

# CPC COOPERATIVE PATENT CLASSIFICATION

## A HUMAN NECESSITIES

### FOODSTUFFS; TOBACCO

#### A23 FOODS OR FOODSTUFFS; TREATMENT THEREOF, NOT COVERED BY OTHER CLASSES

(NOTE omitted)

#### A23L FOODS, FOODSTUFFS, OR NON-ALCOHOLIC BEVERAGES, NOT COVERED BY SUBCLASSES [A23B](#) - [A23J](#); THEIR PREPARATION OR TREATMENT, e.g. COOKING, MODIFICATION OF NUTRITIVE QUALITIES, PHYSICAL TREATMENT (shaping or working, not fully covered by this subclass, [A23P](#)); PRESERVATION OF FOODS OR FOODSTUFFS, IN GENERAL

##### WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

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| <p><b>2/00</b> Non-alcoholic beverages; Dry compositions or concentrates therefor; Their preparation (soup concentrates <a href="#">A23L 23/10</a>; preparation of non-alcoholic beverages by removal of alcohol {<a href="#">C12H 3/00</a>})</p> <p>2/02 . containing fruit or vegetable juices</p> <p>2/04 . . Extraction of juices (machines or apparatus for extracting juice <a href="#">A23N 1/00</a>, <a href="#">A47J 19/00</a>)</p> <p>2/06 . . . from citrus fruits</p> <p>2/08 . . Concentrating or drying of juices</p> <p>2/082 . . . {by membrane processes}</p> <p>2/085 . . . . {by osmosis, reverse osmosis, electrodialysis}</p> <p>2/087 . . . . {by ultrafiltration, microfiltration}</p> <p>2/10 . . . by heating or contact with dry gases</p> <p>2/102 . . . . {Spray-drying}</p> <p>2/105 . . . . {Foam-drying}</p> <p>2/107 . . . . {Electric or wave heating}</p> <p>2/12 . . . by freezing</p> <p>2/14 . . . and sublimation</p> <p>2/38 . Other non-alcoholic beverages (drinks from legumes <a href="#">A23L 11/60</a>)</p> <p><b><u>WARNING</u></b></p> <p>Group <a href="#">A23L 2/38</a> is impacted by reclassification into groups <a href="#">A23L 11/60</a> and <a href="#">A23L 11/65</a>.</p> <p>Groups <a href="#">A23L 2/38</a>, <a href="#">A23L 11/60</a>, and <a href="#">A23L 11/65</a> should be considered in order to perform a complete search.</p> <p>2/382 . . {fermented (fermented nut meats or seeds <a href="#">A23L 25/40</a>; fermented milk preparations <a href="#">A23C 9/12</a>; addition of bacteria for nutritional purposes <a href="#">A23L 33/135</a>)}</p> <p>2/385 . Concentrates of non-alcoholic beverages</p> <p>2/39 . . Dry compositions</p> <p>2/395 . . . in a particular shape or form</p> <p>2/40 . Effervescence-generating compositions</p> <p>2/42 . Preservation of non-alcoholic beverages</p> | <p>2/44 . . by adding preservatives</p> <p>2/46 . . by heating</p> <p>2/48 . . . by irradiation or electric treatment</p> <p>2/50 . . by irradiation or electric treatment without heating</p> <p>2/52 . Adding ingredients (adding preservatives <a href="#">A23L 2/44</a>)</p> <p>2/54 . . Mixing with gases</p> <p>2/56 . . Flavouring or bittering agents (sweeteners <a href="#">A23L 2/60</a>)</p> <p>2/58 . . Colouring agents</p> <p>2/60 . . Sweeteners</p> <p>2/62 . . Clouding agents; Agents to improve the cloud-stability</p> <p>2/64 . . Re-adding volatile aromatic ingredients</p> <p>2/66 . . Proteins</p> <p>2/68 . . Acidifying substances</p> <p>2/70 . Clarifying or fining of non-alcoholic beverages; Removing unwanted matter (purifying water <a href="#">C02F</a>, e.g. by ion-exchange <a href="#">C02F 1/42</a>)</p> <p>2/72 . . by filtration</p> <p>2/74 . . . using membranes, e.g. osmosis, ultrafiltration</p> <p>2/76 . . by removal of gases</p> <p>2/78 . . by ion-exchange</p> <p>2/80 . . by adsorption</p> <p>2/82 . . by flocculation</p> <p>2/84 . . using microorganisms or biological material, e.g. enzymes</p> |
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**3/00 Preservation of foods or foodstuffs, in general, e.g. pasteurising, sterilising, specially adapted for foods or foodstuffs** (preservation of flour or bread [A21D](#); processes specially adapted for particular foods or foodstuffs, see the relevant groups for the foods or foodstuffs in [A23](#); preserving foods or foodstuffs in association with packaging [B65B 55/00](#); preservation of alcoholic beverages [C12H](#))

#### NOTE

In groups [A23L 3/3472](#) - [A23L 3/3562](#), the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place. {This Note corresponds to IPC Note (1) relating to [A23L 3/3472](#) - [A23L 3/3562](#)}

