

ECLA EUROPEAN CLASSIFICATION

A62C

FIRE-FIGHTING (fire-extinguishing compositions, use of chemical substances in extinguishing fires [A62D1/00](#); spraying, applying liquids or other fluent materials to surfaces in general B05; alarm arrangements G08B, e.g. fire alarms actuated by smoke or gases [G08B17/10](#))

A62C2/00

Fire prevention or containment ([A62C3/00](#) takes precedence; flame traps [A62C4/00](#))

A62C2/04

- . Removing or cutting-off the supply of inflammable material

A62C2/06

- . Physical fire-barriers

A62C2/06B

- . . [N: having as the main closure device materials, whose characteristics undergo an irreversible change under high temperatures, e.g. intumescent (intumescent materials forming part of the mechanism of another main closure device, see the relevant class)]

A62C2/08

- . . Water curtains ([nozzles A62C31/02](#))

A62C2/10

- . . Fire-proof curtains

A62C2/12

- . . Hinged dampers

A62C2/14

- . . . with two or more blades

A62C2/16

- multi-vane roll or fold-up type

A62C2/18

- . . Sliding dampers

A62C2/20

- . . . at 90 degrees to the plane of the opening

A62C2/22

- . . Fire-dampers with provision for the removal of an obstacle, e.g. rails, conveyers, before closing the opening

A62C2/24

- . . Operating or controlling mechanisms [N: (emergency operation of doors and windows [E05F1/00B](#), [E05F15/20C](#))] [C9906]

A62C2/24B

- . . . [N: having mechanical actuators and heat sensitive parts]

A62C2/24B2

- [N: with fusible links]

A62C2/24B4

- [N: with frangible elements]

A62C2/24B6

- [N: with thermostatic elements, e.g. bimetallic, resettable actuators]

A62C2/24D

- . . . [N: having non-mechanical actuators]

A62C2/24D2

- [N: electric]

A62C2/24D4

- [N: pneumatic]

A62C3/00

Fire prevention, containment or extinguishing specially adapted for particular objects or places ([N: in oil wells [E21B29/08](#), [A62C35/00](#); in mines or tunnels [E21F5/00](#)]; for nuclear reactors [G21C9/04](#))

A62C3/00A

- . [N: for warehouses, storage areas or other installations for storing goods] [N1204]

A62C3/00A2

- . . [N: for freezing warehouses and storages] [N1204]

A62C3/00C

- . [N: for kitchens or stoves] [N1204]

A62C3/00E

- . [N: for decorations, e.g. Christmas trees (Christmas tree decorations incorporating fire extinguishing or fire prevention means A47G33/08N; blowing or snuffing out

- mes F23Q25/00)] [N1204]
- A62C3/02 . for area conflagrations, e.g. forest fires, subterranean fires
 - A62C3/02B . . [N: by blowing air or gas currents with or without dispersion of fire extinguishing agents; Apparatus therefor, e.g. fans]
 - A62C3/02D . . [N: for buildings or installations in fire storms] [N1204]
 - A62C3/02F . . [N: for tunnels] [N1204]
 - A62C3/02H . . [N: with delivery of fire extinguishing material by air or aircraft (fire-fighting aircraft B64D1/16)] [N1204]
 - A62C3/02H2 . . . [N: by means of containers, e.g. buckets] [N1204]
 - A62C3/02H4 . . . [N: by spraying extinguishants from the aircraft (spraying from aircraft in general B64D1/16)] [N1204]
 - A62C3/02H6 . . . [N: Fire extinguishing bombs; Projectiles and launchers therefor (launching apparatus for projectiles, missiles or torpedoes in general F41F1/00, F41F3/00, F41F7/00)] [N1204]
 - A62C3/02J . . [N: Fire curtains, blankets, walls, fences] [N1204]
 - A62C3/02J2 . . . [N: by creating water curtains] [N1204]
 - A62C3/02N . . [N: Detection of area conflagration fires (fire alarms for forest fires G08B17/00F)] [N1204]
 - A62C3/02P . . [N: by creating zones devoid of flammable material] [N1204]
 - A62C3/02P1 . . . [N: with creation of a fire zone by an explosion or a counter-fire] [N1204]
 - A62C3/02R . . [N: by spraying extinguishants directly into the fire (A62C3/02H4 takes precedence)] [N1204]

 - A62C3/04 . for dust or loosely-baled or loosely-piled materials, e.g. in silos, in chimneys (flame traps [A62C4/00](#))

 - A62C3/06 . of highly inflammable material, e.g. light metals, petroleum products
 - A62C3/06B . . [N: for containers filled with inflammable liquids] [N9602]

 - A62C3/07 . in vehicles, e.g. in road vehicles
 - A62C3/08 . . in aircraft [N: ([A62C3/02B](#) takes precedence)]
 - A62C3/10 . . in ships [N: ([A62C3/02B](#) takes precedence)]

 - A62C3/14 . [N: IPC4] in connection with doors, windows, ventilators, partitions, or shutters, e.g. automatic closing

 - A62C3/16 . in electrical installations, e.g. cableways

 - A62C4/00** **Flame traps allowing passage of gas but not of flame or explosion wave**

