



طبقه بندی بین المللی اسناد اختراع

International Patent Classification

مهارت ۴ - سطح ۱



ارائه دهنده: محسن جمشیدی شفق

اردیبهشت ۱۴۰۴

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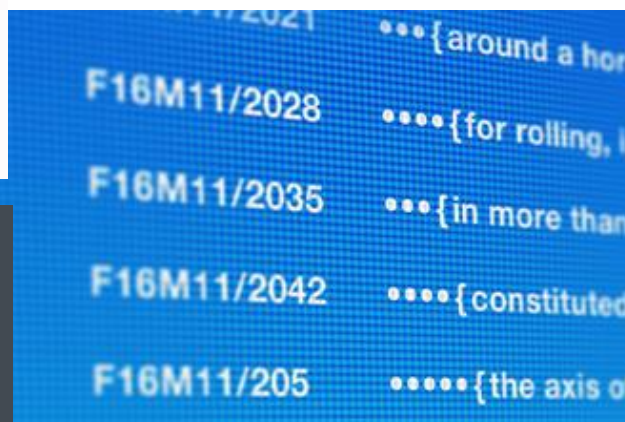
Main Patent Classification Systems



UNITED STATES
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Europäisches
Patentamt
European
Patent Office
Office européen
des brevets



Cooperative Patent Classification (CPC)

IPC Committee of Experts



CPC Implementation Group

February 2012



Classification – advantages

- ✓ independent of language
- ✓ independent of synonyms and homonyms
- ✓ independent of alternative spellings
- ✓ independent of terminology
- ✓ independent of typographic errors
- ✓ comprehensive and detailed



Disadvantages of patent classification vs. keywords

- ✓ May not be available for all areas of technology
- ✓ May not be specific enough for a particular search
- ✓ May not be available for all documents
- ✓ Potentially complex



Symbols presented on front pages of patent documents

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(54) Title: FROZEN CONFECTIONERY PRODUCT WITH A NATURAL STABILISER

(57) Abstract: A frozen confectionery product comprising a natural stabiliser composition is an object of the invention. The frozen confectionery product has an overrun of preferably 0%-130%. The frozen confectionery product comprises a relatively low protein content. The stabiliser composition comprises egg yolk, a gum and preferably an acidifier. Use of the stabiliser composition is described. A method for the manufacture of the frozen confectionery product is also described.

(43) International Publication Date
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(51) International Patent Classification:
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INID code:

Internationally agreed Numbers for the
Identification of (bibliographic) Data
(ST.9)

(50) Technical information

* (51) International Patent Classification (ST.10/C)

(52) Domestic or National Classification

* (54) Title of the invention

(56) List of prior art documents

(57) Abstract or claim

(58) Field of search

* Minimum elements on the first page of a patent 6 document (see paragraph 7 of ST.9)



Basics of the IPC

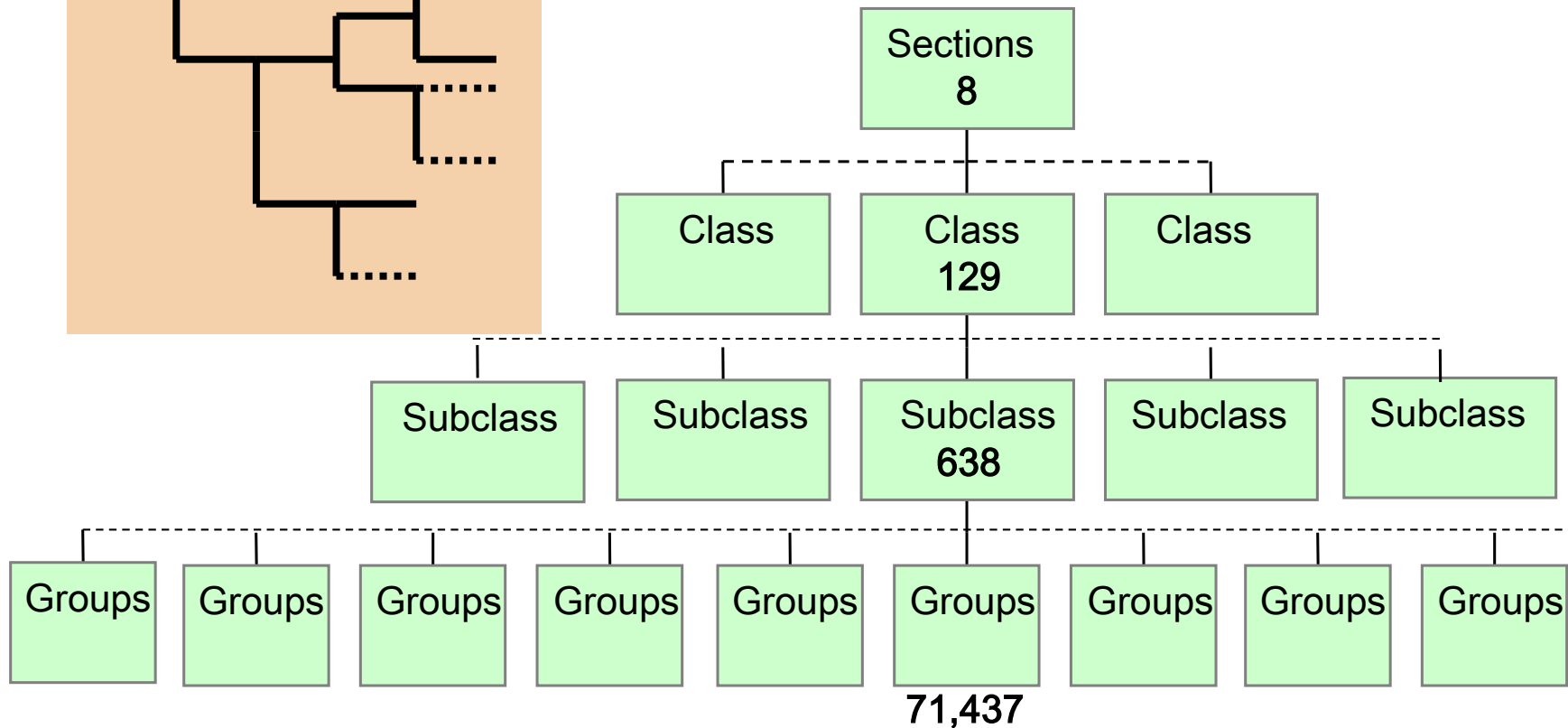
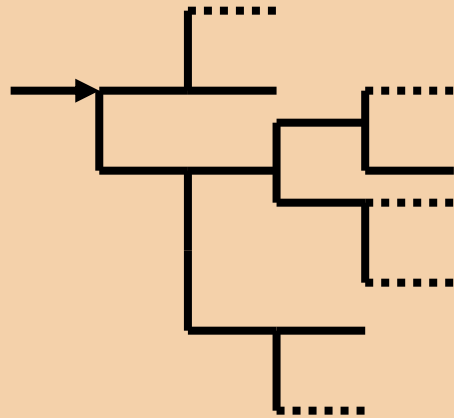
This presentation contains:

- ✓ Elements of the IPC scheme:
 - Symbols, Titles, Hierarchy
 - Other elements of IPC scheme (References, Notes, etc.)
- ✓ Some terminology:
 - Scope of IPC group

