

CPC**COOPERATIVE PATENT CLASSIFICATION****A62B**

DEVICES, APPARATUS OR METHODS FOR LIFE-SAVING (valves specially adapted for medical use [A61M 39/00](#); life-saving devices, apparatus or methods specially adapted for use in water [B63C 9/00](#); divers' equipment [B63C 11/00](#); specially adopted for use with aircraft, e.g. parachutes, ejector seats, [B64D 17/00](#), [B64D 25/10](#)); rescue devices peculiar to mining [E21F 11/00](#))

Rescuing from fire; Rescuing from buildings or the like (from mountains or trees [A63B 27/00](#), [A63B 29/00](#); from ships [B63C](#))

A62B 1/00

Devices for lowering persons from buildings or the like

A62B 1/02

- by making use of rescue cages, bags, or the like ([elevators](#), [escalators](#) or [moving walkways](#) [B66B](#))

A62B 1/04

- . Single parts, e.g. fastening devices

A62B 1/06

- by making use of rope-lowering devices ([capstans](#), [winches](#) [B66D](#))

NOTE

Contrary to the references in the Guide Heading before group [A62B 1/00](#) and in group [A62B 1/16](#), this group contains also rope-lowering devices for mountaineering

A62B 1/08

- . with brake mechanisms for the winches or pulleys

A62B 1/10

- . . mechanically operated

A62B 1/12

- . . hydraulically operated

A62B 1/14

- . with brakes sliding on the rope

A62B 1/16

- . Life-saving ropes or belts ([safety belts](#) [A62B 35/00](#); [mountain guy-ropes](#) [A63B 29/02](#); [life-saving belts for use at sea](#) [B63C](#))

A62B 1/18

- . Other single parts for rope lowering-devices, e.g. take-up rollers for ropes, devices for shooting ropes

A62B 1/20

- by making use of sliding-ropes, sliding-poles or chutes, e.g. hoses, pipes, sliding-grooves, sliding-sheets

A62B 1/22

- by making use of jumping devices, e.g. jumping-sheets, jumping-mattresses

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 ([A62B 1/00](#) takes precedence)

A62B 3/005

- {[Rescue tools with forcing action](#)}

A62B 5/00

Other devices for rescuing from fire ([ladders](#) [E06C](#))

Respirators; Gas-masks, including breathing apparatus, e.g. for high altitude, or masks therefor; Devices affording protection against harmful chemical agents (composition of materials for coverings against harmful chemical agents [A62D 5/00](#), for transparent parts of breathing apparatus [A62D 7/00](#); composition of chemical substances for use in breathing apparatus [A62D 9/00](#))

A62B 7/00

Respiratory apparatus (for medical purposes [A61M 16/00](#))

- [A62B 7/02](#)
 - with compressed oxygen or air
- [A62B 7/04](#)
 - . and lung-controlled oxygen or air valves
- [A62B 7/06](#)
 - with liquid oxygen {or air; Cryogenic systems}
- [A62B 7/08](#)
 - containing chemicals producing oxygen
- [A62B 7/10](#)
 - with filter elements
- [A62B 7/12](#)
 - with fresh-air hose
- [A62B 7/14](#)
 - for high-altitude aircraft

A62B 9/00

Component parts for respiratory or breathing apparatus ([A62B 19/00](#), [A62B 21/00](#), [A62B 23/00](#) take precedence)

- [A62B 9/003](#)
 - {Means for influencing the temperature or humidity of the breathing gas}
- [A62B 9/006](#)
 - {Indicators or warning devices, e.g. of low pressure, contamination}
- [A62B 9/02](#)
 - Valves {(non-return valves mounted in breathing masks or helmets [A62B 18/10](#))}
- [A62B 9/022](#)
 - . {Breathing demand regulators (SCUBA diving regulators [B63C 11/22](#))}
- [A62B 9/025](#)
 - . . {with tilting opening action}
- [A62B 9/027](#)
 - . . . {pilot operated, i.e. controlled by valve means sensitive to a reduced downstream pressure}
- [A62B 9/04](#)
 - Couplings; Supporting frames
- [A62B 9/06](#)
 - Mouthpieces; Nose-clips (for medical purposes [A61M 15/00](#))

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](#))

A62B 13/00

Special devices for ventilating gasproof shelters (ventilating in general [F24F](#))

A62B 15/00

Installations affording protection against poisonous or injurious substances, e.g. with separate breathing apparatus ({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 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 [A41D 13/00](#), {e.g. overalls [A41D 13/02](#), surgical gowns [A41D 13/12](#); materials for protecting clothing [A41D 31/0011](#)}; protecting eyes or ears [A61F 9/00](#); 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](#))