- 3/001 . {Details of apparatus, e.g. for transport, for loading or unloading manipulation, pressure feed valves}
- 3/003 . {Control or safety devices for sterilisation or pasteurisation systems}
- 3/005 . by heating using irradiation or electric treatment (drying or kilning [A23L 3/40](#))
- 3/0055 . . {with infra-red rays}
- 3/01 . . using microwaves or dielectric heating
- 3/015 . by treatment with pressure variation, shock, acceleration or shear stress {or cavitation}
- 3/0155 . . {using sub- or super-atmospheric pressures, or pressure variations transmitted by a liquid or gas}
- 3/02 . by heating materials in packages which are progressively transported, continuously or stepwise, through the apparatus ([A23L 3/005](#) takes precedence)
- 3/022 . . {with packages moving on the spot while being transported}
- 3/025 . . {with packages on a drum with horizontal axis ([A23L 3/022](#) takes precedence)}
- 3/027 . . . {transported in a hydrostatic chamber}
- 3/04 . . with packages on endless chain or band conveyors {([A23L 3/022](#) takes precedence)}
- 3/045 . . . {transported in a hydrostatic chamber}
- 3/06 . . with packages transported along a helical path {([A23L 3/022](#) takes precedence)}
- 3/065 . . . {transported in a hydrostatic chamber}
- 3/08 . . with packages on a revolving platform {([A23L 3/022](#) takes precedence)}
- 3/085 . . . {transported in a hydrostatic chamber}
- 3/10 . by heating materials in packages which are not progressively transported through the apparatus ([A23L 3/005](#) takes precedence)
- 3/12 . . with packages in intercommunicating chambers through which the heating medium is circulated
- 3/14 . . with packages moving on the spot
- 3/16 . by heating loose, unpacked materials ([A23L 3/005](#) takes precedence)
- 3/165 . . {in solid state}
- 3/18 . . while they are progressively transported through the apparatus
- 3/185 . . . {in solid state}
- 3/20 . . . with transport along plates
- 3/205 . . . . {in solid state}
- 3/22 . . . with transport through tubes
- 3/225 . . . . {in solid state}
- 3/24 . . with the materials in spray form

- 3/245 . . . {in solid state}
- 3/26 . by irradiation without heating
- 3/263 . . {with corpuscular or ionising radiation, i.e. X, alpha, beta or omega radiation (laser plasma radiation [A23L 3/26](#))}
- 3/266 . . {with corona irradiation}
- 3/28 . . with ultra-violet light
- 3/30 . . by treatment with ultrasonic waves
- 3/32 . by treatment with electric currents without heating effect
- 3/325 . . {by electrolysis}
- 3/34 . by treatment with chemicals
- 3/3409 . . in the form of gases, e.g. fumigation; Compositions or apparatus therefor
- 3/34095 . . . {Details of apparatus for generating or regenerating gases}
- 3/3418 . . . in a controlled atmosphere, e.g. partial vacuum, comprising only CO<sub>2</sub>, N<sub>2</sub>, O<sub>2</sub> or H<sub>2</sub>O
- 3/3427 . . . . in which an absorbent is placed or used (packages for foodstuffs with provision for absorbing fluids [B65D 81/26](#))
- 3/3436 . . . . . Oxygen absorbent
- 3/3445 . . . in a controlled atmosphere comprising other gases in addition to CO<sub>2</sub>, N<sub>2</sub>, O<sub>2</sub> or H<sub>2</sub>O
- 3/3454 . . in the form of liquids or solids
- 3/3463 . . . Organic compounds; Microorganisms; Enzymes

#### NOTE

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- 3/34635 . . . . . {Antibiotics}
- 3/3472 . . . . Compounds of undetermined constitution obtained from animals or plants
- 3/3481 . . . . Organic compounds containing oxygen
- 3/349 . . . . . with singly-bound oxygen
- 3/3499 . . . . . with doubly-bound oxygen
- 3/3508 . . . . . containing carboxyl groups
- 3/3517 . . . . . Carboxylic acid esters
- 3/3526 . . . . Organic compounds containing nitrogen
- 3/3535 . . . . Organic compounds containing sulfur
- 3/3544 . . . . Organic compounds containing hetero rings
- 3/3553 . . . . Organic compounds containing phosphorus
- 3/3562 . . . . Sugars; Derivatives thereof
- 3/3571 . . . . Microorganisms; Enzymes
- 3/358 . . . Inorganic compounds
- 3/3589 . . . Apparatus for preserving using liquids
- 3/3598 . . . Apparatus for preserving using solids
- 3/36 . Freezing; Subsequent thawing; Cooling
- 3/361 . . {the materials being transported through or in the apparatus, with or without shaping, e.g. in form of powder, granules, or flakes (moving on the spot only [A23L 3/363](#))}
- 3/362 . . . {with packages or with shaping in form of blocks or portions}
- 3/363 . . {the materials not being transported through or in the apparatus with or without shaping, e.g. in form of powder, granules, or flakes}