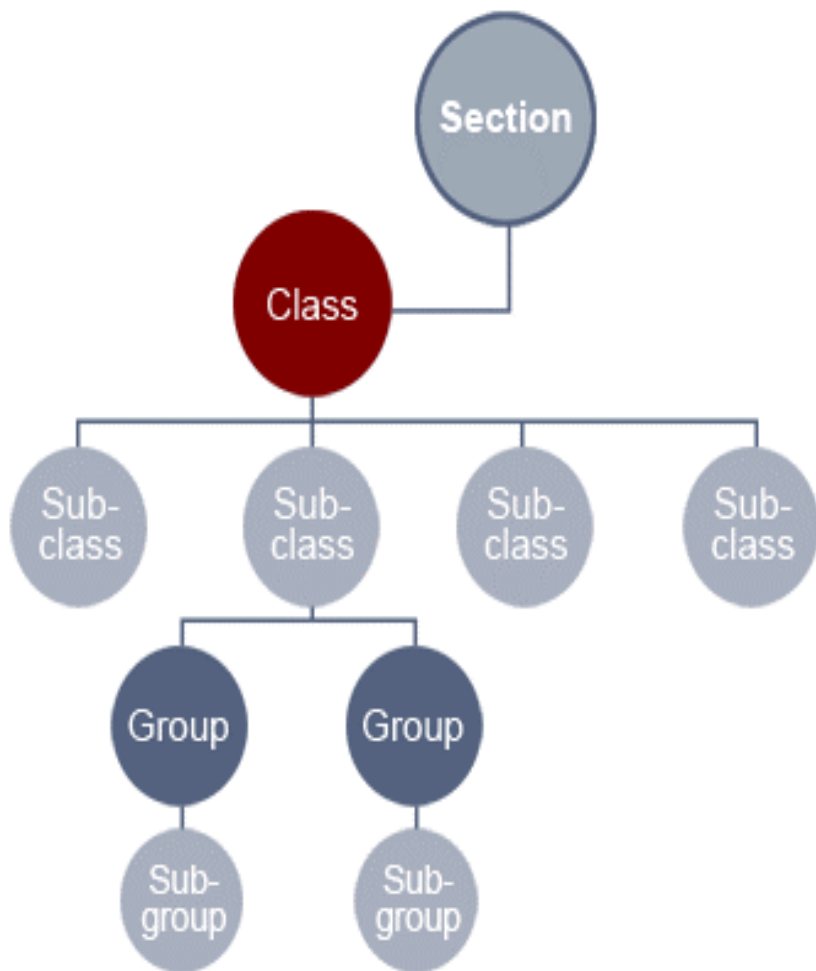


IPC hierarchical structure

Tree-like
hierarchy



IPC hierarchical structure



Example:

A	01	B	1/00	Main group
Section	Class		or	
		Subclass	1/16	Subgroup
				Group



Symbols and Titles

- ✓ Each IPC place/entry (section, class, subclass, group) is characterized by **Symbol** and **Title**.

Symbol = succession of upper case letters and numbers

Title = phrase describing the technical content (scope)

Example:

Section	A	Human Necessities
Class	A47	Furniture; Domestic articles ...
Subclass	A47H	Furnishings for windows or doors
Group	A47H 1/00	Curtain suspension devices



Symbols and Titles

Symbols

Titles



IP SERVICES International Patent Classification (IPC) Official Publication

WORLD INTELLECTUAL PROPERTY ORGANIZATION

Contact us | Accessibility | S

IPC Home Page - Help

Version

2013.01

Current symbol

A01B

Go to

Language

☒ English

☐ French

☐ English/French

View mode

☐ path

☒ full

☐ hierarchic

☐ Standardized sequence

☒ Deleted entries

☐ Subclass indexes

☒ Guidance Headings

☒ Notes

Search























Terms

Cross-references

Assistance

STATS

Text categorization
(IPCCAT)

Scheme	RCL	Compilation	Catchwords	Corrigendum
	A01B	SOIL WORKING IN AGRICULTURE OR FORESTRY; PARTS, DETAILS, OR ACCESSORIES OF AGRICULTURAL MACHINES OR IMPLEMENTS, IN GENERAL (making or covering furrows or holes for sowing, planting or manuring A01C 5/00 ; machines for harvesting root crops A01D ; mowers convertible to soil working apparatus or capable of soil working A01D 42/04 ; mowers combined with soil working implements A01D 43/12 ; soil working for engineering purposes E01 , E02 , E21)		
	A01B 1/00	Hand tools (edge trimmers for lawns A01G 3/06)		
	A01B 1/02	• Spades; Shovels		
	A01B 1/04	• • with teeth		
	A01B 1/06	• Hoes; Hand cultivators		
	A01B 1/08	• • with a single blade		
	A01B 1/10	• • with two or more blades		
	A01B 1/12	• • with blades provided with teeth		
	A01B 1/14	• • with teeth only		
	A01B 1/16	• Tools for uprooting weeds		
	A01B 1/18	• • Tong-like tools		
	A01B 1/20	• Combinations of different kinds of hand tools		
	A01B 1/22	• Attaching the blades or the like to handles (handles for tools, or their attachment, in general B25G); Interchangeable or adjustable blades		
	A01B 1/24	• for treating meadows or lawns [2]		
		Ploughs		
	A01B 3/00	Ploughs with fixed plough-shares		
	A01B 3/02	• Man-driven ploughs		
	A01B 3/04	• Animal-drawn ploughs		
	A01B 3/06	• • without alternating possibility, i.e. incapable of making an adjacent furrow on return journey		
	A01B 3/08	• • • Swing ploughs		
	A01B 3/10	• • • Trussed-beam ploughs; Single-wheel ploughs		
	A01B 3/12	• • • Two-wheel beam ploughs		
	A01B 3/14	• • • Frame ploughs		

Section

✓ Hierarchical top level: **8 Sections**

- A SECTION A — HUMAN NECESSITIES
- B SECTION B — PERFORMING OPERATIONS; TRANSPORTING
- C SECTION C — CHEMISTRY; METALLURGY
- D SECTION D — TEXTILES; PAPER
- E SECTION E — FIXED CONSTRUCTIONS
- F SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING
- G SECTION G — PHYSICS
- H SECTION H — ELECTRICITY



Class

Class = Second hierarchical level under the section

Class symbol = Section symbol followed by two digits

Class Title gives a broad indication of the content of the class

Example:

Section	A	HUMAN NECESSITIES
Class	A01	AGRICULTURE; FORESTRY; ANIMAL;
	A21	BAKING; EQUIPMENT FOR MAKING ...
	A22	BUTCHERING; MEAT TREATMENT; ...



Subclass

Subclass Symbol = Class symbol followed by a letter

Subclass Title indicates the content **as precisely as possible**.

