

Explanation of subject matter and relationships with other headings

This heading is primarily concerned with the structural organisation of containers, and the construction of parts thereof, which in the main are portable, *ie* are manually manipulable, are essentially self-sustaining, *ie* have a configuration before filling substantially similar to that when filled, are intended to contain or are suitable for containing fluent material

Typical of such containers are:

- . barrels, casks or kegs
- . bottles
- . cans
- . jars
- . “squeeze-to-empty” containers, *eg* toothpaste tubes

Certain container ancillary devices such as can-openers are also dealt with by the heading.

The above should be taken as a guide to the subject matter of the heading rather than as a definition thereof

Interpretation of terms:

- . container: this term should be interpreted in the light of the forgoing paragraphs
- . body wall(s): those walls which essentially determine the volume available for contents
- . end wall(s): those walls whose essential function, when connected to the body wall(s), is to prevent escape of the contents
- . container parts: parts, *other than* body and end walls, which are commonly found in container constructions, *eg* handles; pouring devices *eg* spouts; attached or integral opening means; chimes; feet; reinforcing pieces
- . “squeeze-to-empty” containers: these containers have side and/or end walls which are intended to be deformed, usually manually, in order to express or extrude the contents. Two main types exist, *viz.*
  - . . those wherein the walls are resilient and automatically recover their predeformation configuration when deforming pressure is removed; the contents are usually liquid or gaseous
  - . . those wherein the walls do not recover after deformation; the contents are usually sufficiently viscous to allow extrusion thereof from the container. Typical of this type are toothpaste tubes. Hereinafter containers of the latter type will be referred to as “squeeze-to-empty containers of the toothpaste kind”

1. Organisation of containers; with the exception of containers made from staves this is related, in the Classifying Schedule that follows, either to a specific function, *eg* mixing or removing contents, or to a particular configuration, *eg* such as to facilitate stacking or nesting. Also included are container assemblies wherein the containers of the assembly have a working relationship with each other, while assembled, in order to perform analogous functions. The following list of types of container dealt with by other headings is non-exhaustive. Certain subjects to be found in the Classifying Schedule that follows necessarily have close affinity with subject matter to be found in one or more of these headings *eg* stacking and nesting is to be found in at least headings A4A, Portable vessels, table articles &c, B8P, Boxes and cases; emptying by raising fluent material is to be found in F1R, Raising and discharging liquids &c

Excluded are:

- . portable vessels for cooking and other domestic uses—A4A, Portable vessels, table articles &c. Typical of such are:
  - . . basins and bowls
  - . . buckets and pails
  - . . kitchen utensils such as baking pans, kettles, frying pans, saucepans
  - . . refuse bins
  - . . tableware such as salt cellars, jugs, tea and coffee pots, egg cups, cups and beakers
  - . . watering cans
- . containers for which specific provision is made in heading A4G, Bags, baskets, cases &c. The main provisions are for:
  - . . baskets of wickerwork
  - . . hat boxes
  - . . knapsacks
  - . . ladies' handbags
  - . . portmanteaux, suitcases and trunks of mainly non-rigid form
  - . . bed pans—A4N, Baths, basins &c
  - . . fire extinguishers—A5A, Fire-fighting &c
  - . . vessels for disinfecting by means of gases and vapours—A5G, Disinfecting, fumigating &c
  - . . feeding bottles—A5X, Miscellaneous bodily comforts
  - . . chemical flasks and other chemical laboratory apparatus—*Such headings as* B1X, Miscellaneous chemical apparatus &c., C6F, Microbiology &c; G1B, Chemical analysis, testing &c

Explanation of heading—cont

Excluded are:

- . small closed containers for a single medical dose or use—B8C, Packaging &c
- . skips (*other than* flexible skips), tip boxes and tip buckets—B8H, Load shifting apparatus &c
- . bags, sacks, envelopes and the like and flexible skips—B8K, Paper and like bags &c
- . containers for measuring capacity—B8N, Metering fluent material &c
- . boxes and cases—B8P, Boxes and cases. The main subject matter of this heading is concerned with portable or transportable
  - . . containers made by folding-up initially flat blanks of cardboard and like material
  - . . containers of skeleton construction (*other than* those of wickerwork) and those made from framework and panelling
  - . . containers wherein the interest resides in internal arrangements for holding and protecting individual articles
  - . . bulk storage containers, *eg* ISO containers
- . bulk storage containers, *eg* silos, granaries, reservoirs made by civil engineering or building techniques; domestic cold water tanks—E1T, Tanks, silos &c
- . containers from which fluent contents are discharged by the application of pneumatic, hydraulic or piston or diaphragm pressure, *eg* aerosols; siphon bottles; syringes—F1R, Raising and discharging liquids &c
- . lubricating cans and other portable containers for applying lubricants—F2A, Bearings, lubricating &c
- . bottles for storing air—F4P, Gas storing, liquefying &c
- . heat-insulated containers of small capacity without cooling or heating means suitable for storing, transporting and cooking substances, *eg* vacuum flasks—F4U, Heating and cooling systems &c
- . containers for radioactive and neutron-emitting materials. G6R, Radioactive materials and processing (*other than* shielded containers); H5R, Radiology; radiography; irradiation (shielded containers)

## 2. Container construction

Included here are:

- . immediate relationships of a more or less permanent nature *eg* as formed by seaming or sealing
- . constructions facilitating filling and/or emptying, including
  - . . “easy-opening” arrangements, *eg* rupturable membranes, tear strips, tabs, push-in portions, and the association therewith of venting openings
  - . . means *eg* bushes, necks, spouts directly via which filling and/or emptying can take place; and the attachment of such means to containers. There are extensive exclusions from this area of subject matter—*See* the reference to heading B8T *below*.
- . container body and end wall constructions *per se*; other container parts *per se eg* reinforcing pieces, handles; and immediate relationships between these

This heading is residual for the manufacture of containers although intermediate forms of significance *per se* are classified here

Excluded are:

- . loose-fitting lids and covers—A4A, Portable vessels, table articles &c
- . forming containers from coated or laminated materials wherein the interest lies in the coating or laminate or process *per se* is dealt with by such headings as B2E, Coated products; B2L, coating apparatus; B5N, Laminated products; C7F, Coating with metals, inorganic compounds &c
- . spray producers and liquid-distributing sprinklers and nozzles *other than* mere apertured containers—B2F, Fluid discharge devices
- . forming containers utilising metal working techniques which is dealt with by such headings as B3A, Multi-operation metal article manufacture; B3J, Seaming &c. metal sheets; B3R, Welding, soldering and brazing. B3T, Turning; B3V, Miscellaneous working of metals &c
- . forming containers from plastic substances utilising moulding techniques—B5A, Moulding plastic substances &c
- . apparatus for making bags and for making other containers by folding or winding non-metallic sheet material—B5D, Making bags, boxes &c
- . incorporating tearing strips, threads or the like during a packaging process—B8C, Packaging &c
- . filling containers—B8C, Packaging &c; B8T, Bottling, stoppers &c
- . container constructions specifically modified to receive labels—B8F, Labels and their securing
- . attaching removable closures and such closures, *including* lever lids, *per se*; association of a membrane or like rupturable closure with a replaceable closure; attaching tearable non-flat lids or ends by mechanical deformation of the lid or end which does not result in deformation of the container body and such closures (often referred to as capsule closures) *per se*; constructions of container rims or necks specifically reinforced or otherwise modified to cooperate with removable closures; bushes (*eg* for bung-holes), spouts, necks and other collar-like members when interest resides in providing seating for closures; pouring devices such as spouts and necks which are removably attached, *eg* to allow inversion; pouring devices which act as valved closures and/or are concerned with significant venting arrangements whether dependent on closure or associated container construction—B8T, Bottling, stoppers &c
- . pressure-resisting lids and covers—F2P, Pipes and tubes