- 3/364 . . . {with packages or with shaping in form of blocks or portions}
- 3/365 . . Thawing subsequent to freezing
- 3/37 . . with addition of {or treatment with} chemicals
- 3/375 . . . with direct contact between the food and the chemical, e.g. liquid nitrogen, at cryogenic temperature
- 3/40 . by drying or kilning; Subsequent reconstitution
- 3/405 . . {Fractionated crystallisation}
- 3/42 . . with addition of chemicals before or during drying
- 3/44 . . Freeze-drying
- 3/46 . . Spray-drying
- 3/48 . . Thin layer-, drum- or roller-drying
- 3/485 . . . {Drum- or roller-drying}
- 3/50 . . Fluidised-bed drying
- 3/52 . . Foam-drying
- 3/54 . . using irradiation or electrical treatment, e.g. ultrasonic waves
- 5/00 Preparation or treatment of foods or foodstuffs, in general; Food or foodstuffs obtained thereby; Materials therefor (preservation thereof in general A23L 3/00)**
- 5/10 . General methods of cooking foods, e.g. by roasting or frying
- 5/11 . . {using oil}
- 5/12 . . . {Processes other than deep-frying or float-frying using cooking oil in direct contact with the food}
- 5/13 . . {using water or steam}
- 5/15 . . {using wave energy, irradiation, electrical means or magnetic fields, e.g. oven cooking or roasting using radiant dry heat}
- 5/17 . . {in a gaseous atmosphere with forced air or gas circulation, in vacuum or under pressure}
- 5/19 . . {using chemicals before or during cooking, e.g. liquid cooking media other than water or oil; Cooking using inert particles, e.g. fluidised bed cooking (using additives to cooking oil A23L 5/11)}
- 5/20 . Removal of unwanted matter, e.g. deodorisation or detoxification (removing undesirable, e.g. bitter, substances from pulses or legumes A23L 11/30)
- 5/21 . . {by heating without chemical treatment, e.g. steam treatment, cooking}
- 5/23 . . {by extraction with solvents}
- 5/25 . . {using enzymes}
- 5/27 . . {by chemical treatment, by adsorption or by absorption}
- 5/273 . . . {using adsorption or absorption agents, resins, synthetic polymers, or ion exchangers}
- 5/276 . . . {Treatment with inorganic compounds (A23L 5/273 takes precedence)}
- 5/28 . . {using microorganisms}
- 5/30 . Physical treatment, e.g. electrical or magnetic means, wave energy or irradiation (preservation A23L 3/00, A23B; cooking A23L 5/10)
- 5/32 . . {using phonon wave energy, e.g. sound or ultrasonic waves}
- 5/34 . . {using microwaves}
- 5/36 . . {using irradiation with frequencies of more than 10 MHz}
- 5/40 . Colouring or decolouring of foods
- 5/41 . . Retaining or modifying natural colour by use of additives, e.g. optical brighteners (A23L 5/42 takes precedence)
- 5/42 . . Addition of dyes or pigments, e.g. in combination with optical brighteners
- 5/43 . . . using naturally occurring organic dyes or pigments, their artificial duplicates or their derivatives
- 5/44 . . . . using carotenoids or xanthophylls
- 5/46 . . . using dyes or pigments of microbial or algal origin
- 5/47 . . . using synthetic organic dyes or pigments not covered by groups A23L 5/43 - A23L 5/46
- 5/48 . . . . Compounds of unspecified constitution characterised by the chemical process for their preparation
- 5/49 . . Removing colour by chemical reaction, e.g. bleaching
- 5/51 . {Concentration}
- 5/55 . {Rehydration or dissolving of foodstuffs}
- 5/57 . {Chemical peeling or cleaning of harvested fruits, vegetables or other foodstuffs (mechanical aspect A23N, A23P)}
- 7/00 Cereal-derived products; Malt products (malt products of pulses A23L 11/70); Preparation or treatment thereof (preparation of malt for brewing C12C)**
- 7/10 . Cereal-derived products
- 7/101 . . {Addition of antibiotics, vitamins, amino-acids, or minerals}
- 7/104 . . Fermentation of farinaceous cereal or cereal material; Addition of enzymes or microorganisms (A23L 7/109, A23L 7/20 take precedence; soya sauce A23L 27/50)
- 7/107 . . . {Addition or treatment with enzymes not combined with fermentation with microorganisms}
- 7/109 . . Types of pasta, e.g. macaroni or noodles
- 7/11 . . . {Filled, stuffed or multilayered pasta}
- 7/111 . . . {Semi-moist pasta, i.e. containing about 20% of moist; Moist packaged or frozen pasta; Pasta fried or pre-fried in a non-aqueous frying medium, e.g. oil; Packaged pasta to be cooked directly in the package}
- 7/113 . . . Parboiled or instant pasta
- 7/115 . . {Cereal fibre products, e.g. bran, husk}
- 7/117 . . Flakes or other shapes of ready-to-eat type; Semi-finished or partly-finished products therefor (A23L 7/143, A23L 7/152 take precedence)
- 7/122 . . . Coated, filled, multilayered or hollow ready-to-eat cereals
- 7/126 . . . Snacks or the like obtained by binding, shaping or compacting together cereal grains or cereal pieces, e.g. cereal bars
- 7/13 . . . Snacks or the like obtained by oil frying of a formed cereal dough
- 7/135 . . . Individual or non-extruded flakes, granules or shapes having similar size, e.g. breakfast cereals
- 7/139 . . . . made from wholegrain or grain pieces without preparation of meal or dough
- 7/143 . . Cereal granules or flakes to be cooked and eaten hot, e.g. oatmeal; Reformed rice products