Example:

Class	A47	FURNITURE; DOMESTIC ARTICLES OR APPLIANCES; COFFEE MILLS; SPICE MILLS; SUCTION CLEANERS IN GENERAL
Subclass	A47B	Tables; Desks; Office furniture; Cabinets; Drawers; General details of furniture
	A47C	Chairs; Sofas; Beds
	A47D	Furniture specially adapted for children



Main groups and Subgroups

Group symbol = Subclass symbol followed by one to three digits + "/" + two to six digits

Example:

A01K 31/00 Housing birds

Main group (XX/00)

- A01K 31/02 • Door appliances; Automatic door-openers
- A01K 31/04 • Dropping-boards; Devices for removing excrement
- A01K 31/06 • Cages
- A01K 31/07 • • Transportable cages
- A01K 31/08 • • Collapsible cages

Subgroups (XX/yz)



Main groups and Subgroups

- ✓ Two types of groups: **Main groups**
Subgroups of main groups

A23G 9/00 **Main group** xxx/**00**
xxx= 1 to 999

A23G 9/02 **Subgroup** xxx/**yy** (**yy** ≠ 00)
xxx/yyyyyy



Complete Symbol

A23G 9/02

✓ Complete symbol; consists of different components

A Section (A, B, ... H)

A23 Class (+any 2 digits)

A23G Subclass (+any letter)

A23G 9/02 Group

Main group part

Subgroup part



Hierarchical Structure of Groups

- ✓ Hierarchical level of groups indicated by number of dots (indentation level) not by the group symbol

1/00 T

1/02 • T¹

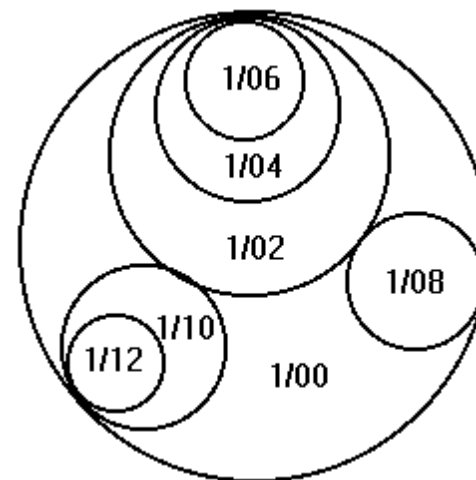
1/04 • • T²

1/06 • • • T³

1/08 • T⁴

1/10 • T⁵

1/12 • • T⁶



- ✓ Group 1/12 (2-dot group) should be a subset of group 1/10 (1-dot group) which is a subset of group 1/00 (main group) .
- ✓ Group 1/12 is **not** a subset of group 1/02 nor of group 1/08.



Hierarchy and Numbering of Subgroups

- ✓ Level of hierarchy:
 - Indicated by dots
 - Number of dots > indentation > hierarchical level
 - Independent of numbering of subgroups!
- ✓ Numbering does not determine hierarchical level.
- ✓ Numbering determines sequential/presentation order of subgroups.

Example:

G01N	33/483 • •	Physical analysis of biological material	(33.483)
	33/487 • • •	of liquid biological material	(33.487)
	33/49 • • • •	blood	(33.49)
	33/50 • •	Chemical analysis of biological material, e.g. blood	

➤ Technical hierarchy is independent of numbering.



Example:

55,305 documents (NB: include all subdivisions)

H SECTION H — ELECTRICITY

Section

H01 BASIC ELECTRIC ELEMENTS

Class

H01F **MAGNETS; INDUCTANCES; TRANSFORMERS; SELECTION OF MATERIALS FOR THEIR MAGNETIC PROPERTIES** (ceramics based on ferrites **C04B 35/26**; alloys **C22C**; thermomagnetic devices **H01L 37/00**; loudspeakers, microphones, gramophone pick-ups or like acoustic electromechanical transducers **H04R**) [2]

Subclass

H01F 1/00 **Magnets or magnetic bodies characterised by the magnetic materials thereof; Selection of materials for their magnetic properties** (thin magnetic films characterised by their composition **H01F 10/10**)

Main group

H01F 1/01 • of inorganic **materials** (**H01F 1/44** takes precedence) [6]

H01F 1/03 •• characterised by their coercivity [6]

H01F 1/032 ••• of hard-magnetic **materials** [6]

H01F 1/04 •••• metals or alloys [6]

H01F 1/047 ••••• Alloys characterised by their composition [6]

H01F 1/053 •••••• containing rare earth metals [6]

H01F 1/055 ••••••• and magnetic transition metals, e.g. SmCo_5 [6]

H01F 1/057 •••••••• and IIIa elements, e.g. $\text{Nd}_2\text{Fe}_{14}\text{B}$ [6]

H01F 1/058 •••••••• and IVa elements, e.g. $\text{Gd}_2\text{Fe}_{14}\text{C}$ [6]

H01F 1/059 •••••••• and Va elements, e.g. $\text{Sm}_2\text{Fe}_{17}\text{N}_2$ [6]

Subgroups



→ 12th level

294 docs

► sufficiently small numbers



Exercise

Q1) Is A47D 7/01 placed in a hierarchically lower level than A47D 7/00?

Q2) Is A61B 5/097 placed after A61B 5/11?

A1) Yes

A47D 7/00

Children's beds

A47D 7/01

- with adjustable parts

A2) No

$5.097 < 5.11$



Exercise



Q3) Is an imaginary symbol K01A 1/10 placed in a hierarchically higher level than K01A 1/12? What about the relationship between K01A 1/10 and K01A 1/04?

Q4) K01A 1/10 is placed before or after K01A 1/12 ?

A3) **Unknown; depends on number of dots.**

Case 1

- | | | |
|-----------|--|--------------------------------------|
| A42B 1/00 | Footwear characterised by the material | |
| A42B 1/10 | ▪ Footwear made of rubber | ← Hierarchically higher level |
| A42B 1/12 | ▪ ▪ of rubber waste | |

Case 2

- | | | |
|-----------|---|--|
| A23G 1/00 | Cocoa; Cocoa products, e.g. chocolate; ... | |
| A23G 1/04 | ▪ Apparatus specially adapted for manufacture or treatment of cocoa ... | |
| A23G 1/10 | ▪ ▪ Mixing apparatus; Roller mills for preparing chocolate | |
| A23G 1/12 | ▪ ▪ Chocolate-refining mills, i.e. roll refiners | |

Case 3

- | | | |
|-----------|---------------------------------------|-------------------------------------|
| A42B 1/00 | Hats; Caps; Hoods | |
| A42B 1/04 | ▪ Soft caps; Hoods | |
| A42B 1/08 | ▪ ▪ with protection against blows ... | |
| A42B 1/10 | ▪ ▪ ▪ Miners' caps | ← Hierarchically lower level |
| A42B 1/12 | ▪ ▪ Bathing caps | |

A4) Before ($1.10 < 1.12$)



Titles

Example:

A 01 AGRICULTURE; FORESTRY; ANIMAL HUSBANDRY;
HUNTING; TRAPPING; FISHING

A01B SOIL WORKING IN AGRICULTURE OR FORESTRY

A01C Planting; Sowing; Fertilising

A01J Manufacture of dairy products

Multipart titles separated by “;”
(semicolons)

> accumulation of different subject matter

Single part title

Titles may consist of several words/phrases separated by **semicolons**, representing related areas of technology which have been grouped together.



Subgroup Titles

Example:

A01K 31/00	Housing birds
:	
31/06	• Cages
31/07	• • T ransportable cages
31/08	• • C ollapsible cages

✓ Upper case first letters:

- Titles can be read independently.
- Always within the scope of hierarchy.

