

## SECTION A — HUMAN NECESSITIES

### A62 LIFE-SAVING; FIRE-FIGHTING

**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.....        | 99/00                      |

- 2/00 Fire prevention or containment** (A62C 3/00 takes precedence; flame traps A62C 4/00) [1, 5, 2006.01]
- 2/04 • Removing or cutting-off the supply of inflammable material [1, 5, 2006.01]
- 2/06 • Physical fire-barriers [5, 2006.01]
- 2/08 • • Water curtains (nozzles A62C 31/02) [5, 2006.01]
- 2/10 • • Fire-proof curtains [5, 2006.01]
- 2/12 • • Hinged dampers [5, 2006.01]
- 2/14 • • • with two or more blades [5, 2006.01]
- 2/16 • • • • multi-vane roll or fold-up type [5, 2006.01]
- 2/18 • • Sliding dampers [5, 2006.01]
- 2/20 • • • at 90 degrees to the plane of the opening [5, 2006.01]
- 2/22 • • Fire-dampers with provision for the removal of an obstacle, e.g. rails or conveyors, before closing the opening [5, 2006.01]
- 2/24 • • Operating or controlling mechanisms [5, 2006.01]
- 3/00 Fire prevention, containment or extinguishing specially adapted for particular objects or places** (for nuclear reactors G21C 9/04) [1, 5, 2006.01]
- 3/02 • for area conflagrations, e.g. forest fires, subterranean fires [1, 5, 2006.01]
- 3/04 • for dust or loosely-baled or loosely-piled materials, e.g. in silos, in chimneys (flame traps A62C 4/00) [1, 5, 2006.01]
- 3/06 • of highly inflammable material, e.g. light metals, petroleum products [1, 5, 2006.01]

- 3/07 • in vehicles, e.g. in road vehicles [5, 2006.01]
- 3/08 • • in aircraft [1, 5, 2006.01]
- 3/10 • • in ships [1, 5, 2006.01]
- 3/16 • in electrical installations, e.g. cableways [1, 5, 2006.01]

#### **4/00 Flame traps allowing passage of gas but not of flame or explosion wave** [2, 2006.01]

- 4/02 • in gas-pipes (safety valves F16K 17/00) [2, 2006.01]
- 4/04 • in flues or chimneys [2, 2006.01]

#### **5/00 Making of fire-extinguishing materials immediately before use** (nozzles A62C 31/02) [1, 5, 2006.01]

- 5/02 • of foam [1, 5, 2006.01]
- 5/027 • • Heavy foam [5, 2006.01]
- 5/033 • of gel [5, 2006.01]

#### Hand fire-extinguishers [5]

#### **8/00 Hand tools or accessories specially adapted for fire-fighting, e.g. tool boxes** [5, 2006.01]

- 8/02 • Buckets or pails [5, 2006.01]
- 8/04 • Rakes or beaters [5, 2006.01]
- 8/06 • Fire-blankets [5, 2006.01]
- 8/08 • Shields [5, 2006.01]

