

SECTION A — HUMAN NECESSITIES

A23 FOODS, FOODSTUFFS OR NON-ALCOHOLIC BEVERAGES; PREPARATION, TREATMENT OR PRESERVATION THEREOF

Note(s) [4]

Attention is drawn to the following places:

C08B.....	Polysaccharides, derivatives thereof
C11.....	Animal or vegetable oils, fats, fatty substances or waxes
C12.....	Biochemistry, beer, spirits, wine, vinegar
C13.....	Sugar industry.

A23B PRESERVATION OF FOODS, FOODSTUFFS OR NON-ALCOHOLIC BEVERAGES; CHEMICAL RIPENING OF FRUIT OR VEGETABLES

Subclass index

PRESERVATION OF FOODS, FOODSTUFFS OR NON-ALCOHOLIC BEVERAGES

in general.....	2/00
of specific products	
meat, sausages, fish or fish products.....	4/00
eggs or egg products.....	5/00
fruit or vegetables.....	7/00
edible seeds, e.g. cereals.....	9/00
milk or dairy products.....	11/00
edible oils or fats.....	20/00
flour or dough before baking.....	40/00
finished bakery products.....	45/00
non-alcoholic beverages.....	70/00
Pulses.....	75/00
cocoa or cocoa products.....	80/00
tea, tea substitutes or herbal tea.....	85/00
coffee or coffee substitutes.....	90/00
CHEMICAL RIPENING OF FRUIT OR VEGETABLES.....	7/00
SUBJECT MATTER NOT PROVIDED FOR IN OTHER GROUPS OF THIS SUBCLASS.....	99/00

- 2/00 **Preservation of foods or foodstuffs, in general [2025.01]**
- Note(s) [2025.01]**
- This group covers processes or apparatus for the preservation of foods or foodstuffs, in general, i.e. where the nature of the product is not relevant or not specified.*
- 2/05 • by heating using irradiation or electric treatment (drying or kilning A23B 2/90) [2025.01]
- 2/08 • • using microwaves or dielectric heating [2025.01]
- 2/10 • by treatment with pressure variation, shock, acceleration or shear stress [2025.01]
- 2/20 • by heating materials in packages which are progressively transported, continuously or stepwise, through the apparatus [2025.01]
- 2/22 • • with packages on endless chain or band conveyors [2025.01]

- 2/25 • • with packages transported along a helical path [2025.01]
- 2/28 • • with packages on a revolving platform [2025.01]
- 2/30 • by heating materials in packages which are not progressively transported through the apparatus [2025.01]
- 2/33 • • with packages in intercommunicating chambers through which the heating medium is circulated [2025.01]
- 2/37 • • with packages moving on the spot [2025.01]
- 2/40 • by heating loose unpacked materials [2025.01]
- 2/42 • • while they are progressively transported through the apparatus [2025.01]
- 2/44 • • • with transport along plates [2025.01]
- 2/46 • • • with transport through tubes [2025.01]
- 2/48 • • with the materials in spray form [2025.01]
- 2/50 • by irradiation without heating [2025.01]
- 2/53 • • with ultraviolet light [2025.01]

- 2/57 • • by treatment with ultrasonic waves [2025.01]
- 2/60 • by treatment with electric currents without heating effect [2025.01]
- 2/70 • by treatment with chemicals [2025.01]
- 2/704 • • in the form of gases, e.g. fumigation; Compositions or apparatus therefor [2025.01]
- 2/708 • • • in a controlled atmosphere, e.g. partial vacuum, comprising only CO₂, N₂, O₂ or H₂O [2025.01]
- 2/712 • • • • in which an absorbent is placed or used (packages for foodstuffs with provision for absorbing fluids B65D 81/26) [2025.01]
- 2/717 • • • • Oxygen absorbent [2025.01]
- 2/721 • • • in a controlled atmosphere comprising other gases in addition to CO₂, N₂, O₂ or H₂O [2025.01]
- 2/725 • • in the form of liquids or solids [2025.01]
- 2/729 • • • Organic compounds; Microorganisms; Enzymes [2025.01]

Note(s) [2025.01]

In groups A23B 2/733-A23B 2/779, 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

- 2/733 • • • • Compounds of undetermined constitution obtained from animals or plants [2025.01]
- 2/742 • • • • Organic compounds containing oxygen [2025.01]
- 2/746 • • • • • with singly-bound oxygen [2025.01]
- 2/75 • • • • • with doubly-bound oxygen [2025.01]
- 2/754 • • • • • containing carboxyl groups [2025.01]
- 2/758 • • • • • Carboxylic acid esters [2025.01]
- 2/762 • • • • Organic compounds containing nitrogen [2025.01]
- 2/767 • • • • Organic compounds containing sulfur [2025.01]
- 2/771 • • • • Organic compounds containing hetero rings [2025.01]
- 2/775 • • • • Organic compounds containing phosphorus [2025.01]
- 2/779 • • • • Sugars; Derivatives thereof [2025.01]
- 2/783 • • • • Microorganisms; Enzymes [2025.01]
- 2/788 • • • Inorganic compounds [2025.01]
- 2/792 • • • Apparatus for preserving using liquids [2025.01]
- 2/796 • • • Apparatus for preserving using solids [2025.01]
- 2/80 • Freezing; Subsequent thawing; Cooling [2025.01]
- 2/82 • • Thawing subsequent to freezing [2025.01]
- 2/85 • • with addition of chemicals [2025.01]
- 2/88 • • • with direct contact between the food and the chemical, e.g. liquid N₂ at cryogenic temperature [2025.01]
- 2/90 • by drying or kilning; Subsequent reconstitution [2025.01]
- 2/91 • • with addition of chemicals before or during drying [2025.01]
- 2/92 • • Freeze drying [2025.01]
- 2/93 • • Spray drying [2025.01]
- 2/94 • • Thin-layer drying, drum drying or roller drying [2025.01]
- 2/95 • • Fluidised-bed drying [2025.01]
- 2/96 • • Foam drying [2025.01]
- 2/97 • • using irradiation or electric treatment, e.g. ultrasonic waves [2025.01]

Preservation of specific foods, foodstuffs or non-alcoholic beverages; Chemical ripening of fruit or vegetables [2025.01]

- 4/00 Preservation of meat, sausages, fish or fish products [2, 2006.01]**
- 4/005 • Preserving by heating [5, 2006.01]
- 4/01 • • by irradiation or electric treatment [5, 2006.01]
- 4/015 • Preserving by irradiation or electric treatment without heating effect [5, 2006.01]
- 4/02 • Preserving by means of inorganic salts (apparatus therefor A23B 4/26, A23B 4/32) [2, 2006.01]
- 4/023 • • by kitchen salt or mixtures thereof with inorganic or organic compounds [5, 2006.01]
- 4/027 • • by inorganic salts other than kitchen salt or mixtures thereof with organic compounds, e.g. biochemical compounds [5, 2006.01]
- 4/03 • Drying; Subsequent reconstitution [5, 2006.01]
- 4/033 • • with addition of chemicals (A23B 4/037 takes precedence) [5, 2006.01]
- 4/037 • • Freeze-drying [5, 2006.01]
- 4/044 • Smoking; Smoking devices [5, 2006.01]
- 4/048 • • with addition of chemicals other than natural smoke [5, 2006.01]
- 4/052 • • Smoke generators [5, 2006.01]
- 4/056 • • Smoking combined with irradiation or electric treatment, e.g. electrostatic smoking [5, 2006.01]
- 4/06 • Freezing; Subsequent thawing; Cooling [2, 2006.01]
- 4/07 • • Thawing subsequent to freezing [5, 2006.01]
- 4/08 • • with addition of chemicals before or during cooling [2, 2006.01]
- 4/09 • • • with direct contact between the food and the chemical, e.g. liquid N₂, at cryogenic temperature [5, 2006.01]
- 4/10 • Coating with a protective layer; Compositions or apparatus therefor [2, 2006.01]
- 4/12 • Preserving with acids; Acid fermentation [2, 2006.01]
- 4/14 • Preserving with chemicals not covered by groups A23B 4/02 or A23B 4/12 [2, 2006.01]
- 4/16 • • in the form of gases, e.g. fumigation; Compositions or apparatus therefor [5, 2006.01]
- 4/18 • • in the form of liquids or solids (apparatus therefor A23B 4/26, A23B 4/32) [5, 2006.01]
- 4/20 • • • Organic compounds; Microorganisms; Enzymes [5, 2006.01]
- 4/22 • • • • Microorganisms; Enzymes [5, 2006.01]
- 4/24 • • • Inorganic compounds [5, 2006.01]
- 4/26 • Apparatus for preserving using liquids [5, 2006.01]
- 4/28 • • by injection of liquids [5, 2006.01]
- 4/30 • • by spraying of liquids [5, 2006.01]
- 4/32 • Apparatus for preserving using solids [5, 2006.01]
- 5/00 Preservation of eggs or egg products [1, 2006.01]**
- 5/005 • Preserving by heating [5, 2006.01]
- 5/01 • • by irradiation or electric treatment [5, 2006.01]
- 5/015 • Preserving by irradiation or electric treatment without heating effect [5, 2006.01]
- 5/02 • Drying; Subsequent reconstitution [1, 5, 2006.01]
- 5/025 • • with addition of chemicals (A23B 5/03, A23B 5/035 take precedence) [5, 2006.01]
- 5/03 • • Freeze-drying [5, 2006.01]
- 5/035 • • Spray-drying [5, 2006.01]
- 5/04 • Freezing; Subsequent thawing; Cooling [1, 2006.01]
- 5/045 • • Thawing subsequent to freezing [5, 2006.01]
- 5/05 • • with addition of chemicals [5, 2006.01]