7/148	. . . made from wholegrain or grain pieces without preparation of meal or dough	11/05	. {Mashed or comminuted pulses or legumes; Products made therefrom ( <a href="#">A23L 11/30</a> takes precedence; tofu or soya cheese <a href="#">A23L 11/45</a> ; soy drinks <a href="#">A23L 11/65</a> )}
7/152	. . Cereal germ products		
7/157	. . Farinaceous granules for dressing meat, fish or the like	11/07	. . {Soya beans, e.g. oil-extracted soya bean flakes ( <a href="#">A23L 11/30</a> takes precedence)}
7/161	. . Puffed cereals, e.g. popcorn or puffed rice		
7/165	. . . Preparation of puffed cereals involving preparation of meal or dough as an intermediate step	11/10	. Rapid cooking pulses
		11/30	. Removing undesirable substances, e.g. bitter substances
7/17	. . . . by extrusion	11/31	. . {by heating without chemical treatment, e.g. steam treatment, cooking}
7/174	. . . Preparation of puffed cereals from wholegrain or grain pieces without preparation of meal or dough	11/32	. . {by extraction with solvents}
		11/33	. . {using enzymes; Enzymatic transformation of pulses or legumes}
7/178	. . . . by pressure release with or without heating		
7/183	. . . . by heating without using a pressure release device	11/34	. . {using chemical treatment, adsorption or absorption}
			. . . {combined with heat treatment}
7/187	. . . . . Discontinuously-working apparatus	11/35	
7/191	. . . After-treatment of puffed cereals, e.g. coating or salting	11/36	. . {using irradiation, e.g. with wave energy; Using electrical means or magnetic fields}
7/196	. . Products in which the original granular shape is maintained, e.g. parboiled rice	11/37	. . {using microorganisms}
7/1963	. . . {coated with a layer}	11/40	. Pulse curds
7/1965	. . . {Cooked; Precooked; Fried or pre-fried in a non-aqueous liquid frying medium, e.g. oil}		<b>WARNING</b>
7/197	. . {Treatment of whole grains not provided for in groups <a href="#">A23L 7/117</a> - <a href="#">A23L 7/196</a> (preservation <a href="#">A23B 9/00</a> )}		Groups <a href="#">A23L 11/40</a> and <a href="#">A23L 11/45</a> are incomplete pending reclassification of documents from groups <a href="#">A23C 20/005</a> , <a href="#">A23C 20/02</a> , <a href="#">A23C 20/025</a> , and <a href="#">A23L 11/00</a> .
			All groups listed in this Warning should be considered in order to perform a complete search.
7/1975	. . . {Cooking or roasting}		
7/198	. . {Dry unshaped finely divided cereal products, not provided for in groups <a href="#">A23L 7/117</a> - <a href="#">A23L 7/196</a> and <a href="#">A23L 29/00</a> , e.g. meal, flour, powder, dried cereal creams or extracts}		
7/20	. Malt products (malt products of pulses <a href="#">A23L 11/70</a> ; preparation of malt for brewing <a href="#">C12C</a> )	11/45	. . Soy bean curds, e.g. tofu
7/25	. . Fermentation of cereal malt or of cereal by malting	11/50	. Fermented pulses or legumes; Fermentation of pulses or legumes based on the addition of microorganisms (removing undesirable substances <a href="#">A23L 11/30</a> ; soy sauce <a href="#">A23L 27/50</a> )
			<b>WARNING</b>
			Group <a href="#">A23L 11/50</a> is incomplete pending reclassification of documents from group <a href="#">A23L 11/70</a> .
			Groups <a href="#">A23L 11/70</a> and <a href="#">A23L 11/50</a> should be considered in order to perform a complete search.
<b>9/00</b>	<b>Puddings; Cream substitutes; Preparation or treatment thereof</b>		
9/10	. Puddings; Dry powder puddings		
9/12	. . {Ready-to-eat liquid or semi-liquid desserts, e.g. puddings, not to be mixed with liquids, e.g. water, milk}		
9/20	. Cream substitutes		
9/22	. . {containing non-milk fats but no proteins other than milk proteins}	11/60	. Drinks from legumes, e.g. lupine drinks
9/24	. . {containing non-milk fats and non-milk proteins, e.g. eggs or soybeans}		<b>WARNING</b>
			Groups <a href="#">A23L 11/60</a> and <a href="#">A23L 11/65</a> are incomplete pending reclassification of documents from groups <a href="#">A23C 11/10</a> , <a href="#">A23C 11/103</a> , <a href="#">A23C 11/106</a> , <a href="#">A23L 2/38</a> , and <a href="#">A23L 11/00</a> .
			All groups listed in this Warning should be considered in order to perform a complete search.
<b>11/00</b>	<b>Pulses, i.e. fruits of leguminous plants, for production of food; Products from legumes; Preparation or treatment thereof</b>		
	<b>WARNING</b>		
	Group <a href="#">A23L 11/00</a> is impacted by reclassification into groups <a href="#">A23L 11/40</a> , <a href="#">A23L 11/45</a> , <a href="#">A23L 11/60</a> , <a href="#">A23L 11/65</a> , and <a href="#">A23L 11/70</a> .		
	All groups listed in this Warning should be considered in order to perform a complete search.		
11/01	. {Pulses or legumes in form of whole pieces or fragments thereof, without mashing or comminuting ( <a href="#">A23L 11/10</a> - <a href="#">A23L 11/70</a> take precedence)}		
11/03	. . {Soya beans, e.g. full-fat soya bean flakes or grits}	11/65	. . Soy drinks