H01S	3/00 Lasers
	3/14 • c haracterised by the material used as the active medium

✓ Lower case first letter:

- Titles read as continuation of hierarchically higher title.

Dots and titles

- ✓ **Dots** can be used in place of titles of hierarchically superior groups to avoid repetitions.

Example:

B64C AEROPLANES; HELICOPTERS

5/00 Stabilising surfaces

5/06 • Fins

5/08 • mounted on, or supported by, wings

5/10 • adjustable

Combined titles:

5/08 • Stabilising surfaces mounted on, or supported by, wings

5/10 • Adjustable stabilising surfaces



Elements of IPC scheme

- ✓ **Classification places: Symbol + Title + Hierarchy**
- ✓ **References**
- ✓ **Notes**
- ✓ Subsections
- ✓ Guidance Headings
- ✓ Subclass Index and Class index

Determine the scope of IPC groups.



Symbol + Title + Hierarchy and Scope

✓ Some terminology:

- Symbol + Title + Hierarchy build/form

IPC entry

IPC place

Classification place

} synonyms

- **Scope** of IPC entry/place is:

the technical subject matter that is covered by this place.



Symbol + Title + Hierarchy and Scope

- ✓ **Scope** (content) is defined by titles
- **Sections, Classes:** titles give **broad indication** of the contents
- **Subclasses, groups:** titles define the content **as precisely as possible**

N.B. Scope is always defined by the title of the group + scope of hierarchically higher place.

e.g.	H01S	3/00	Lasers
	:		
	H01S	3/05	• Construction or shape of optical resonators



Symbol + Title + Hierarchy and Scope

Example:

Section:	A	HUMAN NECESSITIES
Class:	A47	FURNITURE ...
Subclass:	A47C	CHAIRS
Main group:	A47C1/00	Chairs adapted for special purposes
one-dot subgroup:	1/02	• Reclining or easy chairs
two-dot subgroup:	1/022	• • having independently-adjustable supporting parts
three-dot subgroup:	1/028	• • • for changing a straight chair into an easy chair
four-dot subgroup:	1/029	• • • • by changing the length or the inclination of the legs

A47C1/029 reads

“Reclining or easy chairs

having independently-adjustable supporting parts

for changing a straight chair into an easy chair

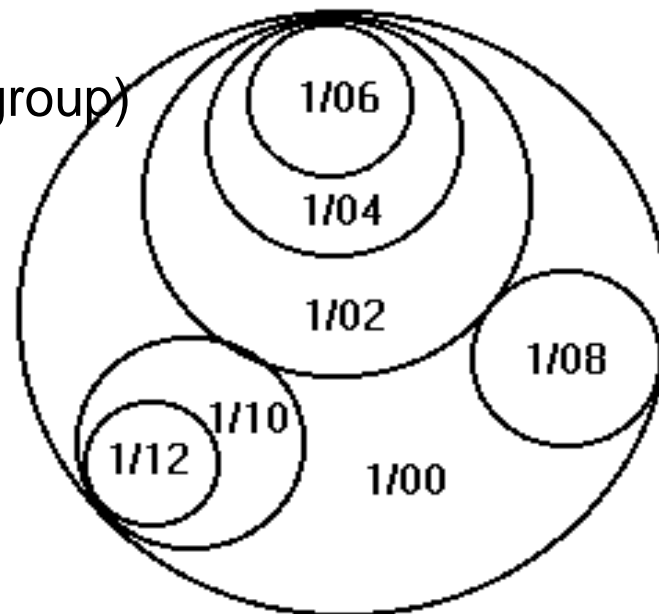
by changing the length or the inclination of the legs”



Symbol + Title + Hierarchy and Scope

Example: (circles symbolize scope,
i.e. technical area covered by group)

1/00 T
1/02 • T¹
1/04 • • T²
1/06 • • • T³
1/08 • T⁴
1/10 • T⁵
1/12 • • T⁶



Scopes at the same hierarchy are mutually exclusive,
i.e. no overlap



Symbol + Title + Hierarchy and Scope

Example:

A23N 4/00 Machines for stoning fruit or removing seed-containing sections from fruit, characterised by their stoning or removing device