- 5/055 • • • with direct contact between the food and the chemical, e.g. liquid N₂, at cryogenic temperature [5, 2006.01]
- 5/06 • Coating eggs with a protective layer; Compositions or apparatus therefor [1, 5, 2006.01]
- 5/08 • Preserving with chemicals [5, 2006.01]
- 5/10 • • in the form of gases, e.g. fumigation; Compositions or apparatus therefor [5, 2006.01]
- 5/12 • • in the form of liquids or solids [5, 2006.01]
- 5/14 • • • Organic compounds; Microorganisms; Enzymes [5, 2006.01]
- 5/16 • • • Microorganisms; Enzymes [5, 2006.01]
- 5/18 • • • Inorganic compounds [5, 2006.01]
- 5/20 • • • Apparatus for preserving using liquids [5, 2006.01]
- 5/22 • • • Apparatus for preserving using solids [5, 2006.01]
- 7/00 Preservation of fruit or vegetables; Chemical ripening of fruit or vegetables [1, 3, 2006.01]**
- 7/005 • Preserving by heating [5, 2006.01]
- 7/01 • • by irradiation or electric treatment [5, 2006.01]
- 7/015 • Preserving by irradiation or electric treatment without heating effect [5, 2006.01]
- 7/02 • Dehydrating; Subsequent reconstitution (dried cooked potatoes A23L 19/12) [1, 2006.01]
- 7/022 • • with addition of chemicals (A23B 7/024-A23B 7/028 take precedence) [5, 2006.01]
- 7/024 • • Freeze-drying [5, 2006.01]
- 7/026 • • Spray-drying [5, 2006.01]
- 7/028 • • Thin layer-, drum- or roller-drying [5, 2006.01]
- 7/03 • • Drying raw potatoes [1, 2006.01]
- 7/04 • Freezing; Subsequent thawing; Cooling [1, 2006.01]
- 7/045 • • Thawing subsequent to freezing [5, 2006.01]
- 7/05 • • with addition of chemicals [5, 2006.01]
- 7/055 • • • with direct contact between the food and the chemical, e.g. liquid N₂, at cryogenic temperature [5, 2006.01]
- 7/06 • Blanching (machines therefor A23N 12/00) [1, 3, 2006.01]
- 7/08 • Preserving with sugars (marmalade, jam or fruit jellies A23L 21/10) [1, 2006.01]
- 7/10 • Preserving with acids; Acid fermentation [1, 2006.01]
- 7/12 • • Apparatus for compressing sauerkraut [1, 2006.01]
- 7/14 • Preserving or ripening with chemicals not covered by group A23B 7/08 or A23B 7/10 [1, 2006.01]
- 7/144 • • in the form of gases, e.g. fumigation; Compositions or apparatus therefor [3, 5, 2006.01]
- 7/148 • • • in a controlled atmosphere, e.g. partial vacuum, comprising only CO₂, N₂, O₂ or H₂O [3, 2006.01]
- 7/152 • • • in a controlled atmosphere comprising other gases in addition to CO₂, N₂, O₂ or H₂O [3, 2006.01]
- 7/153 • • in the form of liquids or solids [5, 2006.01]
- 7/154 • • • Organic compounds; Microorganisms; Enzymes [5, 2006.01]
- 7/155 • • • • Microorganisms; Enzymes [5, 2006.01]
- 7/157 • • • Inorganic compounds [5, 2006.01]
- 7/158 • • • Apparatus for preserving using liquids [5, 2006.01]
- 7/159 • • • Apparatus for preserving using solids [5, 2006.01]
- 7/16 • Coating with a protective layer; Compositions or apparatus therefor (A23B 7/08 takes precedence) [1, 5, 2006.01]
- 9/00 Preservation of edible seeds, e.g. cereals (preservation of pulses A23B 75/00) [1, 2006.01, 2025.01]**
- 9/02 • Preserving by heating [5, 2006.01]
- 9/04 • • by irradiation or electric treatment [5, 2006.01]
- 9/06 • Preserving by irradiation or electric treatment without heating effect [5, 2006.01]
- 9/08 • Drying; Subsequent reconstitution [5, 2006.01]
- 9/10 • Freezing; Subsequent thawing; Cooling [5, 2006.01]
- 9/12 • • Thawing subsequent to freezing [5, 2006.01]
- 9/14 • Coating with a protective layer; Compositions or apparatus therefor [5, 2006.01]
- 9/16 • Preserving with chemicals [5, 2006.01]
- 9/18 • • in the form of gases, e.g. fumigation; Compositions or apparatus therefor [5, 2006.01]
- 9/20 • • • in a controlled atmosphere, e.g. partial vacuum, comprising only CO₂, N₂, O₂ or H₂O [5, 2006.01]
- 9/22 • • • in a controlled atmosphere comprising other gases in addition to CO₂, N₂, O₂ or H₂O [5, 2006.01]
- 9/24 • • in the form of liquids or solids [5, 2006.01]
- 9/26 • • • Organic compounds; Microorganisms; Enzymes [5, 2006.01]
- 9/28 • • • • Microorganisms; Enzymes [5, 2006.01]
- 9/30 • • • Inorganic compounds [5, 2006.01]
- 9/32 • • • Apparatus for preserving using liquids [5, 2006.01]
- 9/34 • • • Apparatus for preserving using solids [5, 2006.01]
- 11/00 Preservation of milk or dairy products [2025.01]**
- 11/10 • Preservation of milk or milk preparations [2025.01]
- 11/12 • • by heating (by irradiation, e.g. by microwaves A23B 11/16) [2025.01]
- 11/123 • • • in packages [2025.01]
- 11/127 • • • • progressively transported through the apparatus [2025.01]
- 11/13 • • • the materials being loose unpacked [2025.01]
- 11/133 • • • • and progressively transported through the apparatus [2025.01]
- 11/137 • • • • in direct contact with the heating medium, e.g. steam [2025.01]
- 11/14 • • by freezing or cooling [2025.01]
- 11/145 • • • in packages [2025.01]
- 11/16 • • by irradiation, e.g. by microwaves [2025.01]
- 11/18 • • by addition of preservatives (addition of microorganisms or enzymes A23C 9/12; addition of other substances A23C 9/152) [2025.01]
- 11/20 • Preservation of milk substitutes [2025.01]
- 11/22 • • containing non-milk components as source of fats or proteins (preservation of whey or whey preparations containing non-milk components as source of fats or proteins A23B 11/84) [2025.01]
- 11/23 • • • containing non-milk fats but no non-milk proteins (A23B 11/27, A23B 11/29 take precedence) [2025.01]
- 11/25 • • • containing non-milk proteins (A23B 11/27, A23B 11/29 take precedence) [2025.01]
- 11/27 • • • containing caseinates but no other milk proteins or milk fats [2025.01]
- 11/29 • • • containing or not lactose but no other milk components as source of fats, carbohydrates or proteins [2025.01]
- 11/30 • Preservation of cream or cream preparations [2025.01]