11/70	<ul style="list-style-type: none"> <li>Germinated pulse products, e.g. from soy bean sprouts</li> </ul> <p><b>WARNING</b></p> <p>Group <a href="#">A23L 11/70</a> is incomplete pending reclassification of documents from group <a href="#">A23L 11/00</a>.</p> <p>Group <a href="#">A23L 11/70</a> is also impacted by reclassification into group <a href="#">A23L 11/50</a>.</p> <p>Groups <a href="#">A23L 11/00</a>, <a href="#">A23L 11/70</a>, and <a href="#">A23L 11/50</a> should be considered in order to perform a complete search.</p>	13/60	<ul style="list-style-type: none"> <li>Comminuted or emulsified meat products, e.g. sausages; Reformed meat from comminuted meat product</li> </ul>
		13/62	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Coating with a layer, stuffing or laminating}</li> </ul> </li> </ul>
		13/65	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Sausages}</li> </ul> </li> </ul>
		13/67	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Reformed meat products other than sausages}</li> </ul> </li> </ul>
		13/70	<ul style="list-style-type: none"> <li>Tenderised or flavoured meat pieces, e.g. obtained by injecting solutions; Macerating solutions</li> </ul>
		13/72	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{using additives, e.g. injection solutions}</li> </ul> </li> </ul>
		13/74	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{using microorganisms or enzymes}</li> </ul> </li> </ul> </li> </ul>
		13/76	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{by treatment in a gaseous atmosphere, e.g. aging, ripening; By electrical treatment, irradiation or wave treatment}</li> </ul> </li> </ul>
<b>13/00</b>	<b>Meat products; Meat meal; Preparation or treatment thereof</b>	<b>15/00</b>	<b>Egg products; Preparation or treatment thereof</b>
13/03	<ul style="list-style-type: none"> <li>{Coating with a layer; Stuffing, laminating, binding, or compressing of original meat pieces}</li> </ul>	15/10	<ul style="list-style-type: none"> <li>Egg rolls</li> </ul>
13/06	<ul style="list-style-type: none"> <li>{with gravy or sauce}</li> </ul>	15/20	<ul style="list-style-type: none"> <li>{Addition of proteins, e.g. hydrolysates, fats, carbohydrates, natural plant hydrocolloids; Addition of animal or vegetable substances containing proteins, fats, or carbohydrates}</li> </ul>
13/10	<ul style="list-style-type: none"> <li>Meat meal or powder; Granules, agglomerates or flakes</li> </ul>		
13/20	<ul style="list-style-type: none"> <li>from offal, e.g. rinds, skins, marrow, tripes, feet, ears or snouts (glands or bones as ingredients of processed meat <a href="#">A23L 13/60</a>)</li> </ul>	15/25	<ul style="list-style-type: none"> <li>{Addition or treatment with microorganisms or enzymes}</li> </ul>
13/30	<ul style="list-style-type: none"> <li>Meat extracts</li> </ul>	15/30	<ul style="list-style-type: none"> <li>{Addition of substances other than those covered by <a href="#">A23L 15/20</a> – <a href="#">A23L 15/25</a>}</li> </ul>
13/40	<ul style="list-style-type: none"> <li>containing additives</li> </ul>	15/35	<ul style="list-style-type: none"> <li>{Egg substitutes}</li> </ul>
13/42	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Additives other than enzymes or microorganisms in meat products or meat meals}</li> </ul> </li> </ul>	<b>17/00</b>	<b>Food-from-the-sea products; Fish products; Fish meal; Fish-egg substitutes; Preparation or treatment thereof</b>
13/422	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Addition of natural plant hydrocolloids, e.g. gums of cellulose derivatives or of microbial fermentation gums}</li> </ul> </li> </ul>	17/10	<ul style="list-style-type: none"> <li>Fish meal or powder; Granules, agglomerates or flakes</li> </ul>
13/424	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Addition of non-meat animal protein material, e.g. blood, egg, dairy products, fish; Proteins from microorganisms, yeasts or fungi}</li> </ul> </li> </ul>	17/20	<ul style="list-style-type: none"> <li>Fish extracts</li> </ul>
13/426	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Addition of proteins, carbohydrates or fibrous material from vegetable origin other than sugars or sugar alcohols (<a href="#">A23L 13/422</a> takes precedence)}</li> </ul> </li> </ul>	17/30	<ul style="list-style-type: none"> <li>Fish eggs, e.g. caviar; Fish-egg substitutes</li> </ul>