 - A62C4/02 . in gas-pipes (safety valves [F16K17/00](#))
 - A62C4/04 . in flues or chimneys

 - A62C5/00** **Making of fire-extinguishing materials immediately before use (nozzles [A62C31/02](#))**

 - A62C5/00B . [N: Apparatus for mixing extinguishants with water] [N9602]

- A62C5/00C . [N: for producing carbon-dioxide snow, carbon-dioxide ice, carbon-dioxide gas, carbon-dioxide liquid, or mixtures thereof (**carbon-dioxide jet-pipes or snow jet-pipes** [A62C31/03](#))] [N0905]
- A62C5/00D . [N: Extinguishants produced by combustion] [N9905]
- A62C5/00M . [N: for producing other mixtures of different gases or vapours, water and chemicals, e.g. water and wetting agents, water and gases] [N0905]
- A62C5/02 . of foam
- A62C5/02A . . [N: with air or gas present as such] [N0905]
- A62C5/02A2 . . . [N: Apparatus in the form of pipes (**jet-pipes for foam** [A62C31/12](#))] [N0905]
- A62C5/027 . . Heavy foam
- A62C5/033 . of gel

Guide heading: **Hand fire-extinguishers**

A62C8/00 **Hand tools or accessories specially adapted for fire-fighting, e.g. tool boxes**

- A62C8/00B . [N: Receptacles or other utensils for water carrying; Bombs filled with extinguishing agents] [N9602]
- A62C8/02 . Buckets or pails
- A62C8/04 . Rakes or beaters
- A62C8/06 . Fire-blankets
- A62C8/08 . Shields

A62C11/00 **Portable extinguishers with manually-operated pumps**

- A62C11/00B . [N: Receptacles of extinguishing agent with manually operable pump] [N9602]

A62C13/00 **Portable extinguishers which are permanently pressurised or pressurised immediately before use ([A62C11/00](#) takes precedence)**

- A62C13/00B . [N: Extinguishers with spraying and projection of extinguishing agents by pressurised gas] [N9602]
- A62C13/00D . [N: for the propulsion of extinguishing powder][N9602]
- A62C13/02 . with pressure gas produced by chemicals
- A62C13/04 . . with separate acid container
- A62C13/06 . . . with acid container without closure device
- A62C13/08 . . . with acid container with closure device

- A62C13/10 with loose-lid closure device ([loosely-engaging lids or covers for containers for liquids without means for effecting sealing of container in general B65D51/02](#))
- A62C13/12 with valve closure device
- A62C13/14 . . . with acid container the shell of which is ruptured by pin, screw-pin, or similar device
- A62C13/16 . . . with movable acid container ruptured by falling when operated
- A62C13/18 . . . with acid container ruptured by a striking weight, e.g. by a falling weight
- A62C13/20 . . with the chemicals in a single case, e.g. in a cartridge
- A62C13/22 . . with incendiary substances producing pressure gas

- A62C13/62 . with a single permanently pressurised container
- A62C13/64 . . the extinguishing material being released by means of a valve

- A62C13/66 . with extinguishing material and pressure gas being stored in separate containers
- A62C13/68 . . characterised by means for releasing the extinguishing material
- A62C13/70 . . characterised by means for releasing the pressure gas
- A62C13/72 . . characterised by releasing means operating essentially simultaneously on both containers
- A62C13/74 . . . the pressure gas container being pierced or broken

- A62C13/76 . Details or accessories
- A62C13/78 . . Suspending or supporting devices

- A62C15/00** **Extinguishers essentially of the knapsack type** ([knapsacks, carrying-frames, pack-frames carried on the body A45F3/00](#))

- A62C17/00** **Hand fire-extinguishers essentially in the form of pistols or rifles**

- A62C19/00** **Hand fire-extinguishers in which the extinguishing substance is expelled by an explosion; Exploding containers thrown into the fire**

- A62C25/00** **Portable extinguishers with power-driven pumps**
- A62C25/00B . [\[N: Accessories\] \[N9602\]](#)

- Guide heading:** **Fire-fighting vehicles** ([A62C31/00, A62C33/00, A62C37/00 take precedence; vehicle aspects, see the appropriate subclasses of B60 to B64, e.g. fire-fighting aircraft B64D1/16](#))

- A62C27/00** **Fire-fighting land vehicles**

- A62C29/00** **Fire-fighting vessels or like floating structures**

- A62C31/00** **Delivery of fire-extinguishing material** (pumps [F04](#); [\[N: suction or pressure\] hoses, \[N: joints or couplings therefor\] F16L](#))

- A62C31/00B . [N: using nozzles (see warning after subclass title)] [N9602]
- A62C31/02 . Nozzles specially adapted for fire-extinguishing
- A62C31/03 . . adjustable, e.g. from spray to jet or vice-versa
- A62C31/05 . . with two or more outlets
- A62C31/07 . . . for different media
- A62C31/12 . . for delivering foam or atomised foam
- A62C31/22 . . specially adapted for piercing walls, heaped materials, or the like
- A62C31/24 . . attached to ladders, poles, towers, or other structures with or without rotary heads
- A62C31/28 . Accessories for delivery devices, e.g. supports