A23B

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| <p>11/35 • • by addition of preservatives (containing or treated with microorganisms, enzymes or antibiotics A23C 13/16) [2025.01]</p> <p>11/40 • Preservation of butter or butter preparations [2025.01]</p> <p>11/45 • • by addition of preservatives [2025.01]</p> <p>11/50 • Preservation of buttermilk or buttermilk preparations [2025.01]</p> <p>11/55 • • containing, or treated with, microorganisms or enzymes [2025.01]</p> <p>11/60 • Preservation of cheese or cheese preparations [2025.01]</p> <p>11/65 • • by addition of preservatives [2025.01]</p> <p>11/67 • • • of antibiotics [2025.01]</p> <p>11/70 • Preservation of cheese substitutes [2025.01]</p> <p>11/75 • • containing neither milk components, nor caseinate, nor lactose, as sources of fats, proteins or carbohydrates [2025.01]</p> <p>11/80 • Preservation of whey or whey preparations (preservation of milk or milk preparations A23B 11/10) [2025.01]</p> <p>11/82 • • containing, or treated with, microorganisms or enzymes [2025.01]</p> <p>11/84 • • containing non-milk components as source of fats or proteins [2025.01]</p> <p>11/86 • • Mixtures of whey with milk products or milk components [2025.01]</p> <p>11/87 • • containing other organic additives, e.g. vegetable or animal products [2025.01]</p> <p>11/88 • • containing inorganic additives [2025.01]</p> <p>20/00 Preservation of edible oils or fats [2025.01]</p> <p>20/10 • Preservation of edible oil or fat compositions containing an aqueous phase, e.g. margarines [2025.01]</p> <p>20/30 • Preservation of other edible oils or fats, e.g. shortenings or cooking oils [2025.01]</p> <p>40/00 Preservation of flour or dough before baking [2025.01]</p> <p>40/10 • by cooling [2025.01]</p> | <p>40/30 • by heating [2025.01]</p> <p>40/50 • by irradiation [2025.01]</p> <p>40/60 • by storage in an inert atmosphere [2025.01]</p> <p>45/00 Preservation of finished bakery products [2025.01]</p> <p>45/10 • by cooling [2025.01]</p> <p>45/30 • by heating [2025.01]</p> <p>45/50 • by irradiation [2025.01]</p> <p>45/70 • by coating [2025.01]</p> <p>70/00 Preservation of non-alcoholic beverages (preservation of beverages from legumes A23B 75/10; preservation of beverages containing tea, tea substitutes or herbal tea A23B 85/10; preservation of beverages containing coffee or coffee substitutes A23B 90/10) [2025.01]</p> <p>70/10 • by addition of preservatives [2025.01]</p> <p>70/20 • by cooling [2025.01]</p> <p>70/30 • by heating [2025.01]</p> <p>70/35 • • by irradiation or electric treatment [2025.01]</p> <p>70/50 • by irradiation or electric treatment, without heating [2025.01]</p> <p>75/00 Preservation of pulses; Preservation of products from legumes [2025.01]</p> <p>75/10 • Preservation of beverages from legumes, e.g. soy drinks [2025.01]</p> <p>80/00 Preservation of cocoa or cocoa products [2025.01]</p> <p>85/00 Preservation of tea, tea substitutes or herbal tea [2025.01]</p> <p>85/10 • Preservation of beverages containing tea, tea substitutes or herbal tea [2025.01]</p> <p>90/00 Preservation of coffee or coffee substitutes [2025.01]</p> <p>90/10 • Preservation of beverages containing coffee or coffee substitutes [2025.01]</p> <hr/> <p>99/00 Subject matter not provided for in other groups of this subclass [2025.01]</p> |
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A23C DAIRY PRODUCTS, e.g. MILK, BUTTER OR CHEESE; MILK OR CHEESE SUBSTITUTES; MAKING OR TREATMENT THEREOF (preservation thereof A23B 11/00)

Note(s) [3]

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 or sterilisation, unless such apparatus is specifically provided for in another subclass, e.g. in subclass A01J for treatment of milk or cream for manufacture of butter or cheese.

Subclass index

DAIRY TECHNOLOGY.....	1/00-7/00
MILK PREPARATIONS; MILK SUBSTITUTES; CREAM; BUTTER.....	9/00, 11/00, 13/00, 15/00
CHEESE; CHEESE SUBSTITUTES.....	19/00, 20/00
BUTTERMILK; WHEY; OTHER DAIRY PRODUCTS.....	17/00, 21/00, 23/00

General dairy technology

1/00 Concentration, evaporation or drying (products obtained thereby A23C 9/00) [1, 3, 2006.01]

- 1/01 • Drying in thin layers [3, 2006.01]
- 1/03 • • on drums or rollers [3, 2006.01]
- 1/04 • by spraying into a gas stream [1, 2006.01]

- 1/05 • • combined with agglomeration [3, 2006.01]
- 1/06 • Concentration by freezing out the water [1, 2006.01]
- 1/08 • • Freeze drying [3, 2006.01]
- 1/10 • Foam drying (A23C 1/04, A23C 1/08 take precedence) [3, 2006.01]
- 1/12 • Concentration by evaporation [3, 2006.01]
- 1/14 • combined with other treatment [3, 2006.01]
- 1/16 • • using additives [3, 2006.01]

- 7/00 **Other dairy technology** (preservation of milk or dairy products A23B 11/00) [1, 2006.01, 2025.01]
- 7/02 • Chemical cleaning of dairy apparatus; Use of sterilisation methods therefor [3, 2006.01]
- 7/04 • Removing unwanted substances from milk [3, 2006.01]

- 11/02 • containing at least one non-milk component as source of fats or proteins (addition of non-milk fats or non-milk proteins in making cheese curd A23C 19/055; whey or whey preparations containing non-milk components as source of fats or proteins A23C 21/04) [3, 2006.01, 2025.01]
- 11/04 • • containing non-milk fats but no non-milk proteins (A23C 11/08, A23C 11/10 take precedence) [3, 2006.01, 2025.01]
- 11/06 • • containing non-milk proteins (A23C 11/08, A23C 11/10 take precedence) [3, 2006.01, 2025.01]
- 11/08 • • containing caseinates but no other milk proteins nor milk fats [3, 2006.01, 2025.01]
- 11/10 • • containing or not lactose but no other milk components as source of fats, carbohydrates or proteins [3, 2006.01, 2021.01, 2025.01]

Dairy products; Processes specially adapted therefor

- 9/00 **Milk preparations; Milk powder or milk powder preparations** (mixtures of whey with milk products or milk components A23C 21/06; preservation of milk or milk preparations A23B 11/10) [1, 3, 2006.01]
- 9/12 • Fermented milk preparations; Treatment using microorganisms or enzymes [1, 3, 2006.01]
- 9/123 • • using only microorganisms of the genus lactobacteriaceae; Yoghurt (A23C 9/13 takes precedence) [3, 2006.01]
- 9/127 • • using microorganisms of the genus lactobacteriaceae and other microorganisms or enzymes, e.g. kefir, koumiss (A23C 9/13 takes precedence) [3, 2006.01]
- 9/13 • • using additives [3, 2006.01]
- 9/133 • • • Fruit or vegetables [3, 2006.01]
- 9/137 • • • Thickening substances [3, 2006.01]
- 9/14 • in which the chemical composition of the milk is modified by non-chemical treatment [1, 3, 2006.01]
- 9/142 • • by dialysis, reverse osmosis or ultrafiltration (A23C 9/144 takes precedence) [3, 2006.01]
- 9/144 • • by electrical means, e.g. electrodialysis [3, 2006.01]
- 9/146 • • by ion-exchange [3, 2006.01]
- 9/148 • • by molecular sieve or gel filtration [3, 2006.01]
- 9/15 • Reconstituted or recombined milk products containing neither non-milk fat nor non-milk proteins [3, 2006.01]
- 9/152 • containing additives (fermented milk preparations containing additives A23C 9/13) [3, 2006.01]
- 9/154 • • containing thickening substances, eggs or cereal preparations; Milk gels [3, 2006.01]
- 9/156 • • Flavoured milk preparations [3, 2006.01]
- 9/158 • • containing vitamins or antibiotics [3, 2006.01]
- 9/16 • Agglomerating or granulating milk powder; Making instant milk powder; Products obtained thereby (A23C 9/18 takes precedence) [1, 3, 2006.01]
- 9/18 • Milk in dried and compressed or semi-solid form [3, 2006.01]
- 9/20 • Dietetic milk products not covered by groups A23C 9/12-A23C 9/18 [3, 2006.01]

- 11/00 **Milk substitutes, e.g. coffee whitener compositions** (cheese substitutes A23C 20/00; preservation of milk substitutes A23B 11/20; butter substitutes A23D) [1, 2006.01, 2025.01]
- 13/00 **Cream; Cream preparations** (preservation of cream or cream preparations A23B 11/30; ice-cream A23G 9/00); **Making thereof** [1, 2006.01]
- 13/12 • Cream preparations [1, 2006.01]
- 13/14 • • containing milk products or milk components [3, 2006.01]
- 13/16 • • containing, or treated with, microorganisms, enzymes, or antibiotics; Sour cream [3, 2006.01]

- 15/00 **Butter; Butter preparations; Making thereof** (preservation of butter or butter preparations A23B 11/40; butter substitutes A23D) [1, 2006.01]
- 15/02 • Making thereof [1, 2006.01]
- 15/04 • • from butter oil or anhydrous butter [3, 2006.01]
- 15/06 • • Treating cream prior to phase inversion [3, 2006.01]
- 15/12 • Butter preparations [1, 2006.01]
- 15/14 • • Butter powder; Butter oil, i.e. melted butter, e.g. ghee [1, 3, 2006.01]
- 15/16 • • Butter having reduced fat content [3, 2006.01]

- 17/00 **Buttermilk; Buttermilk preparations** (milk preparations, milk powder or milk powder preparations in which the chemical composition of the milk is modified by non-chemical treatment A23C 9/14; preservation of buttermilk or buttermilk preparations A23B 11/50) [1, 3, 2006.01, 2025.01]
- 17/02 • containing, or treated with, microorganisms or enzymes [3, 2006.01, 2025.01]

