A62B DEVICES, APPARATUS OR METHODS FOR LIFE-SAVING (valves specially adapted for medical use A61M 39/00; composition of chemical substances used in respirators, gas-masks, breathing apparatus or the like A62D; rescuing from mountains or trees A63B 27/00, A63B 29/00; life-saving devices, apparatus or methods specially adapted for use in water B63C 9/00; divers' equipment B63C 11/00; specially adapted for use with aircraft, e.g. parachutes or ejector seats, B64D; rescue devices peculiar to mining E21F 11/00)

Rescuing from fire: Rescuing from buildings or the like

<table>
<thead>
<tr>
<th>1/00</th>
<th>Devices for lowering persons from buildings or the like</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/02</td>
<td>. by making use of rescue cages, bags, or the like (elevators, escalators or moving walkways B66B)</td>
</tr>
<tr>
<td>1/04</td>
<td>. Single parts, e.g. fastening devices</td>
</tr>
<tr>
<td>1/06</td>
<td>. by making use of rope-lowering devices (capstans, winches B66D)</td>
</tr>
<tr>
<td>1/08</td>
<td>. with brake mechanisms for the winches or pulleys</td>
</tr>
<tr>
<td>1/10</td>
<td>. mechanically operated</td>
</tr>
<tr>
<td>1/12</td>
<td>. hydraulically operated</td>
</tr>
<tr>
<td>1/14</td>
<td>. with brakes sliding on the rope</td>
</tr>
<tr>
<td>1/16</td>
<td>. Life-saving ropes or belts (safety belts A62B 35/00; mountain guy-ropes A63B 29/02; life-saving belts for use at sea B63C)</td>
</tr>
<tr>
<td>1/18</td>
<td>. Other single parts for rope lowering-devices, e.g. take-up rollers for ropes, devices for shooting ropes</td>
</tr>
<tr>
<td>1/20</td>
<td>. by making use of sliding-ropes, sliding-poles or chutes, e.g. hoses, pipes, sliding-grooves, sliding sheets</td>
</tr>
<tr>
<td>1/22</td>
<td>. by making use of jumping devices, e.g. jumping-sheet, jumping-mattresses</td>
</tr>
<tr>
<td>3/00</td>
<td>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)</td>
</tr>
<tr>
<td>5/00</td>
<td>Other devices for rescuing from fire (ladders E06C)</td>
</tr>
</tbody>
</table>

Respirators: Gas-masks, including breathing apparatus, e.g. for high altitude, or masks therefor; Devices affording protection against harmful chemical agents

<table>
<thead>
<tr>
<th>7/00</th>
<th>Respiratory apparatus (for medical purposes A61M 16/00)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/02</td>
<td>. with compressed oxygen or air</td>
</tr>
<tr>
<td>7/04</td>
<td>. and lung-controlled oxygen or air valves</td>
</tr>
<tr>
<td>7/06</td>
<td>. with liquid oxygen</td>
</tr>
</tbody>
</table>

Subclass Index

RESCUING, e.g. IN CASE OF FIRE
  Means for escape or protection ................................ 1/00, 3/00, 7/00
  Breathing containers ............................................. 31/00
  Safety means for seemingly-dead persons .............................. 33/00

INDIVIDUAL BREATHING MASKS OR APPARATUS
  Types .......................................................... 7/00, 18/00
  Details ........................................................ 9/00, 18/08

OTHER LIFE-SA VING .....................................................99/00

Other protection ............................................15/00, 29/00

A62B 35/00; mountain guy-ropes A63B 29/2; life-saving garments for use at sea B63C; diving suits B63C; flying suits B64D, respectively; air-conditioning in general F24F)

13/00 Special devices for ventilating gasproof shelters (ventilating in general F24F)

15/00 Installations affording protection against poisonous or injurious substances, e.g. with separate breathing apparatus (building aspects E04H 9/00)

17/00 Protective clothing affording protection against heat or harmful chemical agents or for use at high altitudes (protective clothing or garments for work or sport A41D 13/00; 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 B64D 10/02; space suits B64G 6/00; bullet-proof clothing F41H 9/00)
Subclass Index

27 / 00 Methods or devices for testing respiratory or breathing apparatus (apparatus for testing gastightness in general G01M) [4]

33 / 00 Devices for allowing seemingly-dead persons to escape or draw attention; Breathing apparatus for accidentally buried persons

35 / 00 Safety belts or body harneses; 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 harneses for land vehicles B60R 22/00; harnesses for parachutes B64D 17/30; harnessing in aircraft B64D 25/06; releasable fastenings F16B) [4]

99 / 00 Subject matter not provided for in other groups of this subclass [2009.01]