A23N 4/02 • for stoning fruit

A23N 4/04 • • for peaches, plums, apricots or the like

A23N 4/06 • • for cherries or the like

A23N 4/08 • • for dates, olives or the like
oblong fruits

A23N 4/10 • • for fruit with very small pips, e.g. raisins

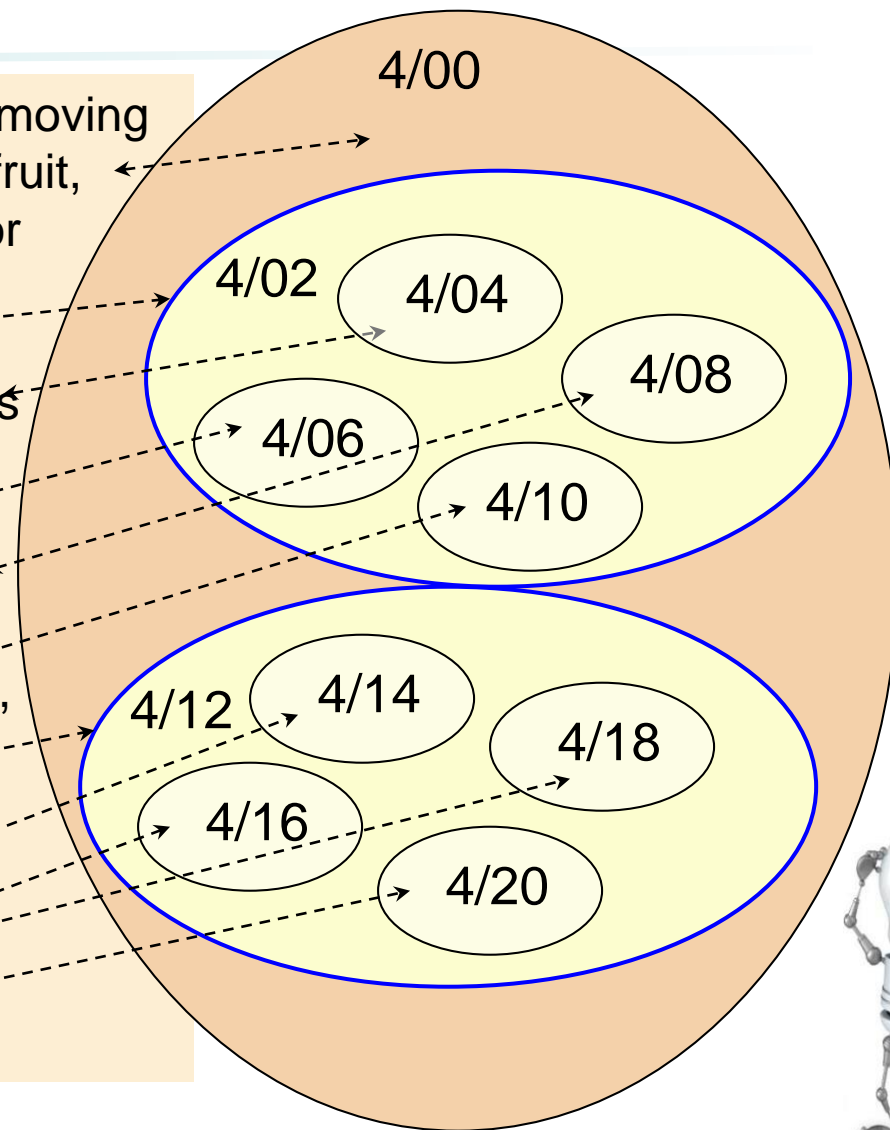
A23N 4/12 • for coring fruit

A23N 4/14 • • for apples, pears or the like

A23N 4/16 • • for tomatoes or the like

A23N 4/18 • • for citrus fruits

A23N 4/20 • • for pineapples

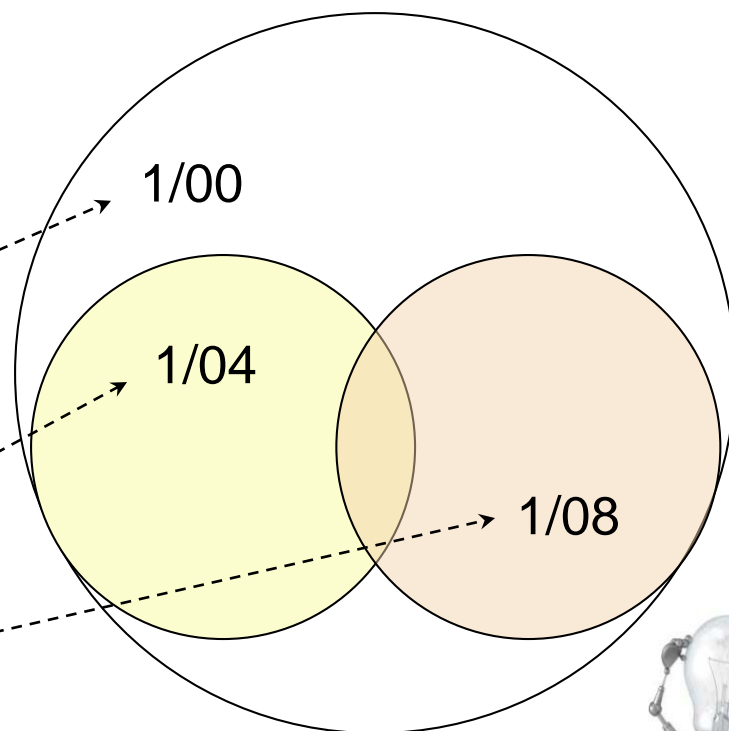


Scope of IPC Group

- ✓ Mutually exclusive scopes are **ideal** situations
- ✓ Overlap is possible

Example:

G02B 1/00 Optical elements
 1/02
 1/04 • made of organic materials
 1/06
 1/08 • made of polarising materials



References

- Statements **in brackets “()”** referring to another place in the Classification.
- Show that **the subject matter** indicated by the reference **is covered by the place referred to.**
- Apply to the place where they appear and to all hierarchically lower places.



References

Example:

B64C AEROPLANES; HELICOPTERS (*air-cushion vehicles B60V*)

References

A01D 69/00 Driving mechanisms or parts thereof for harvesters or mowers (*driving mechanisms for the cutters of mowers or harvesters A01D 34/00*)

A01B 35/00 Other machines for working soil (*A01B 37/00, A01B 39/00, A01B 77/00 take precedence*)



References

✓ Two types of references

1. Limiting references

References of the two categories below:

(1a) Scope-limitation references

(2b) Precedence references

2. Non-limiting references

References of the three categories below:

(2a) Application-oriented references

(2b) References out of a residual place

(2c) Informative references



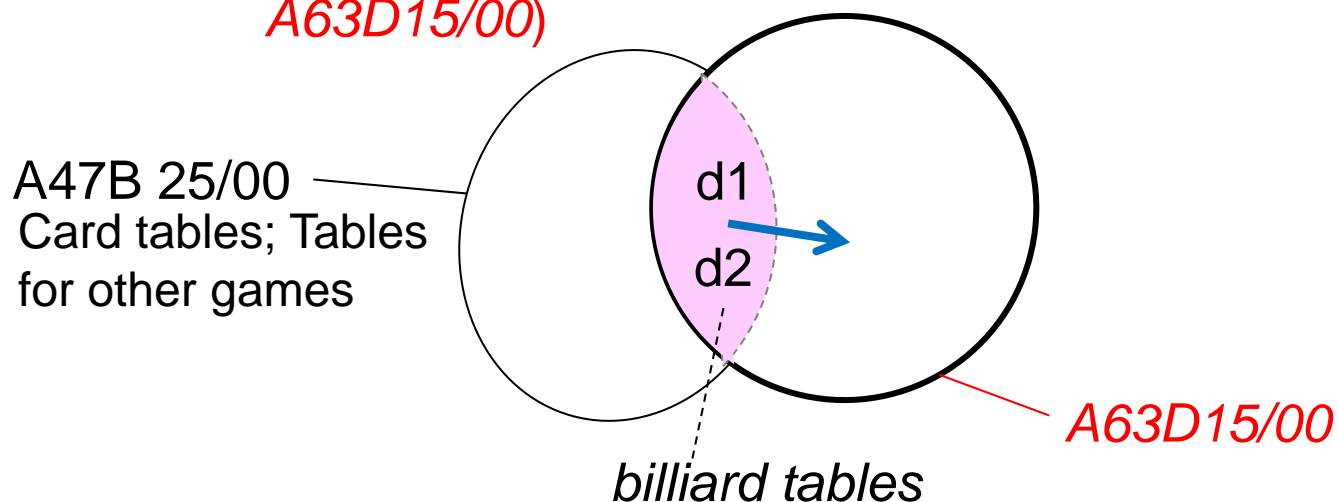
1. Limiting references

(1a) Scope-limitation references

- ✓ Exclude specified subject matter from the scope of this classification place.
- ✓ Indicate the place(s) where this subject matter is classified.

Example:

A47B 25/00 Card tables; Tables for other games (*billiard tables*
A63D15/00)



1. Limiting references

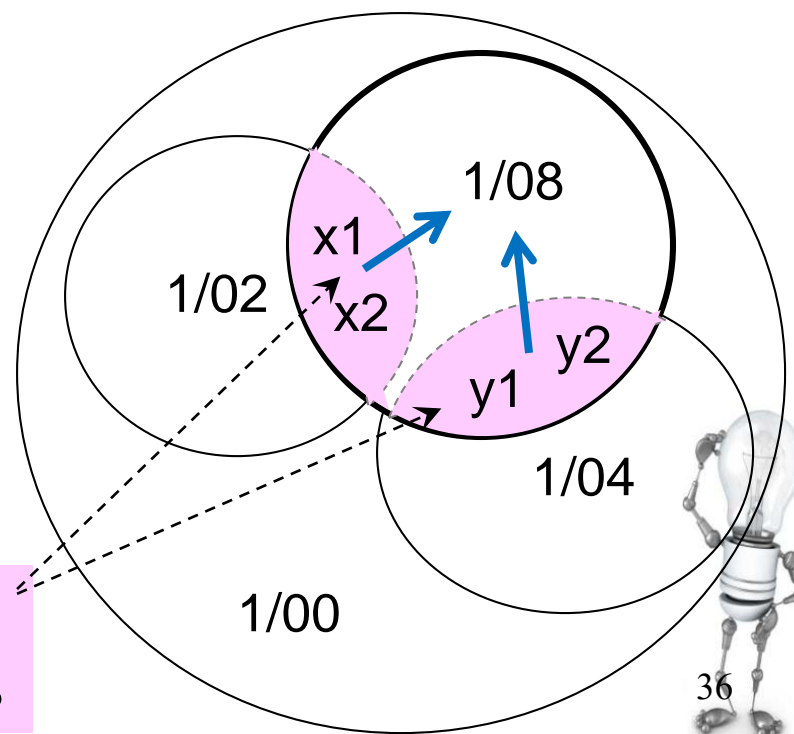
(1b) Precedence references

- ✓ References stating that another place “*takes precedence*”.
- ✓ Used when subject matter is **classifiable in two places**, or when **different aspects are covered by different places**, and it is desired that such subject matter **should be classified in only one of those places**.