Explanation of heading—*cont*

3. Ancillary or perfecting features or devices associated with or incorporated in containers, including, subject to the exclusions listed below, constructions of such *per se*. Certain of such perfecting features or devices are specifically identified in the Classifying Schedule which follows. Included are devices for opening containers which exist as entities independent thereof, *eg* can openers, and mechanical devices for expressing the contents of “squeeze-to-empty” containers, *eg* winding keys

## Excluded are:

- . brush scrapers of interest *per se*—A4F, Cleaning &c
  - . detachable hand-carriers which effectively embrace the container when fitted—A4G, Bags, baskets, cases &c
  - . brush, mop, pad and squeegee devices in which a fluid is fed from a reservoir or other supply to the surface to be treated—A4K, Brushes &c
  - . preventing firing of contents, or explosions—A5A, Fire-fighting &c
  - . valved outlets *other than* to prevent illicit refilling; removable closures constructed or fitted with devices serving purposes independent of closing, *eg* such devices as piercers or applicators; devices for repeatedly removing lever lids, *eg* rotatable butterfly devices; taps and other means facilitating emptying combined with cutters or piercers; tamperproof arrangements associated with removable closures—B8T, Bottling, stoppers &c
  - . pneumatic, hydraulic or piston or diaphragm means for discharging contents—F1R, Raising and discharging liquids &c
4. Assemblies of containers, *other than* mere stacked or nested arrangements, and wherein the containers of the assembly are not intended to have a working relationship with one another while assembled, *eg* a bottle provided with a drinking vessel

The exclusion references listed in this heading are not exhaustive. Reference should be made to the appropriate general heading/s for processes, materials, elements or devices which may be more widely applicable than can appropriately be classified in this heading

Relationship with the Universal Indexing Schedules (heading U1S)

In addition to recording the nature of broader processes or apparatus with or in which inventions classified here may be used, U1S is used, subject to its indexing rules, to index materials or articles contained

Operative dates for Key entries

The operative dates of the terms in this heading are:

1. for terms annotated by a marginal code, that of the Edition corresponding to that code
2. for all other terms, earlier than that Edition A

Classifying Schedule

- DB containers made from staves and processes and apparatus specific to their production  
 . See Indexing Schedule 1  
 organisation of containers (*including*, as appropriate, container assemblies wherein the containers of the assembly have a working relationship with one another while assembled) concerned with—
- DSC1 . mixing *in situ* contents stored in two or more compartments by creating inter-communication therebetween, *eg* by the provision of rupturable or removable means  
 . raising or otherwise causing fluent material to flow *other than* by the mere provision of a “squeeze-to-empty” container construction—
- DSR1 . . with partitions or other means separating different constituents and/or forming *eg* a reservoir; a mixing chamber; a spray chamber; a measuring chamber
- DSR2 . . other than the above
- DSS . expressing and/or taking in contents by direct or indirect manual deformation of container, *ie* “squeeze-to-empty” containers, and whose organisation is *not otherwise provided for above*
- DSA . combinations of or conversions between functions classifiable under terms DSR1, DSR2 and DSS *above*
- DSX1 . collapsibility without dismantling for storage; variability of shape and/or capacity
- DSX2 . being dismantlable and/or erectable for use from separate parts
- DSX3 . facilitating stacking, or nesting, *including* fitting together of like containers to conserve space and/or to stabilize a group thereof
- DSC2 . compartmenting to subdivide, locate or separate contents and whose organisation is *not otherwise provided for above*
- DSX5 . other functions or particular configurations, *eg* drip collecting vessels; mere fancy shape
- container construction concerned with—  
 . immediate relationships of a more or less permanent nature, *eg* as formed by seaming or sealing, (*including* constructions facilitating such relationships) between—
- DCA1 . . body walls and end walls (*including* frangible and apertured end walls; lids sealed to body walls)  
 . . . immediate relationships between body walls and end walls which essentially comprise a nozzle with shoulders, *eg* as in many “squeeze-to-empty containers”—*See terms DCF8, 9 below*  
 . . . sealing lids to facilitate opening—*See term DCF13 below*
- DCA2 . . portions of the same body wall or portions of initially distinct body walls as part of the primary construction of the container body
- DCB . . combinations of the above  
 . filling and/or emptying by—  
 . . destroying the integrity of a closed container—  
 . . . displacing container part and/or other element which constitutes a *replaceable* closure; association of a membrane or like rupturable closure with a *replaceable* closure—*See B8T, Bottling, stoppers &c*  
 . . . unit subjects—
- f DCF10 . . . constructions and arrangements of lines of weakness
- f DCF20 . . . features directly associated with lines of weakness *eg* seals, finger—and lip-protecting arrangements  
 . . . attaching lids, membranes &c *over* pre-formed openings—*See term DCF13 below*  
 . . . elements for initiating opening (*eg* tabs, levers, strings, keys) or uncovering pre-formed opening (*eg* lids, membranes, strips)—
- f DCF12 . . . . construction of such elements *per se*  
 . . . . . lids characterized by choice of materials employed—*See term DCW9 below*  
 . . . . . independent opening devices *per se eg* can-openers—*See term DFF below*
- f DCF13 . . . . attaching such elements *eg* by rivets, adhesives, *including* attaching lids to facilitate opening *eg* peelable seals (other aspects of attaching lids to bodies—*See term DCA1) above*
- f DCF14 . . . . forming venting openings whilst forming dispensing openings  
 . . . . . other venting of containers—*See B8T, Bottling, stoppers &c*
- f DCF11 . . . . other unit subjects *eg* associated reinforcing arrangements  
 . . . . *overall organisation* of particular kinds and types—
- f DCF19 . . . . container part and/or other element finally displaced *outwardly* to produce dispensing opening—  
 . . . . . by uncovering pre-formed opening using non-integral element *eg* tear off strip, lid or membrane  
 . . . . . by actually forming opening, using—
- f DCF15 . . . . . non-integral initiating element *eg* tab
- f DCF16 . . . . . other or unspecified initiating element *eg* tab or tear strip integral with container  
 . . . . container part and/or other element finally displaced *inwardly* to produce dispensing opening—
- f DCF17 . . . . . by non-integral initiating element *eg* tab
- f DCF18 . . . . . by other or unspecified means *eg* push-in portion

