

F 25 D REFRIGERATORS; COLD ROOMS; ICE-BOXES; COOLING OR FREEZING APPARATUS NOT COVERED BY ANY OTHER SUBCLASS (refrigerated showcases [A 47 F 3/04](#); thermally-insulated vessels for domestic use [A 47 J 41/00](#); refrigerated vehicles, see the appropriate subclasses of classes [B 60](#) to [B 64](#); containers with thermal insulation in general [B 65 D 81/38](#); heat-transfer, heat-exchange or heat-storage materials, e.g. refrigerants, or materials for the production of heat or cold by chemical reactions other than by combustion [C 09 K 5/00](#); thermally-insulated vessels for liquefied or solidified gases [F 17 C](#); air-conditioning or air-humidification [F 24 F](#); refrigeration machines, plants, or systems [F 25 B](#); cooling of instruments or comparable apparatus without refrigeration [G 12 B](#); cooling of engines or pumps, see the relevant classes)

Notes

- (1) In this subclass, the following term is used with the meaning indicated:
 – “device” means an enclosed space to be cooled; such devices being associated either with refrigerating machinery, e.g. in a refrigerator, or with other cold sources, e.g. in an ice-box.
- (2) Attention is drawn to Note (2) following the title of subclass [F 24 F](#). [5]

Subclass Index

DEVICES NOT ASSOCIATED WITH REFRIGERATING MACHINERY

- Using cold air or water; other cold materials or bodies1/00; 3/00
- Using endothermic chemical reactions, or evaporation without recovery5/00, 7/00
- Other devices, combinations9/00

- DEVICES ASSOCIATED WITH REFRIGERATING MACHINERY: SELF-CONTAINED MOVABLE; STATIONARY; OTHER11/00; 13/00; 15/00, 16/00

- STRUCTURAL PARTS OR ARRANGEMENTS, OF GENERAL APPLICATION: GENERAL; DEFROSTING; HANDLING OF ARTICLES TO BE COOLED 23/00; 21/00; 25/00
- CIRCULATING COOLING FLUID OR GAS; LIGHTING 17/00; 27/00
- ARRANGEMENT OR MOUNTING: OF REFRIGERATION UNITS; OF CONTROL OR SAFETY DEVICES 19/00; 29/00
- OTHER APPARATUS 31/00

Devices not associated with refrigerating machinery

- 1/00 Devices using naturally-cold air or water**
 1/02 . using naturally-cold water, e.g. household-tap water
- 3/00 Devices using other cold materials; Devices using cold-storage bodies**
 3/02 . using ice, e.g. ice-boxes
 3/04 . . Stationary cabinets
 3/06 . . Movable containers
 3/08 . . . portable, i.e. adapted to be carried personally
 3/10 . using liquefied gases, e.g. liquid air
 3/11 . . with conveyers carrying articles to be cooled through the cooling space [4]
 3/12 . using solidified gases, e.g. carbon-dioxide snow
 3/14 . . portable, i.e. adapted to be carried personally
- 5/00 Devices using endothermic chemical reactions, e.g. using frigorific mixtures**
 5/02 . portable, i.e. adapted to be carried personally
- 7/00 Devices using evaporation effects without recovery of the vapour** (butter or cheese dishes with cooling devices [A 47 G 19/26](#))
- 9/00 Devices not covered by groups 1/00 to 7/00; Combinations of devices covered by two or more of the groups 1/00 to 7/00**

Devices associated with refrigerating machinery

- 11/00 Self-contained movable devices, e.g. domestic refrigerator**
 11/02 . with cooling compartments at different temperatures
 11/04 . specially adapted for storing deep-frozen articles (11/02 takes precedence)
- 13/00 Stationary devices, e.g. cold rooms**
 13/02 . with several cooling compartments, e.g. refrigerated locker systems
 13/04 . . the compartments being at different temperatures
 13/06 . with conveyers carrying articles to be cooled through the cooling space
- 15/00 Devices not covered by group 11/00 or 13/00, e.g. non-self-contained movable devices**
- 16/00 Devices using a combination of a cooling mode associated with refrigerating machinery with a cooling mode not associated with refrigerating machinery [5]**

Details or features of the devices covered by groups 1/00 to 16/00 [5]

- 17/00 Arrangements for circulating cooling fluids; Arrangements for circulating gas, e.g. air, within refrigerated spaces [3]**
 17/02 . for circulating liquids, e.g. brine
 17/04 . for circulating gas, e.g. by natural convection [3]
 17/06 . . by forced circulation
 17/08 . . . using ducts

F 25 D

19/00 Arrangement or mounting of refrigeration units with respect to devices

- 19/02 . plug-in type
- 19/04 . with more than one refrigeration unit

21/00 Defrosting; Preventing frosting; Removing condensed or defrost water (removing ice or water from heat-exchange apparatus in general [F 28 F 17/00](#); heating arrangements specially adapted for transparent or reflecting areas [H 05 B 3/84](#))

- 21/02 . Detecting the presence of frost or condensate
- 21/04 . Preventing the formation of frost or condensate
- 21/06 . Removing frost (defrosting cycles [F 25 B 47/02](#))
- 21/08 . . by electric heating
- 21/10 . . by spraying with fluid
- 21/12 . . by hot-fluid circulating system separate from the refrigerant system
- 21/14 . Collecting or removing condensed and defrost water; Drip trays

23/00 General constructional features ([21/00](#) takes precedence)

- 23/02 . Doors; Covers ([23/08](#) takes precedence)

- 23/04 . . with special compartments, e.g. butter conditioners

- 23/06 . Walls ([23/08](#) takes precedence; containers with thermal insulation [B 65 D 81/38](#)) [[4](#)]

- 23/08 . Parts formed wholly or mainly of plastics materials

- 23/10 . Arrangements for mounting in particular locations, e.g. for built-in type, for corner type

- 23/12 . Arrangements of compartments additional to cooling compartments; Combinations of refrigerators with other equipment, e.g. stove

25/00 Charging, supporting, or discharging the articles to be cooled

- 25/02 . by shelves
- 25/04 . by conveyers (in general [B 65 G](#))

27/00 Lighting arrangements (in general [F 21](#))

29/00 Arrangement or mounting of control or safety devices

31/00 Other cooling or freezing apparatus