13/428	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Addition of flavours, spices, colours, amino acids or their salts, peptides, vitamins, yeast extract or autolysate, nucleic acid or derivatives, organic acidifying agents or their salts or acidogens, sweeteners, e.g. sugars or sugar alcohols; Addition of alcohol-containing products}</li> </ul> </li> </ul>	17/35	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Fish-egg substitutes}</li> </ul> </li> </ul>
13/43	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Addition of vegetable fats or oils; Addition of non-meat animal fats or oils; Addition of fatty acids}</li> </ul> </li> </ul>	17/40	<ul style="list-style-type: none"> <li>Shell-fish</li> </ul>
13/432	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Addition of inorganic compounds, e.g. minerals; oligo-elements}</li> </ul> </li> </ul>	17/50	<ul style="list-style-type: none"> <li>Molluscs</li> </ul>
13/45	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Addition of, or treatment with, microorganisms (<a href="#">A23L 13/74</a> takes precedence)}</li> </ul> </li> </ul>	17/60	<ul style="list-style-type: none"> <li>Edible seaweed</li> </ul>
13/46	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Addition of, or fermentation with fungi, e.g. yeasts; Enrichment with dried biomass other than starter cultures}</li> </ul> </li> </ul>	17/65	<ul style="list-style-type: none"> <li>{Addition of, or treatment with, microorganisms or enzymes}</li> </ul>
13/48	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Addition of, or treatment with, enzymes (<a href="#">A23L 13/74</a> takes precedence)}</li> </ul> </li> </ul>	17/70	<ul style="list-style-type: none"> <li>{Comminuted, e.g. emulsified, fish products; Processed products therefrom such as pastes, reformed or compressed products (<a href="#">A23L 17/65</a>, <a href="#">A23L 17/10</a>, <a href="#">A23L 17/20</a>, <a href="#">A23L 17/40</a>, <a href="#">A23L 17/50</a> take precedence)}</li> </ul>
13/50	<ul style="list-style-type: none"> <li>Poultry products, e.g. poultry sausages</li> </ul>	17/75	<ul style="list-style-type: none"> <li>{Coating with a layer, stuffing, laminating, binding or compressing of original fish pieces}</li> </ul>
13/52	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Comminuted, emulsified or processed products; Pastes; Reformed or compressed products from poultry meat}</li> </ul> </li> </ul>	<b>19/00</b>	<b>Products from fruits or vegetables; Preparation or treatment thereof (of pulses <a href="#">A23L 11/00</a>; marmalades, jams, jellies or the like <a href="#">A23L 21/10</a>; treating harvested fruit or vegetables in bulk <a href="#">A23N</a>)</b>
13/55	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Treatment of original pieces or parts (binding meat pieces in a compact form <a href="#">A23L 13/52</a>)}</li> </ul> </li> </ul>	19/01	<ul style="list-style-type: none"> <li>{Instant products; Powders; Flakes; Granules (<a href="#">A23L 19/10</a> – <a href="#">A23L 19/12</a> take precedence)}</li> </ul>
13/57	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Coating with a layer or stuffing}</li> </ul> </li> </ul>	19/03	<ul style="list-style-type: none"> <li>{consisting of whole pieces or fragments without mashing the original pieces}</li> </ul>
		19/05	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Stuffed or cored products; Multilayered or coated products; Binding or compressing of original pieces}</li> </ul> </li> </ul>
		19/07	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Fruit waste products, e.g. from citrus peel or seeds}</li> </ul> </li> </ul>
		19/09	<ul style="list-style-type: none"> <li>{Mashed or comminuted products, e.g. pulp, purée, sauce, or products made therefrom, e.g. snacks (<a href="#">A23L 19/01</a>, <a href="#">A23L 19/10</a>, <a href="#">A23L 27/63</a> and <a href="#">A23L 21/00</a> take precedence)}</li> </ul>
		19/10	<ul style="list-style-type: none"> <li>of tuberous or like starch containing root crops</li> </ul>