- 19/00 **Cheese; Cheese preparations; Making thereof** (cheese substitutes A23C 20/00; preservation of cheese or cheese preparations A23B 11/60) [1, 2006.01]
- 19/02 • Making cheese curd [1, 3, 2006.01]
- 19/024 • • using continuous procedure [3, 2006.01]
- 19/028 • • without substantial whey separation from coagulated milk [3, 2006.01]
- 19/032 • • characterised by the use of specific microorganisms, or enzymes of microbial origin [3, 2006.01]
- 19/04 • • characterised by the use of specific enzymes of vegetable or animal origin (A23C 19/032 takes precedence) [3, 2006.01]
- 19/045 • • Coagulation of milk without rennet or rennet substitutes [3, 2006.01]
- 19/05 • • Treating milk before coagulation; Separating whey from curd [3, 2006.01]
- 19/055 • • Addition of non-milk fats or non-milk proteins [3, 2006.01]

A23C

- 19/06 • Treating cheese curd after whey separation; Products obtained thereby [3, 2006.01]
- 19/064 • • Salting [3, 2006.01]
- 19/068 • • Particular types of cheese [3, 2006.01]
- 19/072 • • • Cheddar type [3, 2006.01]
- 19/076 • • • Soft unripened cheese, e.g. cottage or cream cheese [3, 2006.01]
- 19/08 • • • Process cheese preparations; Making thereof, e.g. melting, emulsifying, sterilizing [3, 2006.01]
- 19/082 • • • • Adding substances to the curd before or during melting; Melting salts [3, 2006.01]
- 19/084 • • • • Treating the curd, or adding substances thereto, after melting (adding non-milk components A23C 19/093) [3, 2006.01]
- 19/086 • • Cheese powder; Dried cheese preparations [3, 2006.01]
- 19/09 • • Other cheese preparations; Mixtures of cheese with other foodstuffs [3, 2006.01]
- 19/093 • • • Addition of non-milk fats or non-milk proteins [3, 2006.01]
- 19/14 • Treating cheese after having reached its definite form, e.g. ripening, smoking [1, 2006.01]
- 19/16 • • Covering the cheese surface, e.g. with paraffin wax [1, 2006.01]
- 20/00 **Cheese substitutes** (A23C 19/055, A23C 19/093 take precedence; preservation of cheese substitutes A23B 11/70) [3, 2006.01, 2025.01]
- 20/02 • containing neither milk components, nor caseinate, nor lactose, as sources of fats, proteins or carbohydrates [3, 2006.01, 2021.01, 2025.01]
- 21/00 **Whey; Whey preparations** (concentration, evaporation or drying A23C 1/00; milk preparations, milk powder or milk powder preparations in which the chemical composition of the milk is modified by non-chemical treatment A23C 9/14; preservation of whey or whey preparations A23B 11/80) [1, 3, 2006.01, 2025.01]
- 21/02 • containing, or treated with, microorganisms or enzymes [3, 2006.01, 2025.01]
- 21/04 • containing non-milk components as source of fats or proteins [3, 2006.01, 2025.01]
- 21/06 • Mixtures of whey with milk products or milk components [3, 2006.01, 2025.01]
- 21/08 • containing other organic additives, e.g. vegetable or animal products [3, 2006.01, 2025.01]
- 21/10 • containing inorganic additives [3, 2006.01, 2025.01]
- 23/00 **Other dairy products** [1, 2006.01]

A23D EDIBLE OILS OR FATS, e.g. MARGARINES, SHORTENINGS OR COOKING OILS (preservation thereof A23B 20/00; production, refinement or preservation of animal or vegetable fats or oils C11B, C11C)

- 7/00 **Edible oil or fat compositions containing an aqueous phase, e.g. margarines** (preservation of edible oil compositions containing aqueous phase A23B 20/10) [5, 2006.01]
- 7/005 • characterised by ingredients other than fatty acid triglycerides [6, 2006.01]
- 7/01 • • Other fatty acid esters, e.g. phosphatides [6, 2006.01]
- 7/015 • Reducing calorie content; Reducing fat content [6, 2006.01]
- 7/02 • characterised by the production or working-up [5, 2006.01]
- 7/04 • • Working-up [5, 2006.01]
- 7/05 • • • characterised by essential cooling [6, 2006.01]
- 9/00 **Other edible oils or fats, e.g. shortenings or cooking oils** (preservation of other edible oils A23B 20/30) [5, 2006.01]
- 9/007 • characterised by ingredients other than fatty acid triglycerides [6, 2006.01]
- 9/013 • • Other fatty acid esters, e.g. phosphatides [6, 2006.01]
- 9/02 • characterised by the production or working-up [5, 2006.01]
- 9/04 • • Working-up [5, 2006.01]
- 9/05 • • • Forming free-flowing pieces [6, 2006.01]

A23F COFFEE; TEA; THEIR SUBSTITUTES; MANUFACTURE, PREPARATION, OR INFUSION THEREOF

- 3/00 **Tea; Tea substitutes; Preparations thereof** (preservation of tea, tea substitutes or herbal tea A23B 85/00) [1, 2006.01, 2025.01]
- 3/06 • Treating tea before extraction (reducing or removing alkaloid content A23F 3/36); Preparations produced thereby (tea extract preparations A23F 3/16) [3, 2006.01]
- 3/08 • • Oxidation; Fermentation [3, 2006.01]
- 3/10 • • • Fermentation with addition of microorganisms or enzymes [3, 2006.01]
- 3/12 • • Rolling or shredding tea leaves [3, 2006.01]
- 3/14 • • Tea preparations, e.g. using additives (flavouring A23F 3/40) [3, 2006.01]
- 3/16 • Tea extraction; Tea extracts; Treating tea extract; Making instant tea [3, 2006.01]
- 3/18 • • Extraction of water soluble tea constituents (isolation of tea flavour or tea oil A23F 3/42) [3, 2006.01]
- 3/20 • • Removing unwanted substances (reducing or removing alkaloid content A23F 3/38) [3, 2006.01]
- 3/22 • • Drying or concentrating tea extract [3, 2006.01]
- 3/24 • • • by freezing out the water [3, 2006.01]
- 3/26 • • • by lyophilisation [3, 2006.01]
- 3/28 • • • by spraying into a gas stream [3, 2006.01]
- 3/30 • • Further treatment of dried tea extract; Preparations produced thereby, e.g. instant tea (flavouring A23F 3/40) [3, 2006.01]
- 3/32 • • • Agglomerating, flaking or tableting [3, 2006.01]
- 3/34 • Tea substitutes, e.g. mate; Extracts or infusions thereof [3, 2006.01]
- 3/36 • Reducing or removing alkaloid content; Preparations produced thereby; Extracts or infusions thereof [3, 2006.01]

- 3/38 • • Reducing or removing alkaloid content from tea extract [3, 2006.01]
- 3/40 • Tea flavour; Tea oil; Flavouring of tea or tea extract (synthetic tea flavours A23L 27/20) [3, 2006.01]
- 3/42 • • Isolation of tea flavour or tea oil [3, 2006.01]
- 5/00 Coffee; Coffee substitutes; Preparations thereof (preservation of coffee or coffee substitutes A23B 90/00) [3, 2006.01, 2025.01]**
- 5/02 • Treating green coffee; Preparations produced thereby (roasting A23F 5/04; removing unwanted substances A23F 5/16; reducing or removing alkaloid content A23F 5/20; extraction A23F 5/24) [3, 2006.01]
- 5/04 • Methods of roasting coffee (machines therefor A23N 12/00) [3, 2006.01]
- 5/06 • • of roasting extracted coffee [3, 2006.01]
- 5/08 • Methods of grinding coffee (coffee mills A47J 42/00) [3, 2006.01]
- 5/10 • Treating roasted coffee; Preparations produced thereby (removing unwanted substances A23F 5/16; reducing or removing alkaloid content A23F 5/20; coffee extraction, making instant coffee A23F 5/24) [3, 2006.01]
- 5/12 • • Agglomerating, flaking or tableting (of coffee extract or instant coffee A23F 5/38) [3, 2006.01]
- 5/14 • • using additives, e.g. milk or sugar; Coating (flavouring A23F 5/46) [3, 2006.01, 2025.01]
- 5/16 • Removing unwanted substances (reducing or removing alkaloid content A23F 5/20) [3, 2006.01]
- 5/18 • • from coffee extract [3, 2006.01]
- 5/20 • Reducing or removing alkaloid content; Preparations produced thereby; Extracts or infusions thereof [3, 2006.01]
- 5/22 • • Reducing or removing alkaloid content from coffee extract [3, 2006.01]
- 5/24 • Extraction of coffee (isolation of coffee flavour or coffee oil A23F 5/48); Coffee extracts (with reduced alkaloid content A23F 5/20); Making instant coffee (methods of roasting extracted coffee A23F 5/06) [3, 2006.01]
- 5/26 • • Extraction of water soluble constituents [3, 2006.01]
- 5/28 • • Drying or concentrating coffee extract [3, 2006.01]
- 5/30 • • • by freezing out the water [3, 2006.01]
- 5/32 • • • by lyophilisation [3, 2006.01]
- 5/34 • • • by spraying into a gas stream [3, 2006.01]
- 5/36 • • Further treatment of dried coffee extract; Preparations produced thereby, e.g. instant coffee (removing unwanted substances A23F 5/18; flavouring A23F 5/46) [3, 2006.01]
- 5/38 • • • Agglomerating, flaking or tableting [3, 2006.01]
- 5/40 • • • using organic additives, e.g. milk, sugar [3, 2006.01]
- 5/42 • • • using inorganic additives [3, 2006.01]
- 5/44 • Coffee substitutes [3, 2006.01]
- 5/46 • Coffee flavour; Coffee oil; Flavouring of coffee or coffee extract (synthetic coffee flavours A23L 27/28) [3, 2006.01]
- 5/48 • • Isolation of coffee flavour or coffee oil [3, 2006.01]
- 5/50 • • • from coffee extract [3, 2006.01]

