

# CPC COOPERATIVE PATENT CLASSIFICATION

## A HUMAN NECESSITIES

### HEALTH; AMUSEMENT

## A62 LIFE-SAVING; FIRE-FIGHTING

**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](#))

#### WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

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

#### 1/00 Devices for lowering persons from buildings or the like

- 1/02 . by making use of rescue cages, bags, or the like (elevators, escalators or moving walkways [B66B](#))
- 1/04 . . Single parts, e.g. fastening devices
- 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

- 1/08 . . with brake mechanisms for the winches or pulleys
- 1/10 . . . mechanically operated
- 1/12 . . . hydraulically operated
- 1/14 . . with brakes sliding on the rope
- 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](#))
- 1/18 . . Other single parts for rope lowering-devices, e.g. take-up rollers for ropes, devices for shooting ropes
- 1/20 . by making use of sliding-ropes, sliding-poles or chutes, e.g. hoses, pipes, sliding-grooves, sliding-sheets
- 1/22 . by making use of jumping devices, e.g. jumping-sheets, jumping-mattresses

#### 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)

- 3/005 . {Rescue tools with forcing action}

#### 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](#))

#### 7/00 Respiratory apparatus (for medical purposes [A61M 16/00](#))

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

#### 9/00 Component parts for respiratory or breathing apparatus ([A62B 19/00](#), [A62B 21/00](#), [A62B 23/00](#) take precedence)

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

#### 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](#))

13/00	<b>Special devices for ventilating gasproof shelters</b> (ventilating in general <a href="#">F24F</a> )	19/02	• with oxidising agents
15/00	<b>Installations affording protection against poisonous or injurious substances, e.g. with separate breathing apparatus</b> ({preventing escape of dirt or fumes from the area where they are produced <a href="#">B08B 15/00</a> }; building aspects <a href="#">E04H 9/00</a> {; use of air currents for screening <a href="#">F24F 9/00</a> })	21/00	<b>Devices for producing oxygen from chemical substances for respiratory apparatus</b>
17/00	<b>Protective clothing affording protection against heat or harmful chemical agents or for use at high altitudes</b> (protective clothing or garments 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 31/04</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> ; flight suits <a href="#">B64D 10/00</a> ; space suits <a href="#">B64G 6/00</a> ; bullet-proof clothing <a href="#">F41H 1/02</a> )	23/00	<b>Filters for breathing-protection purposes</b> (gas-filters in general <a href="#">B01D</a> )
17/001	• {Adaptations for donning, adjusting or increasing mobility, e.g. closures, joints}	23/02	• for respirators
17/003	• {Fire-resistant or fire-fighters' clothes}	23/025	• • {the filter having substantially the shape of a mask (surgical face masks <a href="#">A41D 13/11</a> )}
17/005	• {Active or passive body temperature control}	23/04	• for gasproof shelters
17/006	• {against contamination from chemicals, toxic or hostile environments; ABC suits}	23/06	• Nose filters
17/008	• {High-altitude pressure suits}	25/00	<b>Devices for storing {or holding or carrying} respiratory or breathing apparatus</b>
17/04	• Hoods	25/005	• {for high altitude}
17/08	• Protective coverings for animals {(protective covers when working <a href="#">B68C 5/00</a> )}	27/00	<b>Methods or devices for testing respiratory or breathing apparatus {for high altitudes}</b> (apparatus for testing gastightness in general <a href="#">G01M</a> )
18/00	<b>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}</b> ( <a href="#">A62B 17/00</a> takes precedence; anaesthetic masks <a href="#">A61M 16/06</a> )	29/00	<b>Devices, e.g. installations, for rendering harmless or for keeping off harmful chemical agents</b> (respiratory apparatus <a href="#">A62B 7/00</a> ; gasproof doors, windows, shutters <a href="#">E06B</a> )
18/003	• {having means for creating a fresh air curtain}	31/00	<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}</b> (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> )
18/006	• {with pumps for forced ventilation ( <a href="#">A62B 18/045</a> takes precedence)}	33/00	<b>Devices for allowing seemingly-dead persons to escape or draw attention; Breathing apparatus for accidentally buried persons</b>
18/02	• Masks (gas-masks for animals <a href="#">A62B 18/06</a> ; masks for welders <a href="#">A61F 9/06</a> )	35/00	<b>Safety belts or body harnesses; Similar equipment for limiting displacement of the human body, especially in case of sudden changes of motion</b> (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> )
18/025	• • {Halfmasks ( <a href="#">A62B 23/02</a> takes precedence; surgical face masks <a href="#">A41D 13/11</a> )}	35/0006	• {Harnesses; Accessories therefor}
18/04	• Gas helmets	35/0012	• • {Sit harnesses}
18/045	• • {with fans for delivering air for breathing mounted in or on the helmet}	35/0018	• • {Full body harnesses covering at least shoulders and thighs}
18/06	• Gas masks for animals	35/0025	• • {Details and accessories}
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> )	35/0031	• • • {Belt sorting accessories, e.g. devices keeping the belts in comfortable positions}
18/082	• • {Assembling eyepieces, lenses or vision-correction means in or on gas-masks}	35/0037	• • • {Attachments for lifelines and lanyards (lifelines, lanyards <a href="#">A62B 35/0043</a> )}
18/084	• • {Means for fastening gas-masks to heads or helmets}	35/0043	• {Lifelines, lanyards, and anchors therefore (attachments <a href="#">A62B 35/0037</a> )}
18/086	• • {Adaptations for consuming refreshments without unmasking}	35/005	• • {Vertical lifelines}
18/088	• • {Devices for indicating filter saturation}	35/0056	• • {Horizontal lifelines}
18/10	• • Valves	35/0062	• • {Rail-form lifelines for permanent installation}
19/00	<b>Cartridges with absorbing substances for respiratory apparatus</b> {(carbon dioxide absorbing devices <a href="#">A61M 16/22</a> )}	35/0068	• • {Anchors}
		35/0075	• • {Details of ropes or similar equipment, e.g. between the secured person and the lifeline or anchor}
		35/0081	• {Equipment which can travel along the length of a lifeline, e.g. travelers}

- 35/0087 . . {Arrangements for bypassing lifeline supports without lanyard disconnection}
- 35/0093 . {Fall arrest reel devices}
- 35/04 . incorporating energy absorbing means
- 99/00 Subject matter not provided for in other groups of this subclass**