A62C  FIRE-FIGHTING (fire-extinguishing compositions, use of chemical substances in extinguishing fires A62D 1/00; spraying, applying liquids or other fluent materials to surfaces in general B05; fire-fighting aircraft B64D 1/16; alarm arrangements G08B, e.g. fire alarms actuated by smoke or gases G08B 17/10)

Subclass Index

FIRE PREVENTION OR CONTAINMENT;
FIRE-EXTINGUISHING FOR PARTICULAR
OBJECTS OR PLACES

Prevention or containment .................................. 2/00
Flame traps ................................................. 4/00
For particular objects or places ..................... 3/00

MAKING FIRE-EXTINGUISHING
MATERIALS BEFORE USE ............................. 5/00
HAND TOOLS OR ACCESSORIES .................. 8/00
PORTABLE EXTINGUISHERS

According to operating principle ............ 11/00, 13/00, 19/00, 25/00
Knapsack type ........................................... 15/00

Pistol or rifle type ........................................ 17/00

FIRE-FIGHTING VEHICLES

Land vehicles ............................................ 27/00
Boats ................................................ 29/00

DELIVERY OF FIRE-EXTINGUISHING
MATERIALS ............................................. 31/00
HOSE ACCESSORIES .................................. 33/00
STATIONARILY-INSTALLED EQUIPMENT ....... 35/00
CONTROL OF FIRE-FIGHTING
EQUIPMENT ........................................... 37/00
OTHER METHODS, EQUIPMENT OR
ACCESSORIES ........................................... 39/00

2 / 00 Fire prevention or containment (A62C 3/00 takes precedence; flame traps A62C 4/00) [5]

2 / 04 Removing or cutting-off the supply of inflammable material [5]

2 / 06 Physical fire-barriers [5]

2 / 08 Water barriers (nozzles A62C 31/02) [5]

2 / 10 Fire-proof curtains [5]

2 / 12 Hinged dampers [5]

2 / 14 with two or more blades [5]

2 / 16 multi-vane roll or fold-up type [5]

2 / 18 Sliding dampers [5]

2 / 20 at 90 degrees to the plane of the opening [5]

2 / 22 Fire-dampers with provision for the removal of an obstacle, e.g. rails, conveyers, before closing the opening [5]

2 / 24 Operating or controlling mechanisms [5]

3 / 00 Fire prevention, containment or extinguishing specially adapted for particular objects or places (for nuclear reactors G21C 9/04) [5]

3 / 02 for area conflagrations, e.g. forest fires, subterranean fires [5]

3 / 04 for dust or loosely-baled or loosely-piled materials, e.g. in silos, in chimneys (fire traps A62C 4/00) [5]

3 / 06 of highly inflammable material, e.g. light metals, petroleum products [5]

3 / 07 in vehicles, e.g. in road vehicles [5]

