

## 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) [5]
- 2/04 • Removing or cutting-off the supply of inflammable material [5]
- 2/06 • Physical fire-barriers [5]
- 2/08 • • Water curtains (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 (flame 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]

- 3/10 • • in ships [5]
- 3/16 • in electrical installations, e.g. cableways [5]

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

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

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

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

#### Hand fire-extinguishers [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]**

<b>13/00</b>	<b>Portable extinguishers which are permanently pressurised or pressurised immediately before use</b> (A62C 11/00 takes precedence) [5]	31/24	• • attached to ladders, poles, towers, or other structures with or without rotary heads
13/02	• with pressure gas produced by chemicals	31/28	• Accessories for delivery devices, e.g. supports
13/04	• • with separate acid container	<b>33/00</b>	<b>Hose accessories</b> [5]
13/06	• • • with acid container without closure device	33/02	• Apparatus for cleaning or drying hoses (drying shelves F26B)
13/08	• • • with acid container with closure device	33/04	• Supports or clamps for fire hoses
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)	33/06	• Hose or pipe bridges
13/12	• • • • with valve closure device	<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)
13/14	• • • with acid container the shell of which is ruptured by pin, screw-pin, or similar device	35/02	• with containers for delivering the extinguishing substance (for forming water curtains A62C 2/08)
13/16	• • • with movable acid container ruptured by falling when operated	35/04	• • Swingable or tiltable containers
13/18	• • • with acid container ruptured by a striking weight, e.g. by a falling weight	35/06	• • Containers destroyed or opened by falling [5]
13/20	• • with the chemicals in a single case, e.g. in a cartridge	35/08	• • Containers destroyed or opened by bursting charge [5]
13/22	• • with incendiary substances producing pressure gas	35/10	• • Containers destroyed or opened by flames or heat [5]
13/62	• with a single permanently pressurised container [5]	35/11	• • controlled by a signal from the danger zone [5]
13/64	• • the extinguishing material being released by means of a valve [5]	35/13	• • • with a finite supply of extinguishing material [5]
13/66	• with extinguishing material and pressure gas being stored in separate containers [5]	35/15	• • • with a system for topping-up the supply of extinguishing material automatically [5]
13/68	• • characterised by means for releasing the extinguishing material [5]	35/20	• Hydrants, e.g. wall-hoses, wall units, plug-in cabinets (hydrants in streets E03B 9/02) [5]
13/70	• • characterised by means for releasing the pressure gas [5]	35/58	• Pipe-line systems [5]
13/72	• • characterised by releasing means operating essentially simultaneously on both containers [5]	35/60	• • wet, i.e. containing extinguishing material even when not in use [5]
13/74	• • • the pressure gas container being pierced or broken [5]	35/62	• • dry, i.e. empty of extinguishing material when not in use [5]
13/76	• Details or accessories [5]	35/64	• • pressurised [5]
13/78	• • Suspending or supporting devices [5]	35/66	• • • Accelerators [5]
<b>15/00</b>	<b>Extinguishers essentially of the knapsack type</b> (knapsacks, carrying-frames, pack-frames carried on the body A45F 3/00)	35/68	• • Details, e.g. of pipes or valve systems (valves in general F16K) [5]
<b>17/00</b>	<b>Hand fire-extinguishers essentially in the form of pistols or rifles</b>	<b>37/00</b>	<b>Control of fire-fighting equipment</b> (heat-sensitive devices G01K) [5]
<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>	37/08	• comprising an outlet device containing a sensor, or itself being the sensor, i.e. self-contained sprinklers [5]
<b>25/00</b>	<b>Portable extinguishers with power-driven pumps</b> [5]	37/09	• • telescopic or adjustable [5]
		37/10	• • Releasing means, e.g. electrically released [5]
		37/11	• • • heat-sensitive [5]
		37/12	• • • • with fusible links [5]
		37/14	• • • • with frangible vessels [5]
		37/16	• • • • with thermally-expandable links [5]
		37/20	• • Resetting after use; Tools therefor [5]
		37/21	• • • automatic [5]
		37/36	• an actuating signal being generated by a sensor separate from an outlet device [5]
<b>27/00</b>	<b>Fire-fighting land vehicles</b> (vehicle aspects, <u>see</u> the appropriate subclasses of classes B60-B62)	37/38	• • by both sensor and actuator, e.g. valve, being in the danger zone [5]
<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) [5]	37/40	• • • with electric connection between sensor and actuator [5]
<b>31/00</b>	<b>Delivery of fire-extinguishing material</b> (pumps F04; hoses F16L)	37/42	• • • with mechanical connection between sensor and actuator, e.g. rods, levers [5]
31/02	• Nozzles specially adapted for fire-extinguishing [5]	37/44	• • only the sensor being in the danger zone [5]
31/03	• • adjustable, e.g. from spray to jet or <u>vice-versa</u> [5]	37/46	• • Construction of the actuator [5]
31/05	• • with two or more outlets [5]	37/48	• • • Thermally sensitive initiators [5]
31/07	• • • for different media [5]	37/50	• Testing or indicating devices for determining the state of readiness of the equipment [5]
31/12	• • for delivering foam or atomized foam	<b>99/00</b>	<b>Subject matter not provided for in other groups of this subclass</b> [2010.01]
31/22	• • specially adapted for piercing walls, heaped materials, or the like		