A23G COCOA; COCOA PRODUCTS, e.g. CHOCOLATE; SUBSTITUTES FOR COCOA OR COCOA PRODUCTS; CONFECTIONERY; CHEWING GUM; ICE-CREAM; PREPARATION THEREOF [1, 2006.01]

Note(s) [2, 2006.01]

- In this subclass, the following term is used with the meaning indicated:
 - "ice-cream" includes any edible frozen or congealed semi-liquid or pasty substance, e.g. slush-ice.
- In this subclass, subject matter which cannot be completely classified in a single one of the main groups should be classified in each relevant main group.

- 1/00 Cocoa; Cocoa products, e.g. chocolate; Substitutes therefor (preservation thereof A23B 80/00) [1, 2006.01, 2025.01]**
- 1/02 • Preliminary treatment, e.g. fermentation of cocoa [1, 2006.01]
- 1/04 • Apparatus specially adapted for manufacture or treatment of cocoa or cocoa products (machines for roasting cocoa A23N 12/00) [1, 3, 2006.01]
- 1/06 • • Apparatus for preparing or treating cocoa beans or nibs [1, 2006.01]
- 1/08 • • Cocoa butter presses [1, 2006.01]
- 1/10 • • Mixing apparatus; Roller mills for preparing chocolate [1, 2006.01]
- 1/12 • • Chocolate-refining mills, i.e. roll refiners [1, 2006.01]
- 1/14 • • Longitudinal conches [1, 2006.01]
- 1/16 • • Circular conches [1, 2006.01]
- 1/18 • • Apparatus for conditioning chocolate masses for moulding [1, 2006.01]
- 1/20 • • Apparatus for moulding, cutting, or dispensing chocolate [1, 2006.01]
- 1/21 • • • Apparatus for moulding hollow products, open shells or other articles having cavities, e.g. open cavities [3, 7, 2006.01]
- 1/22 • • • Chocolate moulds (A23G 1/21 takes precedence) [1, 3, 2006.01]
- 1/24 • • • Tapping or jolting tables [1, 7, 2006.01]
- 1/26 • • • Conveying devices for chocolate moulds [1, 7, 2006.01]
- 1/28 • • • Apparatus for removing chocolate from the moulds [1, 7, 2006.01]
- 1/30 • Cocoa products, e.g. chocolate; Substitutes therefor [2006.01]
- 1/32 • • characterised by the composition [2006.01]
- 1/34 • • • Cocoa substitutes [2006.01]
- 1/36 • • • characterised by the fats used (containing dairy products A23G 1/46) [2006.01]
- 1/38 • • • Cocoa butter substitutes [2006.01]
- 1/40 • • • characterised by the carbohydrates used, e.g. polysaccharides (containing dairy products A23G 1/46) [2006.01]

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- 1/42 • • • containing microorganisms or enzymes; containing paramedical or dietetical agents, e.g. vitamins (containing dairy products A23G 1/46) [2006.01]
- 1/44 • • • containing peptides or proteins (containing dairy products A23G 1/46) [2006.01]
- 1/46 • • • containing dairy products [2006.01]
- 1/48 • • • containing plants or parts thereof, e.g. fruits, seeds, extracts (containing gums A23G 1/40) [2006.01]
- 1/50 • • characterised by shape, structure or physical form, e.g. products with an inedible support (liquid products, solid products in the form of powders, flakes or granules for making liquid products A23G 1/56) [2006.01]
- 1/52 • • • Aerated, foamed, cellular or porous products [2006.01]
- 1/54 • • • Composite products, e.g. layered, coated, filled [2006.01]
- 1/56 • • Liquid products; Solid products in the form of powders, flakes or granules for making liquid products, e.g. for making chocolate milk [2006.01]
- 3/00 Sweetmeats; Confectionery; Marzipan; Coated or filled products** (chewing gum A23G 4/00) [1, 2006.01]
- 3/02 • Apparatus specially adapted for manufacture or treatment of sweetmeats or confectionery; Accessories therefor [1, 2006.01]
- 3/04 • • Sugar-cookers [1, 2006.01]
- 3/06 • • Batch-rolling, rope-forming, or sizing machines [1, 2006.01]
- 3/08 • • Candy batch cooling tables [1, 2006.01]
- 3/10 • • Candy-pulling machines [1, 2006.01]
- 3/12 • • Apparatus for moulding candy in the plastic state [1, 2006.01]
- 3/14 • • Fondant beating or creaming machines [1, 2006.01]
- 3/16 • • Apparatus for casting fondant in bulk [1, 2006.01]
- 3/18 • • Apparatus for moulding fondants [1, 2006.01]
- 3/20 • • Apparatus for coating or filling sweetmeats or confectionery [1, 2006.01]
- 3/22 • • • Apparatus for coating by casting [1, 2006.01]
- 3/24 • • • Apparatus for coating by dipping [1, 2006.01]
- 3/26 • • • Apparatus for coating by tumbling [1, 2006.01]
- 3/28 • • Apparatus for decorating sweetmeats or confectionery [1, 2006.01]
- 3/32 • Processes for preparing caramel or sugar colours [1, 2006.01]
- 3/34 • Sweetmeats, confectionery or marzipan; Processes for the preparation thereof [2006.01]
- 3/36 • • characterised by the composition [2006.01]
- 3/38 • • • Sucrose-free products [2006.01]
- 3/40 • • • characterised by the fats used (containing dairy products A23G 3/46) [2006.01]
- 3/42 • • • characterised by the carbohydrates used, e.g. polysaccharides (containing dairy products A23G 3/46) [2006.01]
- 3/44 • • • containing peptides or proteins (containing dairy products A23G 3/46) [2006.01]
- 3/46 • • • containing dairy products [2006.01]
- 3/48 • • • containing plants or parts thereof, e.g. fruits, seeds, extracts (containing gums A23G 3/42) [2006.01]
- 3/50 • • characterised by shape, structure or physical form, e.g. products with supported structure [2006.01]
- 3/52 • • • Aerated, foamed, cellular or porous products [2006.01]
- 3/54 • • • Composite products, e.g. layered, coated, filled [2006.01]
- 3/56 • • • Products with edible or inedible supports, e.g. lollipops [2006.01]
- 4/00 Chewing gum [2006.01]**
- 4/02 • Apparatus specially adapted for manufacture or treatment of chewing gum [2006.01]
- 4/04 • • for moulding or shaping [2006.01]
- 4/06 • characterised by the composition [2006.01]
- 4/08 • • of the chewing gum base [2006.01]
- 4/10 • • characterised by the carbohydrates used, e.g. polysaccharides (containing dairy products A23G 4/16) [2006.01]
- 4/12 • • containing microorganisms or enzymes; containing paramedical or dietetical agents, e.g. vitamins (containing dairy products A23G 4/16) [2006.01]
- 4/14 • • containing peptides or proteins (containing dairy products A23G 4/16) [2006.01]
- 4/16 • • containing dairy products [2006.01]
- 4/18 • characterised by shape, structure or physical form, e.g. aerated products [2006.01]
- 4/20 • • Composite products, e.g. centre-filled [2006.01]
- 7/00 Other apparatus specially adapted for the chocolate or confectionery industry [1, 2006.01]**
- 7/02 • Cooling or drying apparatus [1, 2006.01]
- 9/00 Frozen sweets, e.g. ice confectionery, ice-cream; Mixtures therefor [2, 2006.01]**
- 9/04 • Production of frozen sweets, e.g. ice-cream [2, 2006.01]
- 9/06 • • characterised by using carbon dioxide or carbon dioxide snow as cooling medium [2, 2006.01]
- Note(s) [2]**
- Group A23G 9/06 takes precedence over groups A23G 9/08-A23G 9/14.
- 9/08 • • Batch production [2, 2006.01]
- 9/10 • • • using containers which are rotated or otherwise moved in a cooling medium [2, 2006.01]
- 9/12 • • • using means for stirring the contents in a non-moving container [2, 2006.01]
- 9/14 • • Continuous production (A23G 9/20 takes precedence) [2, 2006.01]
- 9/16 • • • the products being within a cooled chamber, e.g. drum [2, 2006.01]
- 9/18 • • • the products being on the outer wall of a cooled body, e.g. drum or endless band [2, 2006.01]
- 9/20 • • the products being mixed with gas, e.g. soft-ice [2, 2006.01]
- 9/22 • • Details, component parts or accessories of apparatus insofar as not peculiar to a single one of the preceding groups [2, 2006.01]
- 9/24 • • • for coating or filling the products [2, 2006.01]
- 9/26 • • • for producing frozen sweets on sticks [2, 2006.01]
- 9/28 • • • for portioning or dispensing [2, 2006.01]
- 9/30 • • • Cleaning; Keeping clean; Sterilisation [2, 2006.01]
- 9/32 • characterised by the composition [2006.01]
- 9/34 • • characterised by carbohydrates used, e.g. polysaccharides (characterised by the dairy products used A23G 9/40) [2006.01]

