances	B01D 53/00
Gas filters in general	B01D

Informative references

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

Filters in breathing apparatus used for medical or therapeutical purposes	A61M 16/105
Face masks of for use in foul atmosphere (protection during work against dust, splashes/liquids, or exterior impact)	A41D 13/11

Special rules of classification within this group

When mask protects against splashes/liquids, dust or exterior impact, classification should be in [A41D 13/11](#).

When filtering or respiratory protection of the mask is relevant, classification should be done in [A62B 23/025](#).

When both kind of protections are specified, both classes should be given.

A62B 25/00

Devices for storing [N: or holding or carrying] respiratory or breathing apparatus

Definition statement

This subclass/group covers:

Devices, apparatus or similar to store, hold or carry breathing apparatus.

References relevant to classification in this group

This subclass/group does not cover:

Carrying harness for divers equipment	B63C 11/02
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Informative references

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

Storage of equipment in airplanes	B64D 11/00
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A62B 27/00

Methods or devices for testing respiratory or breathing apparatus [N: for high altitudes] (apparatus for testing gastightness in general G01M)

Definition statement

This subclass/group covers:

testing of respiratory or breathing apparatus to indicate readiness of use, certification for certain tasks (e.g. high altitudes (meaning in aircraft, for mountain climbing, but not in outer space/vacuum), legal, ergonomic, or other requirements);

indicating devices to indicate necessary refill/service of the apparatus (e.g. after previous use);

References relevant to classification in this group

This subclass/group does not cover:

Apparatus for testing gastightness in general	G01M
"Artificial head" for testing gastightness of masks and helmets	G01M 3/00

A62B 29/00

Devices for rendering harmless or for keeping off harmful chemical agents (respiratory apparatus A62B7/00 ; gasproof doors, windows, shutters E06B)

Definition statement

This subclass/group covers:

other devices for dealing with chemical agents which are not respiratory apparatus, e.g. devices including substances that eliminate chemical agents

References relevant to classification in this group

This subclass/group does not cover:

Respiratory apparatus	A62B 7/00
Gasproof windows, doors, shutters	E06B
Ventilation in general	F24F

A62B 31/00

Containers or portable cabins for affording breathing protection with devices for reconditioning the breathing air or for ventilating, [N: in particular those that are suitable for invalids or small children] (ventilation of gasproof shelters A62B13/00; protective clothes or coverings A62B17/00; treatment rooms for medical purposes A61G10/00)

Definition statement

This subclass/group covers:

mobile shelters (e.g. containers, cabins, tents) including breathing protection apparatus.

References relevant to classification in this group

This subclass/group does not cover:

Ventilation of gasproof shelters	A62B 13/00
Protective clothing or coverings	A62B 17/00
Treatment rooms for medical purposes	A61G 10/00
Ventilation in general	F24F

A62B 33/00

Devices for allowing seemingly-dead persons to escape or draw attention; Breathing apparatus for accidentally buried persons

Definition statement

This subclass/group covers:

Devices allowing accidentally buried person to indicate their location (e.g. victims of avalanches, earthquakes).

References relevant to classification in this group

This subclass/group does not cover:

Means for indicating the location of accidentally buried person while mountaineering	A63B 29/021
Devices for in and under water	B63C 9/00
Detection of hidden masses in general	G01V
Distress signalling with visible signals	G08B 5/002

A62B 35/00

Safety belts or body harnesses; Similar equipment for limiting displacement of the human body, especially in case of sudden changes of motion (buckles A44B11/00; accessories for children's furniture A47D15/00; children's seats B60N2/24; safety belts or body harnesses for land vehicles B60R22/00; harnesses for parachutes B64D17/30; harnessing in aircraft B64D25/06 ; releasable fastenings F16B)

Definition statement

This subclass/group covers:

Devices which keep people safe working at exposed position, e.g. catching devices for workers at heights; this includes lifeline constructions, harnesses, safety belts.

References relevant to classification in this group

This subclass/group does not cover:

Hunting stands (shooting stands used for hunting)	A01M 31/02
Buckles	A44B 11/00
Baby-walk harnesses, harnesses to guide children	A47D 13/08
Accessories for childrens furniture	A47D 15/00
Restraining devices for orthopaedic means (attaching a body to e.g. bed, chair,...)	A61F 5/00W
Lowering of persons from heights	A62B 1/00
Children seats	B60N 2/24
Safety seat belts for vehicles	B60R 22/00
Harnesses for parachutes	B64D 17/30
Harnessing in aircraft	B64D 25/06
Fabrics for safety-belts	D03D 1/0005

Safety devices used in combination with a ladder	E06C 7/18
Releasable fastenings	F16B

Informative references

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

Safety devices for window cleaning	A47L 3/00
Harness for surfing	B63B 35/7993
Conveying of suspended loads	B65G 9/00
Safety devices used during construction of buildings	E04G 21/32
Karabiners / snap-hook devices	F16B 45/02
Means for fastening cables or ropes to one another or other objects; e.g. tensioning devices	F16G 11/00

A62B 99/00

Subject matter not provided for in other groups of this subclass

References relevant to classification in this group

This subclass/group does not cover:

Medical transport, e.g. stretchers	A61G 1/00
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