19/105	. . {Sweet potatoes}	27/201	. . {Compounds of unspecified constitution characterised by the chemical reaction for their preparation ( <a href="#">A23L 27/215 takes precedence</a> )}
19/11	. . {Cassava, manioc, tapioca, or fermented products thereof, e.g. gari}	27/202	. . {Aliphatic compounds}
19/115	. . {Konjak; Konntaku}	27/2022	. . . {containing sulfur}
19/12	. . of potatoes	27/2024	. . . {having oxygen as the only hetero atom}
19/13	. . . {Mashed potato products}	27/2026	. . . . {Hydroxy compounds}
19/135	. . . . {Preformed edible shells filled with mashed potatoes; Stuffed mashed potato products}	27/2028	. . . . {Carboxy compounds}
19/14	. . . {Original non-roasted or non-fried potato pieces}	27/203	. . {Alicyclic compounds}
19/15	. . . Unshaped dry products, e.g. powders, flakes, granules or agglomerates	27/204	. . {Aromatic compounds}
19/18	. . . Roasted or fried products, e.g. snacks or chips	27/205	. . {Heterocyclic compounds}
19/19	. . . . {from powdered or mashed potato products ( <a href="#">A23L 19/135 takes precedence</a> )}	27/2052	. . . {having oxygen or sulfur as the only hetero atoms}
19/20	. by pickling, e.g. sauerkraut or pickles	27/2054	. . . {having nitrogen as the only hetero atom}
<b>21/00</b>	<b>Marmalades, jams, jellies or the like; Products from apiculture; Preparation or treatment thereof</b>	27/2056	. . . {having at least two different hetero atoms, at least one being a nitrogen atom}
21/10	. Marmalades; Jams; Jellies; Other similar fruit or vegetable compositions; Simulated fruit products	27/206	. . {Dairy flavours}
21/11	. . {obtained by enzymatic digestion of fruit or vegetable compositions}	27/21	. . containing amino acids
21/12	. . derived from fruit or vegetable solids	27/215	. . . {heated in the presence of reducing sugars, e.g. Maillard's non-enzymatic browning}
21/15	. . derived from fruit or vegetable juices	27/22	. . . containing glutamic acids
21/18	. . Simulated fruit products	27/23	. . containing nucleotides
21/20	. Products from apiculture, e.g. royal jelly or pollen; Substitutes therefor	27/235	. . . {containing also amino acids}
21/25	. . Honey; Honey substitutes	27/24	. . prepared by fermentation
21/27	. . . {Honey substitutes}	27/25	. . . {Dairy flavours}
<b>23/00</b>	<b>Soups; Sauces (<a href="#">A23L 27/50</a>, <a href="#">A23L 27/60 take precedence</a>); Preparation or treatment thereof</b>	27/26	. . Meat flavours
23/10	. Soup concentrates, e.g. powders or cakes	27/27	. . Smoke flavours
<b>25/00</b>	<b>Food consisting mainly of nutmeat or seeds; Preparation or treatment thereof</b>	27/28	. . Coffee or cocoa flavours
25/10	. Peanut butter	27/29	. . Fruit flavours
25/20	. {consisting of whole seeds or seed fragments}	27/30	. Artificial sweetening agents
25/25	. . {coated with a layer}	27/31	. . {containing amino acids, nucleotides, peptides or derivatives}
25/30	. {Mashed or comminuted products, e.g. pulp, pastes, meal, powders; Products made therefrom, e.g. blocks, flakes, snacks; Liquid or semi-liquid products ( <a href="#">A23L 25/10 and A23L 25/40 take precedence</a> )}	27/32	. . . {containing dipeptides or derivatives}
25/40	. {Fermented products; Products treated with microorganisms or enzymes}	27/33	. . {containing sugars or derivatives}
<b>27/00</b>	<b>Spices; Flavouring agents or condiments; Artificial sweetening agents; Table salts; Dietetic salt substitutes; Preparation or treatment thereof</b>	27/34	. . . {Sugar alcohols}
27/10	. Natural spices, flavouring agents or condiments; Extracts thereof	27/35	. . . {Starch hydrolysates}
27/105	. . {obtained from liliaceae, e.g. onions, garlic}	27/36	. . . {Terpene glycosides}
27/11	. . {obtained by solvent extraction}	27/37	. . . {Halogenated sugars}
27/115	. . {obtained by distilling, stripping, or recovering of volatiles}	27/38	. . . {L-sugars}
27/12	. . from fruit, e.g. essential oils	27/39	. . {Addition of sweetness inhibitors}
27/13	. . . {from citrus fruits}	27/40	. Table salts; Dietetic salt substitutes
27/14	. . Dried spices	27/45	. . {Salt substitutes completely devoid of sodium chloride}
27/16	. . . Onions	27/50	. Soya sauce
27/18	. . Mustard	27/60	. Salad dressings; Mayonnaise; Ketchup
27/20	. Synthetic spices, flavouring agents or condiments	27/63	. . {Ketchup}
		27/66	. . {Use of milk products or milk derivatives in the preparation of dressings}
		27/70	. {Fixation, conservation, or encapsulation of flavouring agents}
		27/72	. . {Encapsulation}
		27/74	. . {with a synthetic polymer matrix or excipient, e.g. vinylic, acrylic polymers}
		27/75	. . {the flavouring agents being bound to a host by chemical, electrical or like forces, e.g. use of precursors}
		27/77	. . {Use of inorganic solid carriers, e.g. silica}
		27/79	. . {in the form of films}
		27/80	. {Emulsions}
		27/82	. {Acid flavourants}
		27/84	. {Flavour masking or reducing agents}
		27/86	. {Addition of bitterness inhibitors}