3 / 08 in aircraft [5]
8 / 00  Hand tools or accessories specially adapted for fire-fighting, e.g. tool boxes [5]
8 / 02  . Buckets or pails [5]
8 / 04  . Rakes or beaters [5]
8 / 06  . Fire-blankets [5]
8 / 08  . Shields [5]
11 / 00  Portable extinguishers with manually-operated pumps [5]
13 / 00  Portable extinguishers which are permanently pressurised or pressurised immediately before use (A62C 11/00 takes precedence) [5]
13 / 02  . with pressure gas produced by chemicals
13 / 04  . with separate acid container
13 / 06  . with acid container without closure device
13 / 08  . with acid container with closure device
13 / 10  . with loose-lid closure device (loosely-engaging lids or covers for containers for liquids without means for effecting sealing of container in general B65D 51/02)
13 / 12  . with valve closure device
13 / 14  . with acid container the shell of which is ruptured by pin, screw-pin, or similar device
13 / 16  . with movable acid container ruptured by falling when operated
13 / 18  . with acid container ruptured by a striking weight, e.g. by a falling weight
13 / 20  . with the chemicals in a single case, e.g. in a cartridge
13 / 22  . with incendiary substances producing pressure gas
13 / 62  . with a single permanently pressurised container [5]
13 / 64  . the extinguishing material being released by means of a valve [5]
13 / 66  . with extinguishing material and pressure gas being stored in separate containers [5]
13 / 68  . characterised by means for releasing the extinguishing material [5]
13 / 70  . characterised by means for releasing the pressure gas [5]
13 / 72  . characterised by releasing means operating essentially simultaneously on both containers [5]
13 / 74  . the pressure gas container being pierced or broken [5]
13 / 76  . Details or accessories [5]
13 / 78  . Suspending or supporting devices [5]
15 / 00  Extinguishers essentially of the knapsack type (knapsacks, carrying-frames, pack-frames carried on the body A45F 3/00)
17 / 00  Hand fire-extinguishers essentially in the form of pistols or rifles
19 / 00  Hand fire-extinguishers in which the extinguishing substance is expelled by an explosion; Exploding containers thrown into the fire
25 / 00  Portable extinguishers with power-driven pumps [5]
27 / 00  Fire-fighting land vehicles (vehicle aspects, see the appropriate subclasses of classes B60 to B62)
29 / 00  Fire-fighting vessels or like floating structures (shipbuilding or navigation aspects, see the appropriate subclasses of class B63) [5]
31 / 00  Delivery of fire-extinguishing material (pumps F04; hoses F16L)
33 / 00  Hose accessories [5]
33 / 02  . Apparatus for cleaning or drying hoses (drying shelves F26B)
33 / 04  . Supports or clamps for fire hoses
33 / 06  . Hose or pipe bridges
35 / 00  Permanently-installed equipment (A62C 31/00, A62C 33/00, A62C 37/00 take precedence; for forming water curtains A62C 2/08)
35 / 02  . with containers for delivering the extinguishing substance (for forming water curtains A62C 2/08)
35 / 04  . Swingable or tiltable containers
35 / 06  . Containers destroyed or opened by falling [5]
35 / 08  . Containers destroyed or opened by bursting charge [5]
35 / 10  . Containers destroyed or opened by flames or heat [5]
35 / 11  . controlled by a signal from the danger zone [5]
35 / 13  . with a finite supply of extinguishing material [5]
35 / 15  . with a system for topping-up the supply of extinguishing material automatically [5]
35 / 20  . Hydrants, e.g. wall-hoses, wall units, plug-in cabinets (hydrants in streets E03B 9/02) [5]
35 / 58  . Pipe-line systems [5]
35 / 60  . wet, i.e. containing extinguishing material even when not in use [5]
35 / 62  . dry, i.e. containing extinguishing material even when not in use [5]
35 / 64  . pressurised [5]
35 / 68  . Details, e.g. of pipes or valve systems (valves in general F16K) [5]
37 / 00  Control of fire-fighting equipment (heat-sensitive devices G01K) [5]
37 / 08  . comprising an outlet device containing a sensor, or itself being the sensor, i.e. self-contained sprinklers [5]
37 / 09  . telescopic or adjustable [5]
37 / 10  . Releasing means, e.g. electrically released [5]
37 / 11  . heat-sensitive [5]
In this group, at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place. [2007.01]

This group does not cover:

- chemical or physico-chemical type processes where eradicating or diminishing the dangerousness of harmful chemical substances produces useful products, e.g. cement. These types of processes are covered by the appropriate subclass for making the specific product. However, in situations where processes for making products include a subset of process steps with eradicating or diminishing the dangerousness of a harmful chemical substance as its fundamental goal, and this subset is in itself novel and unobvious, this subset is covered by group A62D 3/00. [2007.01]

In this group, the following term is used with the meaning indicated:

- “harmful chemical substances” are chemical waste substances which are too hazardous or toxic to be discarded in an ordinary municipal landfill. [2007.01]

In this group, it is desirable to add the indexing code(s) of group A62D 101/00 relating to the nature of the harmful chemical substance. [2007.01]
Detoxification by using acid or alkaline reagents [2007.01]
by reduction, e.g. hydrogenation [2007.01]
by oxidation; by combustion [2007.01]
by heating to effect chemical change, e.g. by pyrolysis [2007.01]

Composition of materials for coverings or clothing affording protection against harmful chemical agents
Composition of materials for transparent parts of gas-masks, respirators, breathing bags, or helmets
Clear-view sheets which prevent the formation of water drops or ice (materials for minimising adherence of ice or water to surfaces C09K 3/18)

Composition of chemical substances for use in breathing apparatus (production of oxygen-generating compounds in general, processes for the production of oxygen from chemicals in general C01B 13/00, C25B 1/02)

Harmful chemical substances made harmless, or less harmful, by effecting chemical change [2007.01]

When indexing a substance in groups A62D 101/02 to A62D 101/08, indexing according to its chemical structure may also be made in one or more of groups A62D 101/20 to A62D 101/40. [2007.01]

Chemical warfare substances, e.g. cholinesterase inhibitors [2007.01]
Pesticides, e.g. insecticides, herbicides, fungicides or nematicides [2007.01]
Explosives, propellants or pyrotechnics, e.g. rocket fuel or napalm [2007.01]
Toxic combustion residues, e.g. toxic substances contained in fly ash from waste incineration [2007.01]
Organic substances [2007.01]
containing halogen [2007.01]
containing heavy metals [2007.01]
containing nitrogen or phosphorus [2007.01]
containing oxygen, sulfur, selenium or tellurium, i.e. chalcogen [2007.01]
Inorganic substances [2007.01]
containing heavy metals, in the bonded or free state [2007.01]
containing nitrogen or phosphorus [2007.01]
containing oxygen, sulfur, selenium or tellurium, i.e. chalcogen [2007.01]
containing halogen [2007.01]