

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](#) ; rescue devices peculiar to mining [E21F 11/00](#))

Guidance heading: **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](#))

Guidance heading: **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 13/00F](#)) }
- 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**