Example:

- G02B 1/00 Optical elements
- 1/02 • made of crystals (*G02B 1/08 takes precedence*)
 - 1/04 • made of organic materials, e.g. plastics (*G02B 1/08 takes precedence*)
 - 1/08 • made of polarising materials

Overlap excluded by
precedence references



2. Non-limiting references

✓ References of the three categories below:

(2a) Application-oriented references

(2b) References out of a residual place

(2c) Informative references



2. Non-limiting references

(2a) Application-oriented references

- ✓ References from function-oriented (general) places to application-oriented places (places where the subject matter is covered if it is specially adapted, used for a particular purpose or incorporated in a larger system)

Example:

H01S	Devices using stimulated emission
H01S 3/00	<u>Lasers</u>

The following are application-oriented places:

A61F 9/008	Eye surgery <u>using laser</u>
B41J 2/44, 2/455	<u>Laser printers</u>
G11B 7/125	<u>Laser heads</u> for recording or reproducing



2. Non-limiting references

(2b) References out of a residual place

✓ References appearing in a residual place, illustrating places which cover the subject matter

Example:

F21K 99/00 Light sources not otherwise provided for

F21K is residual to the whole of the IPC, and the following are examples of references to other places:

C11C Candles

H01K Electric incandescent lamps

H01L 33/00 LEDs



2. Non-limiting references

(2c) Informative references

- ✓ References indicating the location of subject matter that could be of interest for search, but which subject matter is not within the scope.
- ✓ Fulfil the following requirements:
 - the subject matter “does not fit” in the place, but
 - that subject matter is still interesting for search.
- ✓ In the IPC Definitions, informative references are listed in tabular form.

Example:

H01S 3/00 Lasers

Informative references:

G02F Control of light beams in general

G02B 27/48 Laser speckle optics



Elements of IPC scheme

- ✓ Classification places: Symbol + Title + Hierarchy
- ✓ References

- ✓ **Notes**

- ✓ Subsection
- ✓ Guidance Heading
- ✓ Subclass Index and Class index



Determine the scope of IPC groups.



Notes

- ✓ They are separate statements after entries starting with “Note(s)”.
- ✓ Define the scope of places:
 - “This place covers ...”;*
 - “This place does not cover ...”.*
- ✓ Define terminology (e.g. B22F, G02).
- ✓ Indicate classification rules (e.g. note 5 after G01R).
- ✓ Apply only to the place where they are, including all hierarchically lower places.



IPC Home Page - Help

Version

2014.01

Current symbol

B22F

Go to

Language

☒ English

☐ French

☐ English/French

View mode

☐ path

☒ full

☐ hierarchic

☐ Show CPC/FI

☐ Deleted entries

☐ Subclass indexes

☐ Guidance headings

☒ Notes

Scheme

RCL

Compilation

Catchwords

Guide to the IPC



B22F

WORKING METALLIC POWDER; MANUFACTURE OF ARTICLES FROM METALLIC POWDER; MAKING METALLIC POWDER (making alloys by powder metallurgy C22C); **APPARATUS OR DEVICES SPECIALLY ADAPTED FOR METALLIC POWDER**

Note(s)

1. This subclass covers the making of **metallic powder** only insofar as **powder** with specific physical **characteristics** is made. [6]
2. In this subclass, the following terms or expressions are used with the meanings indicated:
 - "**metallic powder**" covers **powders** containing a substantial proportion of non-metallic **material**;
 - "**powder**" includes somewhat larger particles which are worked, obtained or behave in a manner similar to **powder**, e.g. fibres.



B22F 1/00

Special **treatment** of metallic powder, e.g. to facilitate working, to improve properties; Metallic powders **per se**, e.g. mixtures of particles of different composition



B22F 1/02

• comprising coating of the **powder** [2]



B22F 3/00

Manufacture of workpieces or articles from metallic powder characterised by the manner of compacting or sintering; **Apparatus** specially adapted therefor



B22F 3/02

• **Compacting** only



B22F 3/03

• • Press-moulding **apparatus** therefor [6]



B22F 3/035

• • • with one or more of the parts thereof being pivotally mounted [6]



B22F 3/04

• • by applying **fluid** pressure

Notes



Notes

Example:

A23C DAIRY PRODUCTS, e.g. MILK, BUTTER, CHEESE; MILK OR CHEESE SUBSTITUTES; MAKING THEREOF

Note(s)

This subclass covers:

- the chemical aspects of making dairy products;*
- the apparatus used for performing techniques provided for therein, e.g. for concentration, evaporation, drying, preservation, ---*

F03D WIND MOTORS

Note(s)

- This subclass covers wind motors, i.e. mechanisms for converting the energy of wind into useful mechanical power, and the transmission of such power to its point of use.*
- This subclass does not cover electrical power generation or distribution aspects of wind-power plants, which are covered by section H, e.g. H02J or H02P.*



Elements of IPC scheme

- ✓ Classification places: symbol + title + hierarchy
- ✓ References
- ✓ Notes
- ✓ **Subsections**
- ✓ **Guidance headings**
- ✓ **Subclass index and Class index**



Facilitate use of IPC.



Subsections

- ✓ **Subsections** are **informative headings** without symbol separating Classes of similar content.

Example:

Section A	HUMAN NECESSITIES
<i>Subsection</i>	<u>AGRICULTURE</u>
Class A 01	AGRICULTURE; FORESTRY; ANIMAL ...
<i>Subsection</i>	<u>FOODSTUFFS; TOBACCO</u>
Class A 21	BAKING; EQUIPMENT FOR MAKING ...
Class A 22	BUTCHERING; MEAT TREATMENT; ...
Class A 24	TOBACCO; CIGARS; CIGARETTES



Guidance Headings

- ✓ **Guidance Headings** are underlined titles indicating the common subject matter of the following groups until the next guidance heading or horizontal line.

Example:

A24F

Tobacco pipes

1/00 Tobacco pipes

3/00 Tobacco pipes combined with other objects

Component parts or accessories for pipes; Mouthpieces

5/00 Bowls for pipes

7/00 Mouthpieces for pipes; Mouthpieces for cigar or cigarette holders

...



