

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)

Definition statement

This subclass/group covers:

Devices, apparatus and methods to prevent fires from happening, and to fight or contain active fires.

References relevant to classification in this subclass

This subclass/group does not cover:

Fire-extinguishing compositions	A62D 1/00
Fireproofing materials	C09K 21/00
Fire alarms and detectors	G08B 17/00

A62C 2/00

Fire prevention or containment

Definition statement

This subclass/group covers:

Devices to prevent or contain fires.

References relevant to classification in this group

This subclass/group does not cover:

Devices for specific objects or places	A62C 3/00
Flame traps allowing air to pass, but not flames	A62C 4/00

Informative references

Attention is drawn to the following places, which may be of interest for search:

Methods to fight fires (e.g. by inerting)	A62C 99/00
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Glossary of terms

In this subclass/group, the following terms (or expressions) are used with the meaning indicated:

Intumescent	permanently changing properties under the influence of high temperatures, best known example is graphite, which expands when subjected to large amounts of heat, thus forming a layer which isolates one side from the heat on the other side
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A62C 2/06

Physical fire-barriers

Definition statement

This subclass/group covers:

Devices which physically prevent fire from passing the point where the device is installed.

References relevant to classification in this group

This subclass/group does not cover:

Layered materials	B32B
Fire proof paints or coatings	C09D 5/18
Fireproofing materials	C09K 21/00

Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for use where pipes or similar pass through walls or partitions	F16L 5/00 , F16L 5/04
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Curtains	E06B
Emergency operation for doors and windows	E05F 1/002 , E05F 15/2015
Air-flow control members for ventilation, air-conditioning or similar	F24F 13/10

A62C 3/00

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)

Definition statement

This subclass/group covers:

Devices and Methods which are used for specific circumstances or in specific places.

References relevant to classification in this group

This subclass/group does not cover:

Fire fighting in oil wells	E21B 35/00
Prevention of fires in mines or tunnels	E21F 5/00
In turbines or jet engines	F02C 7/25
For nuclear reactors	G21C 9/04

Informative references

Attention is drawn to the following places, which may be of interest for search:

Christmas tree decorations including fire fighting/fire prevention means	A47G 33/0872
Prevention of fire due to dust build-up	E21F 5/00
Floating covers for liquids in large	B65D 88/34

containers	
Forming a firebreak device for pipes, cables or similar passing through walls or partitions	F16L 5/04
Heat or fire protective means for installations of cables or lines in buildings or vehicles	H02G 3/0412
Extinguishing-devices, e.g. for blowing-out or snuffing candle flames	F23Q 25/00
Extinguishing devices for cigarettes, pipes, ash-trays, etc...	A24F

A62C 4/00

Flame traps allowing passage of gas but not of flame or explosion wave

Definition statement

This subclass/group covers:

Devices which stop the expansion of pressure waves or fires by their constructional features, e.g. by cooling down the passing gas, thus suffocating the flame.

References relevant to classification in this group

This subclass/group does not cover:

Pressure relief valves/safety valves	F16K 17/00
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A62C 5/00

Making of fire-extinguishing materials immediately before use (nozzles A62C31/02)

Definition statement

This subclass/group covers:

Devices and methods which allow the preparing of extinguishants directly before use, e.g. by mixing water and additives on their way to the

fire-extinguishing nozzle.

References relevant to classification in this group

This subclass/group does not cover:

Nozzles for fire-extinguishing	A62C 31/02
Chemical composition of fire extinguishants	A62D 1/00

Informative references

Attention is drawn to the following places, which may be of interest for search:

Flow mixers for foam	B01F 5/0406
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A62C 8/00

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

A62C 11/00

Portable extinguishers with manually-operated pumps

A62C 13/00

Portable extinguishers which are permanently pressurised or pressurised immediately before use (A62C11/00 takes precedence)

References relevant to classification in this group

This subclass/group does not cover:

Portable fire extinguisher with manually-operated pumps	A62C 11/00
Filling of pressurized vessels	F17C 13/00

Informative references

Attention is drawn to the following places, which may be of interest for search:

Pressurized containers/vessels	F17C 1/00
Mounting devices for pressurized containers	F17C 13/08

A62C 15/00

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

References relevant to classification in this group

This subclass/group does not cover:

Supporting devices for portable extinguishers	A62C 13/78
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Knapsacks, carrying-frames, pack-frames carried on the body	A45F 3/00
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A62C 17/00

Hand fire-extinguishers essentially in the form of pistols or rifles

A62C 19/00

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

Informative references

Attention is drawn to the following places, which may be of interest for search:

Launchers for projectiles	F41F
Explosive charges in projectiles	F42B 12/00

A62C 25/00

Portable extinguishers with power-driven pumps

A62C 27/00

Fire-fighting land vehicles

A62C 29/00

Fire-fighting vessels or like floating structures

Definition statement

This subclass/group covers:

Vehicles or platforms floating in water adapted to fight fires (on other ships or platforms).

References relevant to classification in this group

This subclass/group does not cover:

Fire extinguishing in ships or other vessels floating in water	A62C 3/10
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Fire extinguishing in ships	A62C 3/10
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A62C 31/00

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

Definition statement

This subclass/group covers:

Devices which are used to deliver the fire-extinguishants to the point where they are needed.

References relevant to classification in this group

This subclass/group does not cover:

Hose accessories specific to fire fighting	A62C 33/00
Outlets combined with sensors (sprinklers)	A62C 37/08
Hydrants in streets	E03B 9/02
Pumps	F04
Hoses and accessories therefore	F16L

Informative references

Attention is drawn to the following places, which may be of interest for search:

Fire-extinguishing sprinklers with integrated fire sensor (e.g. glass bulb)	A62C 37/08
Nozzles	B05B 1/00
Water cannons	F41B 9/00

A62C 33/00

Hose accessories

Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for coupling hoses	F16L
Reels for filamentary or thin materials	B65H 75/00
Making tubes of special shapes, e.g. T-splits, connecting pieces	B21C 37/15

Special rules of classification within this group

Since most devices for collecting fire hoses do this by ensuring that the fire hose is empty (thus dry), devices for collecting hoses are in [A62C 33/02](#).

A62C 35/00

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

References relevant to classification in this group

This subclass/group does not cover:

Devices for forming water curtains	A62C 2/08
Delivery of fire-extinguishing material	A62C 31/00
Control of fire fighting equipment	A62C 37/00

A62C 37/00

Control of fire-fighting equipment (heat-sensitive devices G01K)

References relevant to classification in this group

This subclass/group does not cover:

Fire alarms	G08B 17/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Heat-sensitive devices in general	G01K
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A62C 99/00

Subject matter not provided for in other groups of this subclass

Definition statement

This subclass/group covers:

This group cover:

Special methods of fire fighting (e.g. inerting), training methods and equipment for training fire-fighting as well as any devices for fire-fighting which cannot be classified in other groups.

References relevant to classification in this group

This subclass/group does not cover:

Heat-resistant garments	A62B 17/00
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Special rules of classification within this group

If devices use certain methods which are represented by a subgroup in [A62B 99/00](#), they will be classified in the respective device group and in the respective method group. For example, devices to inert luggage compartments of airplanes will be classified in [A62C 3/08](#) and [A62C 99/0018](#).