- 9/36 • • containing microorganisms or enzymes; containing paramedical or dietetical agents, e.g. vitamins (characterised by the dairy products used A23G 9/40) [2006.01]
- 9/38 • • containing peptides or proteins (characterised by the dairy products used A23G 9/40) [2006.01]
- 9/40 • • characterised by the dairy products used [2006.01]
- 9/42 • • containing plants or parts thereof, e.g. fruits, seeds, extracts (containing gums A23G 9/34) [2006.01]
- 9/44 • characterised by shape, structure or physical form (liquid products, solid products in the form of powders, flakes or granules for making liquid products A23G 9/52) [2006.01]
- 9/46 • • Aerated, foamed, cellular or porous products [2006.01]
- 9/48 • • Composite products, e.g. layered, coated, filled [2006.01]
- 9/50 • • Products with edible or inedible supports, e.g. cornets [2006.01]
- 9/52 • Liquid products; Solid products in the form of powders, flakes or granules for making liquid products [2006.01]

A23J PROTEIN COMPOSITIONS FOR FOODSTUFFS; WORKING-UP PROTEINS FOR FOODSTUFFS; PHOSPHATIDE COMPOSITIONS FOR FOODSTUFFS [4]

- 1/00 **Obtaining protein compositions for foodstuffs; Bulk opening of eggs and separation of yolks from whites [1, 4, 2006.01]**
- 1/02 • from meat [1, 2006.01]
- 1/04 • from fish or other sea animals [1, 2006.01]
- 1/06 • from blood [1, 2, 2006.01]
- 1/08 • from eggs [1, 2006.01]
- 1/09 • • separating yolks from whites [1, 2006.01]
- 1/10 • from hair, feathers, horn, skins, leather, bones, or the like [1, 2006.01]
- 1/12 • from cereals, wheat, bran, or molasses [1, 2006.01]
- 1/14 • from leguminous or other vegetable seeds; from press-cake or oil-bearing seeds [1, 2006.01]
- 1/16 • from waste water of starch-manufacturing plant or like wastes [1, 2006.01]
- 1/18 • from yeasts [1, 2006.01]
- 1/20 • from milk, e.g. casein (curds or cheese A23C); from whey [1, 2006.01]
- 1/22 • • Drying casein [1, 2006.01]
- 3/00 **Working-up of proteins for foodstuffs [1, 2006.01]**
- Note(s) [5]
In groups A23J 3/04-A23J 3/20, 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.
- 3/04 • Animal proteins [5, 2006.01]
- 3/06 • • Gelatine [5, 2006.01]
- 3/08 • • Dairy proteins [5, 2006.01]
- 3/10 • • • Casein (drying casein A23J 1/22) [5, 2006.01]
- 3/12 • • from blood [5, 2006.01]
- 3/14 • Vegetable proteins [5, 2006.01]
- 3/16 • • from soybean [5, 2006.01]
- 3/18 • • from wheat [5, 2006.01]
- 3/20 • Proteins from microorganisms or unicellular algae [5, 2006.01]
- Note(s) [5]
Subject matter classified in groups A23J 3/22-A23J 3/30 is also classified in groups A23J 3/04-A23J 3/20, if the nature of the protein is of interest.
- 3/22 • by texturising [5, 2006.01]
- 3/24 • • using freezing [5, 2006.01]
- 3/26 • • using extrusion or expansion [5, 2006.01]
- 3/28 • • using coagulation from or in a bath, e.g. spun fibres [5, 2006.01]
- 3/30 • by hydrolysis [5, 2006.01]
- 3/32 • • using chemical agents [5, 2006.01]
- 3/34 • • • using enzymes [5, 2006.01]
- 7/00 **Phosphatide compositions for foodstuffs, e.g. lecithin [1, 4, 2006.01]**

A23K FEEDING-STUFFS SPECIALLY ADAPTED FOR ANIMALS; METHODS SPECIALLY ADAPTED FOR PRODUCTION THEREOF

- 10/00 **Animal feeding-stuffs [2016.01]**
- 10/10 • obtained by microbiological or biochemical processes (using chemicals or microorganisms for ensilaging of green fodder A23K 30/15) [2016.01]
- 10/12 • • by fermentation of natural products, e.g. of vegetable material, animal waste material or biomass [2016.01]
- 10/14 • • Pretreatment of feeding-stuffs with enzymes [2016.01]
- 10/16 • • Addition of microorganisms or extracts thereof, e.g. single-cell proteins, to feeding-stuff compositions (A23K 10/12 takes precedence) [2016.01]
- 10/18 • • • of live microorganisms [2016.01]
- 10/20 • from material of animal origin (obtained by microbiological or biochemical processes A23K 10/10) [2016.01]
- 10/22 • • from fish [2016.01]
- 10/24 • • from blood [2016.01]
- 10/26 • • from waste material, e.g. feathers, bones or skin (A23K 10/24 takes precedence) [2016.01]
- 10/28 • • • from waste dairy products [2016.01]
- 10/30 • from material of plant origin, e.g. roots, seeds or hay; from material of fungal origin, e.g. mushrooms (obtained by microbiological or biochemical processes, e.g. using yeasts or enzymes, A23K 10/10) [2016.01]
- 10/32 • • from hydrolysates of wood or straw [2016.01]
- 10/33 • • from molasses [2016.01]

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- 10/35 • • from potatoes [2016.01]
- 10/37 • • from waste material (from hydrolysates of wood or straw A23K 10/32; from molasses A23K 10/33) [2016.01]
- 10/38 • • • from distillers' or brewers' waste [2016.01]
- 10/40 • Mineral licks, e.g. salt blocks [2016.01]

20/00 Accessory food factors for animal feeding-stuffs [2016.01]

- 20/10 • Organic substances [2016.01]

Note(s) [2016.01]

When classifying in groups A23K 20/105-A23K 20/168, classification is also made in groups A23K 20/174-A23K 20/195 if the substance has a particular function.

- 20/105 • • Aliphatic or alicyclic compounds [2016.01]
- 20/111 • • Aromatic compounds [2016.01]
- 20/116 • • Heterocyclic compounds [2016.01]
- 20/121 • • • containing oxygen or sulfur as hetero atom [2016.01]
- 20/126 • • • Lactones [2016.01]
- 20/132 • • • containing only one nitrogen as hetero atom [2016.01]
- 20/137 • • • containing two hetero atoms, of which at least one is nitrogen [2016.01]
- 20/142 • • Amino acids; Derivatives thereof [2016.01]
- 20/147 • • • Polymeric derivatives, e.g. peptides or proteins [2016.01]
- 20/153 • • Nucleic acids; Hydrolysis products or derivatives thereof [2016.01]
- 20/158 • • Fatty acids; Fats; Products containing oils or fats [2016.01]
- 20/163 • • Sugars; Polysaccharides [2016.01]
- 20/168 • • Steroids [2016.01]
- 20/174 • • Vitamins [2016.01]
- 20/179 • • Colouring agents, e.g. pigmenting or dyeing agents [2016.01]
- 20/184 • • Hormones [2016.01]
- 20/189 • • Enzymes [2016.01]
- 20/195 • • Antibiotics [2016.01]
- 20/20 • Inorganic substances, e.g. oligo-elements [2016.01]

Note(s) [2016.01]

In groups A23K 20/22-A23K 20/28, 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.