## Classifying schedule—cont

- .. means *eg* bushes, necks, spouts, orifices, nozzles directly via which filling and/or emptying can take place—
- f DCF9 .. attaching such means to associated container parts
- f DCF8 .. other subjects *including* construction of such means *per se*, drainage arrangements to facilitate complete emptying (NB this term is residual—*See* exclusions in paragraph 2 of heading introduction)
- ... drainage arrangements specifically intended to operate in conjunction with stacking or nesting—*See* term DSX3 *above*
- DCF5 .. providing means associated with or facilitating filling and/or emptying and *not otherwise provided for*
- DCG .. combinations of features from two or more of terms DCF10-18; DCF9, 8; DCF5 *above*
- .. container body and end wall constructions *per se*, *not provided for above*, other container parts *per se*, *not provided for above*, and immediate relationships between these parts and body and end walls—
- DCW22 .. end walls *per se* (*including* features or parts when formed integrally with end walls, *eg* chimes; feet; reinforcing corrugations)
- ... features facilitating handling—*See* term DCW4 *below*
- ... end walls which essentially comprise a nozzle with shoulders *eg* as in many “squeeze-to-empty containers”,—*See terms* DCF8 and DCF9 *above*
- DCW23 .. externally attached reinforcing/protecting/container-supporting parts, *eg* chimes; skirts; sleeves; rolling rings; feet or foot rings, (*including* all attached rim-reinforcing parts)
- DCW4 .. handles and other means facilitating handling or suspension, *eg* hand holes; finger grips (*including* all carrying means mounted on chimes, sleeves &c; arrangements of handles; lugs for attaching handles)
- DCW21 .. double-wall constructions, *including* jacketing arrangements *not provided for above* and lining arrangements wherein the jacket or lining is attached (if at all) in a localised manner
- DCW9 .. walls and other container parts characterized by choice, *ie* nature and/or form, of materials employed *eg* coated; laminated, helically wound
- ... elements for initiating opening or uncovering pre-formed opening (*other than* lids)—*See* term DCF12 *above*
- DCW3 .. reinforcing and/or protective parts or arrangements *not provided for above*
- DCW10 .. wall constructions and features *not provided for above* (*eg* built-in windows; markings to form gauges; patterned areas)
- ... opening tabs, levers &c—*See* term DCF12 *above*
- DCD .. combinations of any of the *above*
- ancillary or perfecting features or devices associated with or incorporated in containers, *including*, where appropriate, constructions of such *per se*—
- DFC .. removable closures
- DFD .. devices or arrangements preventing illicit re-filling
- ... *See* Indexing Schedule 2
- DFE .. devices for expressing contents of “squeeze-to-empty” containers (*eg* tube winding keys)
- DFF .. devices for opening containers, *eg* by breaking; cutting; piercing, which exist as entities independent thereof
- ... *See* Indexing Schedule 3
- DFX .. other ancillary or perfecting features or devices (*eg* baffles damping surge; dripwires; drip absorbers; scrapers; floats; followers; brush supports)
- DFB .. combinations of any of the *above*
- DCE containers characterized only by a combination of features from two or more of sections DCA-, DCF-, DCW-, DF—*above*
- DA assemblies of containers, *other than* mere stacked or nested arrangements, and wherein the containers of the assembly are not intended to have a working relationship with one another while assembled