A62C33/00 **Hose accessories**

- A62C33/02 . Apparatus for cleaning or drying hoses (drying shelves [F26B](#))
- A62C33/04 . Supports or clamps for fire hoses
- A62C33/06 . Hose or pipe bridges

Guide heading: **Permanently-installed equipment**

A62C35/00 **Permanently-installed equipment** ([A62C31/00](#), [A62C33/00](#), [A62C37/00](#) take precedence; for forming water curtains [A62C2/08](#))

- A62C35/02 . with containers for delivering the extinguishing substance
- A62C35/02B . . [N: the extinguishing material being expelled by compressed gas, taken from storage tanks, or by generating a pressure gas (for foam generation [A62C5/02](#))]
- A62C35/02D . . [N: the extinguishing material being put under pressure by means other than pressure gas, e.g. pumps]
- A62C35/04 . . Swingable or tiltable containers
- A62C35/06 . . Containers destroyed or opened by falling
- A62C35/08 . . Containers destroyed or opened by bursting charge
- A62C35/10 . . Containers destroyed or opened by flames or heat
- A62C35/11 . . controlled by a signal from the danger zone
- A62C35/13 . . . with a finite supply of extinguishing material
- A62C35/15 . . . with a system for topping-up the supply of extinguishing material automatically
- A62C35/20 . Hydrants, e.g. wall-hoses, wall units, plug-in cabinets (hydrants in streets [E03B9/02](#)) [\[C9604\]](#)
- A62C35/58 . Pipe-line systems
- A62C35/60 . . wet, i.e. containing extinguishing material even when not in use
- A62C35/60B . . . [N: operating and sounding alarm automatically (see warning after subclass title)] [N9602]

- A62C35/62 . . . dry, i.e. empty of extinguishing material when not in use
- A62C35/64 . . . pressurised
- A62C35/64B [N: with compressed gas in pipework (see warning after subclass title)] [N9602]
- A62C35/66 Accelerators
- A62C35/68 . . . Details, e.g. of pipes or valve systems (valves in general [F16K](#))

A62C37/00 **Control of fire-fighting equipment (heat-sensitive devices [G01K](#))**

[N: WARNING

[C9803]Groups [A62C37/04](#) and [A62C37/28](#) are no longer used for the classification of new documents. Documents of these groups will be systematically transferred to groups [A62C37/36](#) to [A62C37/48](#)

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- A62C37/04 . . [N: [IPC4](#)] with electrically-controlled release
 - A62C37/08 . . comprising an outlet device containing a sensor, or itself being the sensor, i.e. self-contained sprinklers
 - A62C37/09 . . . telescopic or adjustable
 - A62C37/10 . . . Releasing means, e.g. electrically released
 - A62C37/11 heat-sensitive
 - A62C37/12 with fusible links
 - A62C37/14 with frangible vessels
 - A62C37/16 with thermally-expansible links
 - A62C37/20 . . . Resetting after use; Tools therefor
 - A62C37/21 automatic
 - A62C37/28 . . . [N: [IPC4](#)] with an explosive charge
 - A62C37/36 . . an actuating signal being generated by a sensor separate from an outlet device
- [N: WARNING**
- Groups [A62C37/36](#) to [A62C37/48](#) are not complete. See also [A62C37/02](#) to [A62C37/04](#) and [A62C37/26](#) to [A62C37/34](#)
-]**
- A62C37/38 . . . by both sensor and actuator, e.g. valve, being in the danger zone
 - A62C37/40 with electric connection between sensor and actuator
 - A62C37/42 with mechanical connection between sensor and actuator, e.g. rods, levers
 - A62C37/44 . . . only the sensor being in the danger zone
 - A62C37/46 . . . Construction of the actuator
 - A62C37/48 Thermally sensitive initiators
 - A62C37/50 . . . Testing or indicating devices for determining the state of readiness of the equipment

A62C99/00 **Subject matter not provided for in other groups of this subclass [N1010]**

- A62C99/00B . . [N: Methods of extinguishing or preventing the spread of fire by cooling down or suffocating the flames] [N1010]

- A62C99/00B2 . . [N: using gases or vapours that do not support combustion, e.g. steam, carbon dioxide] [N1010]
- A62C99/00B2B . . . [N: Carbon dioxide extinguishers] [N1010]
- A62C99/00B4 . . [N: using foam] [N1010]
- A62C99/00B6 . . [N: using solid substances, e.g. sand, ashes; using substances forming a crust] [N1010]
- A62C99/00B8 . . [N: using counter-fire] [N1010]
- A62C99/00B10 . . [N: with simultaneous removal of inflammable materials] [N1010]
- A62C99/00B12 . . [N: using sprayed or atomised water] [N1010]

- A62C99/00D . [N: Training methods or equipment for fire-fighting] [N1010]

- A62C99/00F . [N: Methods or equipment not provided for in groups [A62C99/00B](#) to [A62C99/00D](#)] [N1010]