#### **11/00 Portable extinguishers with manually-operated pumps** [1, 5, 2006.01]

|              |                                                                                                                                                                                        |                                                                                                                                                             |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>13/00</b> | <b>Portable extinguishers which are permanently pressurised or pressurised immediately before use</b> (A62C 11/00 takes precedence) [1, 5, 2006.01]                                    |                                                                                                                                                             |
| 13/02        | • with pressure gas produced by chemicals [1, 2006.01]                                                                                                                                 | 31/02 • Nozzles specially adapted for fire-extinguishing [1, 5, 2006.01]                                                                                    |
| 13/04        | • • with separate acid container [1, 2006.01]                                                                                                                                          | 31/03 • • adjustable, e.g. from spray to jet or <u>vice-versa</u> [5, 2006.01]                                                                              |
| 13/06        | • • • with acid container without closure device [1, 2006.01]                                                                                                                          | 31/05 • • with two or more outlets [5, 2006.01]                                                                                                             |
| 13/08        | • • • with acid container with closure device [1, 2006.01]                                                                                                                             | 31/07 • • • for different media [5, 2006.01]                                                                                                                |
| 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) [1, 2006.01] | 31/12 • • for delivering foam or atomized foam [1, 2006.01]                                                                                                 |
| 13/12        | • • • • with valve closure device [1, 2006.01]                                                                                                                                         | 31/22 • • specially adapted for piercing walls, heaped materials, or the like [1, 2006.01]                                                                  |
| 13/14        | • • • with acid container the shell of which is ruptured by pin, screw-pin, or similar device [1, 2006.01]                                                                             | 31/24 • • attached to ladders, poles, towers, or other structures with or without rotary heads [1, 2006.01]                                                 |
| 13/16        | • • • with movable acid container ruptured by falling when operated [1, 2006.01]                                                                                                       | 31/28 • Accessories for delivery devices, e.g. supports [1, 2006.01]                                                                                        |
| 13/18        | • • • with acid container ruptured by a striking weight, e.g. by a falling weight [1, 2006.01]                                                                                         | <b>33/00</b> <b>Hose accessories</b> [1, 5, 2006.01]                                                                                                        |
| 13/20        | • • with the chemicals in a single case, e.g. in a cartridge [1, 2006.01]                                                                                                              | 33/02 • Apparatus for cleaning or drying hoses (drying shelves F26B) [1, 2006.01]                                                                           |
| 13/22        | • • with incendiary substances producing pressure gas [1, 2006.01]                                                                                                                     | 33/04 • Supports or clamps for fire hoses [1, 2006.01]                                                                                                      |
| 13/62        | • with a single permanently pressurised container [5, 2006.01]                                                                                                                         | 33/06 • Hose or pipe bridges [1, 2006.01]                                                                                                                   |
| 13/64        | • • the extinguishing material being released by means of a valve [5, 2006.01]                                                                                                         | <b>35/00</b> <b>Permanently-installed equipment</b> (A62C 31/00, A62C 33/00, A62C 37/00 take precedence; for forming water curtains A62C 2/08) [1, 2006.01] |
| 13/66        | • with extinguishing material and pressure gas being stored in separate containers [5, 2006.01]                                                                                        | 35/02 • with containers for delivering the extinguishing substance (for forming water curtains A62C 2/08) [1, 2006.01]                                      |
| 13/68        | • • characterised by means for releasing the extinguishing material [5, 2006.01]                                                                                                       | 35/04 • • Swingable or tiltable containers [1, 2006.01]                                                                                                     |
| 13/70        | • • characterised by means for releasing the pressure gas [5, 2006.01]                                                                                                                 | 35/06 • • Containers destroyed or opened by falling [1, 5, 2006.01]                                                                                         |
| 13/72        | • • characterised by releasing means operating essentially simultaneously on both containers [5, 2006.01]                                                                              | 35/08 • • Containers destroyed or opened by bursting charge [1, 5, 2006.01]                                                                                 |
| 13/74        | • • • the pressure gas container being pierced or broken [5, 2006.01]                                                                                                                  | 35/10 • • Containers destroyed or opened by flames or heat [1, 5, 2006.01]                                                                                  |
| 13/76        | • Details or accessories [5, 2006.01]                                                                                                                                                  | 35/11 • • controlled by a signal from the danger zone [5, 2006.01]                                                                                          |