Indexing SchedulesIndexing schedule 1

*Terms from this schedule are assigned only to relevant disclosures classified by term DB from the Classifying Schedule*

- casks and barrels made from staves—
- D21 . attachments (e.g. handles)
- . cork-catchers and holders for drawn corks—*See term D21 above*
- . covers, ends, or lids—*See term D25 below*
- D23 . fittings, internal
- D25 . heads (*including* fixing)
- D26 . hoops and rings
- . kinds or types (*including* processes for making not of interest apart from casks and barrels)—
- D28A . . collapsible
- D28B . . lined, coated, covered, jacketed, and impregnated
- D28D . . metal
- D28C . . other than metal
- D28E . . partitioned
- . making, machines and apparatus for, not of interest apart from casks and barrels—
- D29A . . assembling, trussing, and hooping (*including* assembling heads)
- . . crozing *otherwise than* by cutting—*See term D29B below*
- D29E . . drying and heating, applications of
- D29B . . making from sheet material
- D31 . overflow fittings
- D32 . strengthening
- D33 . tampering with, preventing and detecting
- D20X . constructional, process or apparatus features *not otherwise provided for*

Indexing schedule 2

*Terms from this schedule are assigned only to relevant disclosures classified by term DFD from the Classifying Schedule*

- devices or arrangements preventing illicit refilling—
- D62 . breaking frangible parts of receptacles to gain access
- . miscellaneous—
- D60X1 . . bottles fractured after use
- D60X2 . . refilling, preventing by non-retractable parts
- D60X3 . . stoppers secured by ball-and-groove locking devices
- D63A . refilling, indicating by indicators enclosed in receptacles
- D64 . refilling, preventing by capillary outlets, air traps, and other valveless devices
- . refilling, preventing by valve devices—
- D65A . . multiple valve devices
- . . single valve devices—
- D65B1 . . . co-acting with superimposed weight
- . . . . spring lift valves—*See term D65B4 below*
- . . . . weighted flap valves—*See term D65B3 below*
- D65B2 . . . held on seat by weight *below*
- D65B3 . . . pivoted and hinged flap valves
- D65B4 . . . spring lift valves
- D65BX . . . types, *not provided for above*
- . . . unloaded loose gravity valves—
- D65B5A . . . . ball
- D65B5B . . . . other than ball

Indexing schedule 3

*Terms from this schedule are assigned only to relevant disclosures classified by term DFF from the Classifying Schedule*

