

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](#); alarm arrangements [G08B](#), e.g. fire alarms actuated by smoke or gases [G08B 17/10](#))

Definition statement

This place covers:

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

References

Limiting references

This place does not cover:

Fire-extinguishing compositions	A62D 1/00
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Informative references

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

Spraying, applying liquids or other fluent materials to surfaces in general	B05
Fireproofing materials	C09K 21/00
Fire alarms and detectors without automatic activation	G08B 17/00

A62C 2/00

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

Definition statement

This place covers:

Devices to prevent or contain fires.

References

Limiting references

This place 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 place, 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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Physical fire-barriers

Definition statement

This place covers:

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

References

Limiting references

This place 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:

Emergency operation for doors and windows	E05F 1/002 , E05F 15/72
Curtains	E06B
Devices for use where pipes or similar pass through walls or partitions	F16L 5/00 , F16L 5/04
Air-flow control members for ventilation, air-conditioning or similar	F24F 13/10

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{having as the main closure device materials, whose characteristics undergo an irreversible change under high temperatures, e.g. intumescent}

References

Informative references

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

Laminated safety glass or glazing with intumescent layers for fire protection	B32B 17/10311
Fireproof doors or similar closures, or adaptations of fixed constructions therefor, with sealing arrangements between the door or window and its frame, e.g. intumescent seals specially adapted therefor	E06B 5/164

Flameproof or explosion-proof arrangements structurally associated with lighting devices using intumescent material, i.e. using materials which swells up as a result of heat exposure	F21V 25/125
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Fire prevention, containment or extinguishing specially adapted for particular objects or places ({in oil wells [E21B 29/08](#), [A62C 35/00](#); in mines or tunnels [E21F 5/00](#) } ; for nuclear reactors [G21C 9/04](#))

Definition statement

This place covers:

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

References

Limiting references

This place 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:

Extinguishing devices for cigarettes, pipes, ash-trays, etc...	A24F
Christmas tree decorations including fire fighting/fire prevention means	A47G 33/0872
Floating covers for liquids in large containers	B65D 88/34
Prevention of fire due to dust build-up	E21F 5/00
Forming a firebreak device for pipes, cables or similar passing through walls or partitions	F16L 5/04
Extinguishing-devices, e.g. for blowing-out or snuffing candle flames	F23Q 25/00
Heat or fire protective means for installations of cables or lines in buildings or vehicles	H02G 3/0412

A62C 4/00

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

Definition statement

This place 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

Limiting references

This place 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 [A62C 31/02](#))

Definition statement

This place 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

Limiting references

This place 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 25/3111
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A62C 13/00

Portable extinguishers which are permanently pressurised or pressurised immediately before use ([A62C 11/00](#) takes precedence)

References

Limiting references

This place 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 [A45F 3/00](#))

References**Limiting references**

This place 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 19/00

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

References**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 29/00

Fire-fighting vessels or like floating structures

Definition statement

This place covers:

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

References**Limiting references**

This place 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](#); {suction or pressure} hoses, {joints or couplings therefor} [F16L](#))

Definition statement

This place covers:

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

References

Limiting references

This place does not cover:

Pumps	F04
Hoses and accessories therefore	F16L

Informative references

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

Hose accessories specific to fire fighting	A62C 33/00
Fire-extinguishing sprinklers with integrated fire sensor (e.g. glass bulb)	A62C 37/08
Nozzles, spray heads or other outlets, with or without auxiliary devices such as valves or heating means	B05B 1/00
Hydrants in streets	E03B 9/02
Water cannons	F41B 9/00

A62C 33/00

Hose accessories

References

Informative references

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

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

Special rules of classification

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 ([A62C 31/00](#), [A62C 33/00](#), [A62C 37/00](#) take precedence; for forming water curtains [A62C 2/08](#))

References

Limiting references

This place 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

Informative references

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

Heat-sensitive devices in general	G01K
Fire alarms without automatic activation	G08B 17/00

A62C 99/00

Subject matter not provided for in other groups of this subclass

Definition statement

This place covers:

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

Limiting references

This place does not cover:

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

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](#).