Guidance Headings

Example:

A63B 43/00	Balls with special arrangements
A63B 45/00	Apparatus or methods for manufacturing balls (working of plastics or substances in a plastic state B29)
A63B 47/00	Devices for handling or treating balls
	<u>Rackets, bats, or other accessories for ball games</u>
A63B 49/00	Tennis, badminton, or like rackets
A63B 51/00	Stringing tennis rackets
A63B 53/00	Golf clubs
A63B 55/00	Bags for golf clubs; Stands for golf clubs for use on the course
A63B 57/00	Golf game accessories, e.g. golf cups, golf tees
A63B 59/00	Bats, rackets, or the like, for other games (bats with a ball tethered thereto A63B 67/20)
A63B 61/00	Tennis nets or accessories for tennis or like games
A63B 63/00	Targets or goals for ball games (golf cups A63B 57/00)
A63B 65/00	Implements for throwing (throwing toys A63H 33/18)
A63B 67/00	Sporting games not provided for in groups A63B 1/00-A63B 65/00
A63B 69/00	Training appliances or apparatus for special sports (training of parachutists B64C 23/00)
A63B 71/00	Games or sports accessories not covered in groups A63B 1/00-A63B 69/00 (starting appliances A63K 3/02)

← Guidance heading

↘ Horizontal line



Subclass Index

- ✓ **Subclass Index** is an informative summary giving a broad survey of the content of the subclass.

Example:

A62B **DEVICES, APPARATUS OR METHODS FOR LIFE-SAVING** (valves specially adapted for medical **use** **A61M 39/00**; composition of chemical substances used in respirators, gas-masks, breathing **apparatus** or the like **A62D**; rescuing from mountains or trees **A63B 27/00**, **A63B 29/00**; life-saving devices, **apparatus** or methods specially adapted for **use** in water **B63C 9/00**; divers' equipment **B63C 11/00**; specially adapted for **use** with aircraft, e.g. parachutes or ejector seats, **B64D**; rescue devices peculiar to mining **E21F 11/00**)

Subclass indexes

RESCUING, e.g. IN CASE OF FIRE

Means for escape or protection

1/00, 3/00, 5/00

Breathing containers

31/00

Safety means for seemingly-dead persons

33/00

INDIVIDUAL BREATHING MASKS OR **APPARATUS**

Types

7/00, 18/00

Details

9/00, 18/08

Cartridges, oxygen generators, filters

19/00, 21/00, 23/00

Storing, testing

25/00, 27/00

PROTECTIVE CLOTHING, SAFETY BELTS

17/00, 35/00

COLLECTIVE DEVICES FOR BREATHING PROTECTION OR FOR PROTECTION AGAINST CHEMICAL AGENTS

Air conditioning or ventilation in sealed rooms

11/00, 13/00

Other protection

15/00, 29/00

OTHER LIFE SAVING

99/00





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A63B

APPARATUS FOR PHYSICAL TRAINING, GYMNASTICS, SWIMMING, CLIMBING, OR FENCING; BALL GAMES; TRAINING EQUIPMENT (**apparatus** for passive exercising, massage **A61H**)

Subclass indexesGYMNASTIC **APPARATUS**

Bars; Balance beams 1/00, 3/00; 4/00
Apparatus for jumping; stilts 5/00, 6/00; 25/00
Freely-suspended **apparatus**; climbing poles, frames, or stages 7/00; 9/00
Clubs 15/00
Other exercising **apparatus** 17/00-23/00, 26/00
Controls 24/00

APPARATUS FOR SPECIAL SPORTS

Climbing, mountaineering 27/00, 29/00
31/00-35/00
37/00-47/00
53/00-57/00
ball games 49/00, 51/00, 59/00, 61/00, 63/00
wing 65/00
Training equipment 69/00
OTHER SPORTING GAMES; OTHER ACCESSORIES 67/00; 71/00

Gymnastic exercising **apparatus** [3]

A63B 1/00

Horizontal bars for gymnastics



A63B 1/04

• Cleaning the rods

Guidance Headings
Subclass Indexes



Exercise

Q7) In main group A47C 1/00, where would you classify:

- (a) devices for reserving a theatre chair?
- (b) a theatre chair tipping upwards?
- (c) devices for reserving a beach chair?

A47C 1/00 Chairs adapted for special purposes

A47C 1/02 · Reclining or easy chairs

A47C 1/04 · Hairdressers' or similar chairs

A47C 1/12 · Theatre, auditorium, or similar chairs

A47C 1/121 · · having tipping-up seats

A47C 1/122 · · · tipping-up sideways

A47C 1/124 · · Separate chairs, connectible together into a row

A47C 1/126 · · stowable in floor or wall

A47C 1/13 · · Indicators; Devices for reserving or the like

A47C 1/14 · Beach chairs



Answer

A7) (a) devices for reserving a theatre chair?

(b) a theatre chair tipping upwards?

(c) devices for reserving a beach chair?

A47C 1/00 Chairs adapted for special purposes

A47C 1/02 · Reclining or easy chairs

A47C 1/04 · Hairdressers' or similar chairs

A47C 1/12 · Theatre, auditorium, or similar chairs

A47C 1/121 · · having tipping-up seats

A47C 1/122 · · · tipping-up sideways

A47C 1/124 · · Separate chairs, connectible together into a row

A47C 1/126 · · stowable in floor or wall

A47C 1/13 · · Indicators; Devices for reserving or the like

A47C 1/14 · Beach chairs



Answer

A7)

(a) devices for reserving a theatre chair

A47C 1/13

(b) a theatre chair tipping upwards

A47C 1/121

(c) devices for reserving a beach chair

A47C 1/14



Exercise

Q8) In B26D, where would you classify
cutting several slices of tomato at one time with a circular
knife?

B26D 1/00 Cutting through work characterised by the nature or movement
of the cutting member; Apparatus or machines therefor; ...

B26D 1/01 · involving a cutting member which does not travel with the work

B26D 1/02 · · having a stationary cutting member

B26D 1/03 · · · with a plurality of cutting members

B26D 1/04 · · having a linearly-movable cutting member

B26D 1/12 · · having a cutting member moving about an axis

B26D 1/14 · · · with a circular cutting member, e.g. disc cutter

B26D 1/25 · · · with a non-circular cutting member

B26D 1/44 · · having a cup or like cutting member

B26D 1/45 · · having a cutting member the movement of which is not
covered by any preceding group

B26D 1/46 · · having an endless band-knife or the like



A8) Cutting several slices of tomato at one time with a circular knife

B26D 1/00 Cutting through work characterised by the nature or movement of the cutting member; Apparatus or machines therefor; ...

B26D 1/01 · involving a cutting member which does not travel with the work

B26D 1/02 · · having a stationary cutting member

B26D 1/03 · · · with a plurality of cutting members

B26D 1/04 · · having a linearly-movable cutting member

B26D 1/12 · · having a cutting member moving about an axis

B26D 1/14 · · · with a circular cutting member, e.g. disc cutter

B26D 1/25 · · · with a non-circular cutting member

B26D 1/44 · · having a cup or like cutting member

B26D 1/45 · · having a cutting member the movement of which is not covered by any preceding group

B26D 1/46 · · having an endless band-knife or the like



Answer

A8) Cutting several slices of tomato at one time with a circular knife

B26D 1/14



Exercise

Q9) In A47G, clothes hangers are in 25/00 and subordinate groups. Where would you classify a wire clothes hanger?