27/88	. {Taste or flavour enhancing agents}	29/35	. . {Degradation products of starch, e.g. hydrolysates, dextrins; Enzymatically modified starches}
<b>29/00</b>	<b>Foods or foodstuffs containing additives</b> (containing additives for modifying the nutritive qualities <a href="#">A23L 33/10</a> ; containing substantially indigestive additives, e.g. dietary fibres, <a href="#">A23L 33/21</a> ); <b>Preparation or treatment thereof</b>	29/37	. . {Sugar alcohols}
29/015	. {Inorganic compounds}	<b>31/00</b>	<b>Edible extracts or preparations of fungi; Preparation or treatment thereof</b>
29/03	. {Organic compounds}	31/10	. Yeasts or derivatives thereof
29/035	. . {containing oxygen as heteroatom (gums <a href="#">A23L 29/25</a> ; sugar or sugar alcohols <a href="#">A23L 29/30</a> )}	31/15	. . Extracts
29/04	. . . {Fatty acids or derivatives}	<b>33/00</b>	<b>Modifying nutritive qualities of foods; Dietetic products; Preparation or treatment thereof</b>
29/045	. . {containing nitrogen as heteroatom}	33/10	. using additives ( <a href="#">A23L 33/21</a> takes precedence)
29/05	. . {containing phosphorus as heteroatom}	33/105	. . Plant extracts, their artificial duplicates or their derivatives
29/055	. . {containing sulfur as heteroatom}	33/11	. . . Plant sterols or derivatives thereof, e.g. phytosterols
29/06	. {Enzymes}	33/115	. . Fatty acids or derivatives thereof; Fats or oils
29/065	. {Microorganisms (addition of bacteria for nutritional purposes <a href="#">A23L 33/135</a> )}	33/12	. . . Fatty acids or derivatives thereof
29/10	. containing emulsifiers	33/125	. . containing carbohydrate syrups; containing sugars; containing sugar alcohols; containing starch hydrolysates ( <a href="#">indigestible substances A23L 33/21</a> )
29/20	. containing gelling or thickening agents (marmalades, jams, jellies or other similar fruit or vegetable compositions <a href="#">A23L 21/10</a> )	33/127	. . {Antibiotics}
29/206	. . of vegetable origin	33/13	. . Nucleic acids or derivatives thereof ( <a href="#">A23L 33/145</a> takes precedence)
29/212	. . . Starch; Modified starch; Starch derivatives, e.g. esters or ethers ( <a href="#">containing starch hydrolysates, e.g. dextrin, A23L 29/30</a> )	33/135	. . Bacteria or derivatives thereof, e.g. probiotics
29/219	. . . . Chemically modified starch; Reaction or complexation products of starch with other chemicals	33/14	. . Yeasts or derivatives thereof
29/225	. . . . Farinaceous thickening agents other than isolated starch or derivatives	33/145	. . . Extracts
29/231	. . . Pectin; Derivatives thereof	33/15	. . Vitamins
29/238	. . . from seeds, e.g. locust bean gum or guar gum ( <a href="#">A23L 29/212, A23L 29/231</a> take precedence)	33/155	. . . Vitamins A or D
29/244	. . . from corms, tubers or roots, e.g. glucomannan ( <a href="#">A23L 29/212</a> takes precedence)	33/16	. . Inorganic salts, minerals or trace elements
29/25	. . . Exudates, e.g. gum arabic, gum acacia, gum karaya or tragacanth	33/165	. . . Complexes or chelates
29/256	. . . from seaweeds, e.g. alginates, agar or carrageenan	33/17	. . Amino acids, peptides or proteins
29/262	. . . Cellulose; Derivatives thereof, e.g. ethers	33/175	. . . Amino acids
29/269	. . of microbial origin, e.g. xanthan or dextran	33/18	. . . Peptides; Protein hydrolysates
29/27	. . . {Xanthan not combined with other microbial gums}	33/185	. . . Vegetable proteins
29/271	. . . {Curdlan; beta-1-3 glucan; Polysaccharides produced by agrobacterium or alcaligenes}	33/19	. . . Dairy proteins
29/272	. . . {Gellan}	33/195	. . . Proteins from microorganisms
29/273	. . . {Dextran; Polysaccharides produced by leuconostoc}	33/20	. Reducing nutritive value; Dietetic products with reduced nutritive value
29/274	. . . {Pullulan}	33/21	. . Addition of substantially indigestible substances, e.g. dietary fibres ( <a href="#">addition of gelling or thickening agents A23L 29/20</a> )
29/275	. . of animal origin, e.g. chitin	33/22	. . . Comminuted fibrous parts of plants, e.g. bagasse or pulp
29/281	. . . Proteins, e.g. gelatin or collagen	33/24	. . . Cellulose or derivatives thereof
29/284	. . . . {Gelatin; Collagen}	33/25	. . . Synthetic polymers, e.g. vinylic or acrylic polymers
29/288	. . Synthetic resins, e.g. polyvinylpyrrolidone	33/26	. . . . Polyol polyesters, e.g. sucrose polyesters; Synthetic sugar polymers, e.g. polydextrose
29/294	. . Inorganic additives, e.g. silica	33/28	. . . Substances of animal origin, e.g. gelatin or collagen
29/30	. containing carbohydrate syrups; containing sugars; containing sugar alcohols, e.g. xylitol; containing starch hydrolysates, e.g. dextrin ( <a href="#">A23L 21/20</a> takes precedence; artificial sweetening agents <a href="#">A23L 27/30</a> )	33/29	. . . Mineral substances, e.g. mineral oils or clays
29/32	. . {Processes or apparatus for dissolving of sugars (dissolving or refining raw sugar <a href="#">C13B 30/14</a> )}	33/30	. {Dietetic or nutritional methods, e.g. for losing weight ( <a href="#">A23L 33/10</a> takes precedence)}
		33/40	. {Complete food formulations for specific consumer groups or specific purposes, e.g. infant formula}
		<b>35/00</b>	<b>Food or foodstuffs not provided for in groups <a href="#">A23L 5/00</a> – <a href="#">A23L 33/00</a>; Preparation or treatment thereof</b>
		35/10	. {Emulsified foodstuffs}
		35/20	. {No-fat spreads}