- devices for opening containers which exist as entities independent thereof—
- D41H . adapted to be secured to the container before use
  - . comprising a support for the container co-operating with an axially movable support for the cutter—
  - D41A1 . . container opened by single or repeated piercing movement of non-rotating cutter
  - D41A2 . . rotating support and stationary cutter
  - D41A3 . . stationary support and rotating cutter
  - D41C . having two pivoted operating levers for repeated pincer or scissor-like action
  - D41B . piercers
  - . cutting-tools which pierce cans preparatory to cutting—*See other subdivisions of can &c openers &c*
  - D41K . powered by electric or other motor
  - D41D . radius-bar and like
  - D41E . repeated action of single operating-lever
  - D41FY . traction-wheel type—
  - D41F2 . . with cutter blade
  - D41F1 . . with cutter wheel
  - D41G . winding and tearing keys
  - D41J . with magnetic elements for holding cut-off portions of can
  - D41X . other than above

Indexing schedule 4

*Terms from this schedule are used only to identify features of “squeeze-to-empty containers of the toothpaste kind”*

- “squeeze-to-empty containers of the toothpaste kind”—
- D77 . axially collapsible (*other than* telescopically)
  - . closures and joints—
  - D78A . . end-closures not used for withdrawing contents
  - D78B . . shoulder joints
  - D78X . . other closures and joints
  - D71 . containing or combined with hypodermic needles or other delivery appliances (*including* long nozzles and air inlet tubes)
  - D73 . with body parts wholly or partly non-metallic (*other than* coated or layered)
  - D76 . with coated or layered body parts
  - D74 . with non-corrosive nozzle inserts or coverings
  - D75 . with spring fittings permanently attached, *other than* end-closures and valve closures
  - D70X . having features *not otherwise provided for*

Indexing schedule 5

*Terms from this schedule are assigned to relevant disclosures classified by terms other than DB, DCF10-18 DFD, DFF from the Classifying Schedule and other than for "squeeze-to-empty containers of the toothpaste kind" (See Indexing Schedule 4)*

- constructional features—
- D1A1 . corrugations or ribs
- D1B1 . ends and bottoms, special features of
- D1B3 . ends closed by flattening or folding together of body wall
- D1B2 . feet, foot rings, and binding-hoops
- D1E . jackets
- D1C . linings, coatings, and coverings
- rimms for openings—
  - .. drips and overflow, constructions and devices for preventing and catching—*See term D11 below*
- D1A4A . flanged
- strengthened by—
  - ... folding or rolling
  - ... wiring
- D1A4B2 . other features (*other than* plain rims)
- D1A4B1 . cylindrical, of helically-wound material
- D1A4X . having readily separable parts secured together
- D1A2B . shaped specially for—
- D1A2A . fitting closely together (*including* nesting or stacking)
- D1F1 . other purposes
- D1FX . other features or constructions
- D1A3
- materials—
- D7M . metallic material
- non-metallic material—
  - .. cardboard, paper, and like fibrous materials
  - .. glass
  - .. plastics or rubber—
  - ... flexible
  - .. other non-metallic material
- D7C
- D7G
- D7PY
- D7P1
- D7X
- ancillary features—
- freezing, preventing—*See terms D1E, D1C above*
- D17 . air and steam inlet and outlet holes adapted to be sealed
- D18 . arrangements of labels on containers
- D13 . auxiliary receptacles and dipping-cups, provided with or fitted for attachment of
- D6 . brushes, spoons, and equivalent appliances for withdrawing contents of receptacles, holders, supports, and scrapers for
- D11 . drips and overflow, constructions and devices for preventing, catching, and localizing
- D19 . fittings for supporting substances for preserving and treating contents
- D16 . floats, pistons, inflated chamber, and equivalent devices for holding contents in place and for protecting surface of contents
- D14 . gauges, applications of
- D8 . leaks, stopping
- D9 . overturning, devices to prevent
- D12 . partitions, arrangements and construction of
- D10 . strainers and filters, applications of
- D15 . transparent parts for viewing contents, with
- handles and hand-holds (*including* ears or lugs for handles)—
  - .. detachable
  - .. formed solely by shaping container body
  - .. pivoted on the container (*e.g.* bail handles)
  - .. rigidly attached to the container
- pouring devices *eg* spouts
  - .. modified for drop-delivery
  - .. telescopic or retractable
- D4D
- D4C