- A62B 17/001
 - {Adaptations for donning, adjusting or increasing mobility, e.g. closures, joints}
- A62B 17/003
 - {Fire-resistant or fire-fighters' clothes}
- A62B 17/005
 - {Active or passive body temperature control}
- A62B 17/006
 - {against contamination from chemicals, toxic or hostile environments; ABC suits}
- A62B 17/008
 - {High-altitude pressure suits}
- A62B 17/04
 - Hoods
- A62B 17/08
 - Protective coverings for animals {(protective covers when working [B68C 5/00](#))}

A62B 18/00

Breathing masks or helmets, e.g. affording protection against chemical agents or for use at high altitudes {or incorporating a pump or compressor for reducing the inhalation effort} ([A62B 17/00](#) takes precedence; anaesthetic masks [A61M 16/06](#))

- A62B 18/003
 - {having means for creating a fresh air curtain}
- A62B 18/006
 - {with pumps for forced ventilation ([A62B 18/045](#) takes precedence)}
- A62B 18/02
 - Masks (gas-masks for animals [A62B 18/06](#); masks for welders [A61F 9/06](#))
- A62B 18/025
 - . {Halfmasks ([A62B 23/02](#) takes precedence; surgical face masks [A41D 13/11](#))}
- A62B 18/04
 - Gas helmets
- A62B 18/045
 - . {with fans for delivering air for breathing mounted in or on the helmet}
- A62B 18/06
 - Gas masks for animals
- A62B 18/08
 - Component parts for gas-masks or gas-helmets, e.g. windows, straps, speech transmitters, signal-devices (eye-pieces for protective goggles [A61F 9/02](#); composition of materials for the windows or other transparent parts [A62D 7/00](#))
- A62B 18/082
 - . {Assembling eyepieces, lenses or vision-correction means in or on gas-masks}
- A62B 18/084
 - . {Means for fastening gas-masks to heads or helmets}
- A62B 18/086
 - . {Adaptations for consuming refreshments without unmasking}
- A62B 18/088
 - . {Devices for indicating filter saturation}
- A62B 18/10
 - . Valves

A62B 19/00

Cartridges with absorbing substances for respiratory apparatus {(carbon dioxide absorbing devices [A61M 16/22](#))}

- A62B 19/02
 - with oxidising agents

A62B 21/00

Devices for producing oxygen from chemical substances for respiratory apparatus

A62B 23/00

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

- A62B 23/02
 - for respirators
- A62B 23/025
 - . {the filter having substantially the shape of a mask (surgical face masks [A41D 13/11](#))}
- A62B 23/04
 - for gasproof shelters
- A62B 23/06
 - Nose filters

A62B 25/00	Devices for storing {or holding or carrying} respiratory or breathing apparatus
A62B 25/005	. {for high altitude}
A62B 27/00	Methods or devices for testing respiratory or breathing apparatus {for high altitudes} (apparatus for testing gastightness in general G01M)
A62B 29/00	Devices, e.g. installations, for rendering harmless or for keeping off harmful chemical agents (respiratory apparatus A62B 7/00 ; gasproof doors, windows, shutters E06B)
A62B 31/00	Containers or portable cabins for affording breathing protection with devices for reconditioning the breathing air or for ventilating, {in particular those that are suitable for invalids or small children} (ventilation of gasproof shelters A62B 13/00 ; protective clothes or coverings A62B 17/00 ; treatment rooms for medical purposes A61G 10/00)
A62B 33/00	Devices for allowing seemingly-dead persons to escape or draw attention; Breathing apparatus for accidentally buried persons
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 A44B 11/00 ; accessories for children's furniture A47D 15/00 ; children's seats B60N 2/24 ; safety belts or body harnesses for land vehicles B60R 22/00 ; harnesses for parachutes B64D 17/30 ; harnessing in aircraft B64D 25/06 ; releasable fastenings F16B)
A62B 35/0006	. {Harnesses; Accessories therefor}
A62B 35/0012	. . {Sit harnesses}
A62B 35/0018	. . {Full body harnesses covering at least shoulders and thighs}
A62B 35/0025	. . {Details and accessories}
A62B 35/0031	. . . {Belt sorting accessories, e.g. devices keeping the belts in comfortable positions}
A62B 35/0037	. . . {Attachments for lifelines and lanyards (lifelines, lanyards A62B 35/0043)}
A62B 35/0043	. {Lifelines, lanyards, and anchors therefore (attachments A62B 35/0037)}
A62B 35/005	. . {Vertical lifelines}
A62B 35/0056	. . {Horizontal lifelines}
A62B 35/0062	. . {Rail-form lifelines for permanent installation}
A62B 35/0068	. . {Anchors}
A62B 35/0075	. . {Details of ropes or similar equipment, e.g. between the secured person and the lifeline or anchor}
A62B 35/0081	. {Equipment which can travel along the length of a lifeline, e.g. travelers}
A62B 35/0087	. . {Arrangements for bypassing lifeline supports without lanyard disconnection}
A62B 35/0093	. {Fall arrest reel devices}
A62B 35/04	. incorporating energy absorbing means
A62B 99/00	Subject matter not provided for in other groups of this subclass