| 13/78        | • • Suspending or supporting devices [5, 2006.01]                                                                                                                                      | 35/13 • • • with a finite supply of extinguishing material [5, 2006.01]                                                                                     |
| <b>15/00</b> | <b>Extinguishers essentially of the knapsack type</b> (knapsacks, carrying-frames, pack-frames carried on the body A45F 3/00) [1, 2006.01]                                             | 35/15 • • • with a system for topping-up the supply of extinguishing material automatically [5, 2006.01]                                                    |
| <b>17/00</b> | <b>Hand fire-extinguishers essentially in the form of pistols or rifles</b> [1, 2006.01]                                                                                               | 35/20 • Hydrants, e.g. wall-hoses, wall units, plug-in cabinets (hydrants in streets E03B 9/02) [1, 5, 2006.01]                                             |
| <b>19/00</b> | <b>Hand fire-extinguishers in which the extinguishing substance is expelled by an explosion; Exploding containers thrown into the fire</b> [1, 2006.01]                                | 35/58 • Pipe-line systems [5, 2006.01]                                                                                                                      |
| <b>25/00</b> | <b>Portable extinguishers with power-driven pumps</b> [1, 5, 2006.01]                                                                                                                  | 35/60 • • wet, i.e. containing extinguishing material even when not in use [5, 2006.01]                                                                     |
| <hr/>        |                                                                                                                                                                                        | 35/62 • • dry, i.e. empty of extinguishing material when not in use [5, 2006.01]                                                                            |
| <b>27/00</b> | <b>Fire-fighting land vehicles</b> (vehicle aspects, <u>see</u> the appropriate subclasses of classes B60-B62) [1, 2006.01]                                                            | 35/64 • • pressurised [5, 2006.01]                                                                                                                          |
| <b>29/00</b> | <b>Fire-fighting vessels or like floating structures</b> (shipbuilding or navigation aspects, <u>see</u> the appropriate subclasses of class B63) [1, 5, 2006.01]                      | 35/66 • • • Accelerators [5, 2006.01]                                                                                                                       |
| <b>31/00</b> | <b>Delivery of fire-extinguishing material</b> (pumps F04; hoses F16L) [1, 2006.01]                                                                                                    | 35/68 • • Details, e.g. of pipes or valve systems (valves in general F16K) [5, 2006.01]                                                                     |
|              |                                                                                                                                                                                        | <b>37/00</b> <b>Control of fire-fighting equipment</b> (heat-sensitive devices G01K) [1, 5, 2006.01]                                                        |
|              |                                                                                                                                                                                        | 37/08 • comprising an outlet device containing a sensor, or itself being the sensor, i.e. self-contained sprinklers [1, 5, 2006.01]                         |
|              |                                                                                                                                                                                        | 37/09 • • telescopic or adjustable [5, 2006.01]                                                                                                             |
|              |                                                                                                                                                                                        | 37/10 • • Releasing means, e.g. electrically released [1, 5, 2006.01]                                                                                       |
|              |                                                                                                                                                                                        | 37/11 • • • heat-sensitive [5, 2006.01]                                                                                                                     |
|              |                                                                                                                                                                                        | 37/12 • • • • with fusible links [1, 5, 2006.01]                                                                                                            |
|              |                                                                                                                                                                                        | 37/14 • • • • with frangible vessels [1, 5, 2006.01]                                                                                                        |
|              |                                                                                                                                                                                        | 37/16 • • • • with thermally-expansible links [1, 5, 2006.01]                                                                                               |
|              |                                                                                                                                                                                        | 37/20 • • Resetting after use; Tools therefor [1, 5, 2006.01]                                                                                               |

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| <p>37/21    • • • automatic [5, 2006.01]</p> <p>37/36    • an actuating signal being generated by a sensor<br/>separate from an outlet device [5, 2006.01]</p> <p>37/38    • • by both sensor and actuator, e.g. valve, being in<br/>the danger zone [5, 2006.01]</p> <p>37/40    • • • with electric connection between sensor and<br/>actuator [5, 2006.01]</p> <p>37/42    • • • with mechanical connection between sensor<br/>and actuator, e.g. rods, levers [5, 2006.01]</p> | <p>37/44    • • only the sensor being in the danger<br/>zone [5, 2006.01]</p> <p>37/46    • • Construction of the actuator [5, 2006.01]</p> <p>37/48    • • • Thermally sensitive initiators [5, 2006.01]</p> <p>37/50    • Testing or indicating devices for determining the state<br/>of readiness of the equipment [5, 2006.01]</p><br><p><b>99/00    Subject matter not provided for in other groups of<br/>this subclass [2010.01]</b></p> |
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