- 20/22 • • Compounds of alkali metals [2016.01]

- 20/24 • • Compounds of alkaline earth metals, e.g. magnesium [2016.01]
- 20/26 • • Compounds containing phosphorus [2016.01]
- 20/28 • • Silicates, e.g. perlites, zeolites or bentonites [2016.01]

30/00 Processes specially adapted for preservation of materials in order to produce animal feeding-stuffs [2016.01]

- 30/10 • of green fodder [2016.01]
- 30/12 • • Dehydration [2016.01]
- 30/15 • • using chemicals or microorganisms for ensilaging [2016.01]
- 30/18 • • • using microorganisms or enzymes [2016.01]
- 30/20 • Dehydration (of green fodder A23K 30/12) [2016.01]

40/00 Shaping or working-up of animal feeding-stuffs [2016.01]

- 40/10 • by agglomeration; by granulation, e.g. making powders [2016.01]
- 40/20 • by moulding, e.g. making cakes or briquettes [2016.01]
- 40/25 • by extrusion [2016.01]
- 40/30 • by encapsulating; by coating [2016.01]
- 40/35 • • Making capsules specially adapted for ruminants [2016.01]

50/00 Feeding-stuffs specially adapted for particular animals [2016.01]

- 50/10 • for ruminants [2016.01]
- 50/15 • • containing substances which are metabolically converted to proteins, e.g. ammonium salts or urea [2016.01]
- 50/20 • for horses [2016.01]
- 50/30 • for swine [2016.01]
- 50/40 • for carnivorous animals, e.g. cats or dogs [2016.01]
- 50/42 • • Dry feed [2016.01]
- 50/45 • • Semi-moist feed [2016.01]
- 50/48 • • Moist feed [2016.01]
- 50/50 • for rodents [2016.01]
- 50/60 • for weanlings [2016.01]

Note(s) [2016.01]

When classifying in group A23K 50/60, classification is also made in groups A23K 50/10-A23K 50/50 if the weanling is any of the animals covered by those groups.

- 50/70 • for birds [2016.01]
- 50/75 • • for poultry [2016.01]
- 50/80 • for aquatic animals, e.g. fish, crustaceans or molluscs [2016.01]
- 50/90 • for insects, e.g. bees or silkworms [2016.01]

A23L FOODS, FOODSTUFFS OR NON-ALCOHOLIC BEVERAGES, NOT OTHERWISE PROVIDED FOR; PREPARATION OR TREATMENT THEREOF (preservation thereof A23B) [4, 2006.01]

2/00 Non-alcoholic beverages; Dry compositions or concentrates therefor (soup concentrates A23L 23/10); Preparation or treatment thereof (preparation of non-alcoholic beverages by removal of alcohol C12H 3/00) [2, 2006.01]

- 2/02 • containing fruit or vegetable juices [2, 2006.01]
- 2/04 • • Extraction of juices (machines or apparatus for extracting juice A23N 1/00, A47J 19/00) [2, 2006.01]
- 2/06 • • • from citrus fruits [2, 2006.01]

- 2/08 • • Concentrating or drying of juices [2, 2006.01]
- 2/10 • • • by heating or contact with dry gases [2, 2006.01]
- 2/12 • • • by freezing [2, 2006.01]
- 2/14 • • • and sublimation [2, 2006.01]
- 2/38 • Other non-alcoholic beverages (drinks from legumes A23L 11/60) [2, 6, 2006.01, 2021.01]
- 2/385 • Concentrates of non-alcoholic beverages [6, 2006.01]
- 2/39 • • Dry compositions [6, 2006.01]

- 2/395 • • • in a particular shape or form [6, 2006.01]
- 2/40 • Effervescence-generating compositions [2, 2006.01]
- 2/52 • Adding ingredients (adding preservatives A23B 70/10) [6, 2006.01]
- 2/54 • • Mixing with gases [6, 2006.01]
- 2/56 • • Flavouring or bittering agents (sweeteners A23L 2/60) [6, 2006.01]
- 2/58 • • Colouring agents [6, 2006.01]
- 2/60 • • Sweeteners [6, 2006.01]
- 2/62 • • Clouding agents; Agents to improve the cloud-stability [6, 2006.01]
- 2/64 • • Re-adding volatile aromatic ingredients [6, 2006.01]
- 2/66 • • Proteins [6, 2006.01]
- 2/68 • • Acidifying substances [6, 2006.01]
- 2/70 • Clarifying or fining of non-alcoholic beverages; Removing unwanted matter [6, 2006.01]
- 2/72 • • by filtration [6, 2006.01]
- 2/74 • • • using membranes, e.g. osmosis, ultrafiltration [6, 2006.01]
- 2/76 • • by removal of gases [6, 2006.01]
- 2/78 • • by ion-exchange [6, 2006.01]
- 2/80 • • by adsorption [6, 2006.01]
- 2/82 • • by flocculation [6, 2006.01]
- 2/84 • • using microorganisms or biological material, e.g. enzymes [6, 2006.01]
- 5/00 Preparation or treatment of foods or foodstuffs, in general; Food or foodstuffs obtained thereby; Materials therefor [2016.01]**
- 5/10 • General methods of cooking foods, e.g. by roasting or frying [2016.01]
- 5/20 • Removal of unwanted matter, e.g. deodorisation or detoxification [2016.01]
- 5/30 • Physical treatment, e.g. electrical or magnetic means, wave energy or irradiation (cooking A23L 5/10) [2016.01]
- 5/40 • Colouring or decoloring of foods [2016.01]
- 5/41 • • Retaining or modifying natural colour by use of additives, e.g. optical brighteners (A23L 5/42 takes precedence) [2016.01]
- 5/42 • • Addition of dyes or pigments, e.g. in combination with optical brighteners [2016.01]
- 5/43 • • • using naturally occurring organic dyes or pigments, their artificial duplicates or their derivatives [2016.01]
- 5/44 • • • • using carotenoids or xanthophylls [2016.01]
- 5/46 • • • using dyes or pigments of microbial or algal origin [2016.01]
- 5/47 • • • using synthetic organic dyes or pigments not covered by groups A23L 5/43-A23L 5/46 [2016.01]
- 5/48 • • • • Compounds of unspecified constitution characterised by the chemical process for their preparation [2016.01]
- 5/49 • • Removing colour by chemical reaction, e.g. bleaching [2016.01]
- 7/00 Cereal-derived products; Malt products; Preparation or treatment thereof (preparation of malt for brewing C12C) [2016.01]**
- 7/10 • Cereal-derived products [2016.01]
- 7/104 • • Fermentation of farinaceous cereal or cereal material; Addition of enzymes or microorganisms [2016.01]
- 7/109 • • Types of pasta, e.g. macaroni or noodles [2016.01]
- 7/113 • • • Parboiled or instant pasta [2016.01]
- 7/117 • • Flakes or other shapes of ready-to-eat type; Semi-finished or partly-finished products therefor (cereal granules or flakes to be cooked and eaten hot A23L 7/143; cereal germ products A23L 7/152) [2016.01]
- 7/122 • • • Coated, filled, multilayered or hollow ready-to-eat cereals [2016.01]
- 7/126 • • • Snacks or the like obtained by binding, shaping or compacting together cereal grains or cereal pieces, e.g. cereal bars [2016.01]
- 7/13 • • • Snacks or the like obtained by oil frying of a formed cereal dough [2016.01]
- 7/135 • • • Individual or non-extruded flakes, granules or shapes having similar size, e.g. breakfast cereals [2016.01]
- 7/139 • • • • made from wholegrain or grain pieces without preparation of meal or dough [2016.01]
- 7/143 • • Cereal granules or flakes to be cooked and eaten hot, e.g. oatmeal; Reformed rice products [2016.01]
- 7/148 • • • made from wholegrain or grain pieces without preparation of meal or dough [2016.01]
- 7/152 • • Cereal germ products [2016.01]
- 7/157 • • Farinaceous granules for dressing meat, fish or the like [2016.01]
- 7/161 • • Puffed cereals, e.g. popcorn or puffed rice [2016.01]
- 7/165 • • • Preparation of puffed cereals involving preparation of meal or dough as an intermediate step [2016.01]
- 7/17 • • • • by extrusion [2016.01]
- 7/174 • • • Preparation of puffed cereals from wholegrain or grain pieces without preparation of meal or dough [2016.01]
- 7/178 • • • • by pressure release with or without heating [2016.01]
- 7/183 • • • • by heating without using a pressure release device [2016.01]
- 7/187 • • • • • Discontinuously-working apparatus [2016.01]
- 7/191 • • • After-treatment of puffed cereals, e.g. coating or salting [2016.01]
- 7/196 • • Products in which the original granular shape is maintained, e.g. parboiled rice [2016.01]
- 7/20 • Malt products (preparation of malt for brewing C12C) [2016.01]
- 7/25 • • Fermentation of cereal malt or of cereal by malting [2016.01]
- 9/00 Puddings; Cream substitutes; Preparation or treatment thereof [2016.01]**
- 9/10 • Puddings; Dry powder puddings [2016.01]
- 9/20 • Cream substitutes [2016.01]
- 11/00 Pulses, i.e. fruits of leguminous plants, for production of food; Products from legumes; Preparation or treatment thereof (preservation thereof A23B 75/00) [2016.01, 2021.01, 2025.01]**
- 11/10 • Rapid cooking pulses [2016.01]
- 11/30 • Removing undesirable substances, e.g. bitter substances [2016.01]
- 11/40 • Pulse curds [2021.01]
- 11/45 • • Soy bean curds, e.g. tofu [2021.01]
- 11/50 • Fermented pulses or legumes; Fermentation of pulses or legumes based on the addition of microorganisms (removing undesirable substances, A23L 11/30; soy sauce A23L 27/50) [2021.01]

