

**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](#) } )

<b>A62B 17/00</b>	<b>Protective clothing affording protection against heat or harmful chemical agents or for use at high altitudes</b> (protective clothing for work or sport <a href="#">A41D 13/00</a> , {e.g. overalls <a href="#">A41D 13/02</a> , surgical gowns <a href="#">A41D 13/12</a> ; materials for protecting clothing <a href="#">A41D 31/0011</a> }; protecting eyes or ears <a href="#">A61F 9/00</a> ; composition of materials for protective clothing <a href="#">A62D 5/00</a> ; life-saving garments for use at sea <a href="#">B63C</a> ; diving suits <a href="#">B63C 11/02</a> ; flying suits, {anti-g suits } <a href="#">B64D 10/00</a> ; space suits <a href="#">B64G 6/00</a> ; bullet-proof clothing <a href="#">F41H 1/02</a> )
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 <a href="#">B68C 5/00</a> ) }
<b>A62B 18/00</b>	<b>Breathing masks or helmets, e.g. affording protection against chemical agents or for use at high altitudes</b> {or incorporating a pump or compressor for reducing the inhalation effort } ( <a href="#">A62B 17/00</a> takes precedence; anaesthetic masks <a href="#">A61M 16/06</a> )
A62B 18/003	. {having means for creating a fresh air curtain }
A62B 18/006	. {with pumps for forced ventilation ( <a href="#">A62B 18/045</a> takes precedence) }
A62B 18/02	. Masks (gas-masks for animals <a href="#">A62B 18/06</a> ; masks for welders <a href="#">A61F 9/06</a> )
A62B 18/025	.. {Halfmasks ( <a href="#">A62B 23/02</a> takes precedence; surgical face masks <a href="#">A41D 13/00F</a> ) }
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 <a href="#">A61F 9/02</a> ; composition of materials for the windows or other transparent parts <a href="#">A62D 7/00</a> )
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
<b>A62B 19/00</b>	<b>Cartridges with absorbing substances for respiratory apparatus</b> { (carbon dioxide absorbing devices <a href="#">A61M 16/22</a> ) }

A62B 19/02	. with oxidising agents
<b>A62B 21/00</b>	<b>Devices for producing oxygen from chemical substances for respiratory apparatus</b>
<b>A62B 23/00</b>	<b>Filters for breathing-protection purposes (gas-filters in general <a href="#">B01D</a> )</b>
A62B 23/02	. for respirators
A62B 23/025	. . { the filter having substantially the shape of a mask (surgical face masks <a href="#">A41D 13/11</a> ) }
A62B 23/04	. for gasproof shelters
A62B 23/06	. Nose filters
<b>A62B 25/00</b>	<b>Devices for storing {or holding or carrying } respiratory or breathing apparatus</b>
A62B 25/005	. {for high altitude }
<b>A62B 27/00</b>	<b>Methods or devices for testing respiratory or breathing apparatus {for high altitudes } (apparatus for testing gastightness in general <a href="#">G01M</a> )</b>
<b>A62B 29/00</b>	<b>Devices, e.g. installations, for rendering harmless or for keeping off harmful chemical agents (respiratory apparatus <a href="#">A62B 7/00</a>; gasproof doors, windows, shutters <a href="#">E06B</a> )</b>
<b>A62B 31/00</b>	<b>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 <a href="#">A62B 13/00</a>; protective clothes or coverings <a href="#">A62B 17/00</a>; treatment rooms for medical purposes <a href="#">A61G 10/00</a>)</b>
<b>A62B 33/00</b>	<b>Devices for allowing seemingly-dead persons to escape or draw attention; Breathing apparatus for accidentally buried persons</b>
<b>A62B 35/00</b>	<b>Safety belts or body harnesses; Similar equipment for limiting displacement of the human body, especially in case of sudden changes of motion (buckles <a href="#">A44B 11/00</a>; accessories for children`s furniture <a href="#">A47D 15/00</a>; children`s seats <a href="#">B60N 2/24</a>; safety belts or body harnesses for land vehicles <a href="#">B60R 22/00</a>; harnesses for parachutes <a href="#">B64D 17/30</a>; harnessing in aircraft <a href="#">B64D 25/06</a>; releasable fastenings <a href="#">F16B</a> )</b>
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**