- A47G 25/00 Household implements used in connection with wearing apparel; ...
- A47G 25/02 · Dress holders; Dress suspending devices; ...
- A47G 25/10 · Hat holders; Hat racks
- A47G 25/12 · Cane or umbrella stands or holders
- A47G 25/14 · Clothing hangers, e.g. suit hangers
- A47G 25/16 · · for complete outfits
- A47G 25/18 · · for two or more similar garments
- A47G 25/20 · · with devices for preserving the shape of the clothes
- A47G 25/22 · · specially adapted for furs
- A47G 25/24 · · made of wire
- A47G 25/40 · · Collapsible hangers
- A47G 25/42 · · · made of wire
- A47G 25/44 · · Slidable hangers
- A47G 25/46 · · · made of wire
- A47G 25/48 · · Hangers with clamps or the like, e.g. for trousers or skirts
- A47G 25/52 · · · made of wire
- A47G 25/60 · Hangers having provision for perfumes or for pesticides or pest repellent
- A47G 25/62 · Trouser or skirt stretchers or tensioners of the hanger type
- A47G 25/64 · · made of wire



Answer

A9) A wire clothes hanger?

- A47G 25/00 Household implements used in connection with wearing apparel; ...
- A47G 25/02 · Dress holders; Dress suspending devices; ...
- A47G 25/10 · Hat holders; Hat racks
- A47G 25/12 · Cane or umbrella stands or holders
- A47G 25/14 · **Clothing hangers**, e.g. suit hangers
- A47G 25/16 · · for complete outfits
- A47G 25/18 · · for two or more similar garments
- A47G 25/20 · · with devices for preserving the shape of the clothes
- A47G 25/22 · · specially adapted for furs
- A47G 25/24 · · made of wire**
- A47G 25/40 · · Collapsible hangers
- A47G 25/42 · · · **made of wire**
- A47G 25/44 · · Slidable hangers
- A47G 25/46 · · · **made of wire**
- A47G 25/48 · · Hangers with clamps or the like, e.g. for trousers or skirts
- A47G 25/52 · · · **made of wire**
- A47G 25/60 · Hangers having provision for perfumes or for pesticides or pest repellent
- A47G 25/62 · Trouser or skirt stretchers or tensioners of the hanger type
- A47G 25/64 · · **made of wire**



Answer

A9) A wire clothes hanger

A47G 25/24



Exercise

Q10) Wheels for a trailer? (indicate main groups)
Component parts of trailers are classified in
B62D 63/08.

B62D MOTOR VEHICLES; TRAILERS (steering, or guiding on a desired track, of agricultural machines or implements A01B 69/00; wheels, castors, axles, increasing wheel adhesion B60B; vehicle tyres, tyre inflation or tyre changing B60C; connections between vehicles of a train or the like B60D; vehicles for use on rail and road, amphibious or convertible vehicles B60F; suspension arrangements B60G; ...)

...

- B62D 63/00 Motor vehicles or trailers not otherwise provided for
- B62D 63/02 · Motor vehicles
- B62D 63/04 · · Component parts or accessories
- B62D 63/06 · Trailers
- B62D 63/08 · · Component parts or accessories



Answer

A10) Wheels for a trailer? (indicate main groups)

Component parts of trailers are classified in B62D 63/08. However, see the second reference in subclass title.

B62D MOTOR VEHICLES; TRAILERS (steering, or guiding on a desired track, of agricultural machines or implements A01B 69/00; **wheels, castors, axles, increasing wheel adhesion B60B**; vehicle tyres, tyre inflation or tyre changing B60C; connections between vehicles of a train or the like B60D; vehicles for use on rail and road, amphibious or convertible vehicles B60F; suspension arrangements B60G; ---)



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B60B

VEHICLE WHEELS (making wheels or wheel parts by rolling [B21H 1/00](#), by forging, hammering or pressing [B21K 1/28](#)); **CASTORS; AXLES; INCREASING WHEEL ADHESION**

Note(s)

Attention is drawn to the Note following the title of class [B60](#).

Wheels



B60B 1/00

Spoked wheels; Spokes thereof (non-metallic [B60B 5/00](#)) [2]



B60B 3/00

Disc wheels, i.e. wheels with load-supporting disc body (non-metallic [B60B 5/00](#); wheel cover discs [B60B 7/00](#))



B60B 5/00

Wheels, spokes, disc bodies, rims, hubs, wholly or predominantly made of non-metallic material (wheel cover discs [B60B 7/00](#); wheels of high resiliency [B60B 9/00](#))



B60B 7/00

Wheel cover discs, rings, or the like, for ornamenting, protecting, or obscuring, wholly or in part, the wheel body, rim, hub, or tyre sidewall [5]



B60B 9/00

Wheels of high resiliency



B60B 11/00

Units comprising multiple wheels arranged side by side; Wheels having more than one rim or capable of carrying more than one tyre



B60B 15/00

Wheels or wheel attachments designed for increasing traction (vehicle tyres [B60C](#); non-skid devices temporarily attachable to resilient tyres or resiliently-tyred wheels [B60C 27/00](#))



B60B 17/00

Wheels characterised by rail-engaging elements (of model railways [A63H 19/22](#)) [2]



B60B 19/00

Wheels not otherwise provided for or having characteristics specified in one of the subgroups of this group

Rims; Hubs

Answer

A10) Wheels for a trailer:

B60B 1/00

3/00

5/00

9/00

15/00

19/00



Exercise

Q11) A method of splicing or joining rope?

Subclass D07B covers ropes.

D07B ROPES OR CABLES IN GENERAL (joining ropes or cables to one another or to other objects B65H 69/00, F16G 11/00; mechanical finishing or dressing of ropes D02J; decorative ropes or cords D04D; suspension cables for bridges E01D 19/16; specially adapted for driving, or for being driven by, pulleys or other gearing elements F16G 9/00; electric cables or joints insofar as electrical aspects are essential H01B, H01R)



Answer

A11) A method of splicing or joining rope?

Subclass D07B covers ropes.

However, there is a reference to B65H 69/00 (joining ropes to one another) in the subclass title.

D07B ROPES OR CABLES IN GENERAL (joining ropes or cables to one another or to other objects B65H 69/00, F16G 11/00; mechanical finishing or dressing of ropes D02J; decorative ropes or cords D04D; suspension cables for bridges E01D 19/16; specially adapted for driving, or for being driven by, pulleys or other gearing elements F16G 9/00; electric cables or joints insofar as electrical aspects are essential H01B, H01R)



Answer

A11) A method of splicing or joining rope?

B65H HANDLING THIN OR FILAMENTARY MATERIAL, e.g.
SHEETS, WEBS, CABLES

...

B65H 69/00 **Methods of, or devices for, interconnecting
successive lengths of material; ...**

B65H 69/02 · by means of adhesives

B65H 69/04 · by knotting

B65H 69/06 · by splicing

B65H 69/08 · by welding



Exercise

Q12) A machine for sorting eggs by weight?

B07C is “Sorting individual articles” and B07C 5/16 is “Sorting according to weight”.



Answers

A12) B07C is “Sorting individual articles” and
B07C 5/16 is “Sorting according to weight”.
However, in B07C 5/16, there is a reference
to “sorting eggs A01K 43/00”.
A01K 43/00





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مالکیت معنوی نوآوری برای آینده بهتر