- 11/60 • *Drinks from legumes, e.g. lupine drinks* [2021.01, 2025.01]
- 11/65 • • *Soy drinks* [2021.01, 2025.01]
- 11/70 • Germinated pulse products, e.g. from soy bean sprouts [2021.01]
- 13/00 Meat products; Meat meal; Preparation or treatment thereof** [2016.01]
- 13/10 • Meat meal or powder; Granules, agglomerates or flakes [2016.01]
- 13/20 • from offal, e.g. rinds, skins, marrow, tripes, feet, ears or snouts (glands or bones as ingredients of processed meat A23L 13/60) [2016.01]
- 13/30 • Meat extracts [2016.01]
- 13/40 • containing additives (tenderising meat by using additives A23L 13/72) [2016.01, 2023.01]
- 13/50 • Poultry products, e.g. poultry sausages [2016.01]
- 13/60 • Comminuted or emulsified meat products, e.g. sausages; Reformed meat from comminuted meat product [2016.01]
- 13/70 • Tenderised or flavoured meat pieces; Macerating or marinating solutions specially adapted therefor [2016.01, 2023.01]
- 13/72 • • using additives, e.g. by injection of solutions [2023.01]
- 13/74 • • • using microorganisms or enzymes [2023.01]
- 13/75 • • • using macerating or marinating solutions, e.g. marinades containing spices, acids, condiments or flavouring agents [2023.01]
- 13/76 • • by treatment in a gaseous atmosphere, e.g. ageing or ripening; by electrical treatment, irradiation or wave treatment [2023.01]
- 13/77 • • by mechanical treatment, e.g. kneading, rubbing or tumbling [2023.01]
- 15/00 Egg products; Preparation or treatment thereof** [2016.01]
- 15/10 • Egg rolls [2016.01]
- 17/00 Food-from-the-sea products; Fish products; Fish meal; Fish-egg substitutes; Preparation or treatment thereof** [2016.01]
- 17/10 • Fish meal or powder; Granules, agglomerates or flakes [2016.01]
- 17/20 • Fish extracts [2016.01]
- 17/30 • Fish eggs, e.g. caviar; Fish-egg substitutes [2016.01]
- 17/40 • Shell-fish [2016.01]
- 17/50 • Molluscs [2016.01]
- 17/60 • Edible seaweed [2016.01]
- 19/00 Products from fruits or vegetables; Preparation or treatment thereof** (marmalades, jams, jellies or the like A23L 21/10; treating harvested fruit or vegetables in bulk A23N) [2016.01]
- 19/10 • of tuberous or like starch containing root crops [2016.01]
- 19/12 • • of potatoes [2016.01]
- 19/15 • • • Unshaped dry products, e.g. powders, flakes, granules or agglomerates [2016.01]
- 19/18 • • • Roasted or fried products, e.g. snacks or chips [2016.01]
- 19/20 • by pickling, e.g. sauerkraut or pickles [2016.01]
- 21/00 Marmalades, jams, jellies or the like; Products from apiculture; Preparation or treatment thereof** [2016.01]
- 21/10 • Marmalades; Jams; Jellies; Other similar fruit or vegetable compositions; Simulated fruit products [2016.01]
- 21/12 • • derived from fruit or vegetable solids [2016.01]
- 21/15 • • derived from fruit or vegetable juices [2016.01]
- 21/18 • • Simulated fruit products [2016.01]
- 21/20 • Products from apiculture, e.g. royal jelly or pollen; Substitutes therefor [2016.01]
- 21/25 • • Honey; Honey substitutes [2016.01]
- 23/00 Soups; Sauces** (soya sauce A23L 27/50; salad dressings, mayonnaise or ketchup A23L 27/60); **Preparation or treatment thereof** [2016.01]
- 23/10 • Soup concentrates, e.g. powders or cakes [2016.01]
- 25/00 Food consisting mainly of nutmeat or seeds; Preparation or treatment thereof** [2016.01]
- 25/10 • Peanut butter [2016.01]
- 27/00 Spices; Flavouring agents or condiments; Artificial sweetening agents; Table salts; Dietetic salt substitutes; Preparation or treatment thereof** [2016.01]
- 27/10 • Natural spices, flavouring agents or condiments; Extracts thereof [2016.01]
- 27/12 • • from fruit, e.g. essential oils [2016.01]
- 27/14 • • Dried spices [2016.01]
- 27/16 • • • Onions [2016.01]
- 27/18 • • Mustard [2016.01]
- 27/20 • Synthetic spices, flavouring agents or condiments [2016.01]
- 27/21 • • containing amino acids [2016.01]
- 27/22 • • • containing glutamic acids [2016.01]
- 27/23 • • containing nucleotides [2016.01]
- 27/24 • • prepared by fermentation [2016.01]
- 27/26 • • Meat flavours [2016.01]
- 27/27 • • Smoke flavours [2016.01]
- 27/28 • • Coffee or cocoa flavours [2016.01]
- 27/29 • • Fruit flavours [2016.01]
- 27/30 • Artificial sweetening agents [2016.01]
- 27/40 • Table salts; Dietetic salt substitutes [2016.01]
- 27/50 • Soya sauce [2016.01]
- 27/60 • Salad dressings; Mayonnaise; Ketchup [2016.01]
- 29/00 Foods or foodstuffs containing additives** (containing additives for modifying the nutritive qualities A23L 33/10; containing substantially indigestible additives, e.g. dietary fibres, A23L 33/21; containing additives for preservation A23B); **Preparation or treatment thereof** [2016.01]
- 29/10 • containing emulsifiers [2016.01]
- 29/20 • containing gelling or thickening agents (marmalades, jams, jellies or other similar fruit or vegetable compositions A23L 21/10) [2016.01]
- 29/206 • • of vegetable origin [2016.01]
- 29/212 • • • Starch; Modified starch; Starch derivatives, e.g. esters or ethers (containing starch hydrolysates, e.g. dextrin, A23L 29/30) [2016.01]
- 29/219 • • • Chemically modified starch; Reaction or complexation products of starch with other chemicals [2016.01]
- 29/225 • • • • Farinaceous thickening agents other than isolated starch or derivatives [2016.01]
- 29/231 • • • Pectin; Derivatives thereof [2016.01]
- 29/238 • • • from seeds, e.g. locust bean gum or guar gum (starch A23L 29/212; pectin A23L 29/231) [2016.01]

- 29/244 • • • from corms, tubers or roots, e.g. glucomannan (starch A23L 29/212) [2016.01]
- 29/25 • • • Exudates, e.g. gum arabic, gum acacia, gum karaya or tragacanth [2016.01]
- 29/256 • • • from seaweeds, e.g. alginates, agar or carrageenan [2016.01]
- 29/262 • • • Cellulose; Derivatives thereof, e.g. ethers [2016.01]
- 29/269 • • • of microbial origin, e.g. xanthan or dextran [2016.01]
- 29/275 • • • of animal origin, e.g. chitin [2016.01]
- 29/281 • • • Proteins, e.g. gelatin or collagen [2016.01]
- 29/288 • • Synthetic resins, e.g. polyvinylpyrrolidone [2016.01]
- 29/294 • • Inorganic additives, e.g. silica [2016.01]
- 29/30 • containing carbohydrate syrups; containing sugars; containing sugar alcohols, e.g. xylitol; containing starch hydrolysates, e.g. dextrin (products from apiculture A23L 21/20; artificial sweetening agents A23L 27/30) [2016.01]
- 31/00 Edible extracts or preparations of fungi; Preparation or treatment thereof [2016.01]**
- 31/10 • Yeasts or derivatives thereof [2016.01]
- 31/15 • • Extracts [2016.01]
- 33/00 Modifying nutritive qualities of foods; Dietetic products; Preparation or treatment thereof [2016.01]**
- 33/10 • using additives (addition of substantially indigestible substances A23L 33/21) [2016.01]
- 33/105 • • Plant extracts, their artificial duplicates or their derivatives [2016.01]
- 33/11 • • • Plant sterols or derivatives thereof, e.g. phytosterols [2016.01]
- 33/115 • • Fatty acids or derivatives thereof; Fats or oils [2016.01]
- 33/12 • • • Fatty acids or derivatives thereof [2016.01]
- 33/125 • • containing carbohydrate syrups; containing sugars; containing sugar alcohols; containing starch hydrolysates (indigestible substances A23L 33/21) [2016.01]
- 33/13 • • Nucleic acids or derivatives thereof (A23L 33/145 takes precedence) [2016.01]
- 33/135 • • Bacteria or derivatives thereof, e.g. probiotics [2016.01]
- 33/14 • • Yeasts or derivatives thereof [2016.01]
- 33/145 • • • Extracts [2016.01]
- 33/15 • • Vitamins [2016.01]
- 33/155 • • • Vitamins A or D [2016.01]
- 33/16 • • Inorganic salts, minerals or trace elements [2016.01]
- 33/165 • • • Complexes or chelates [2016.01]
- 33/17 • • Amino acids, peptides or proteins [2016.01]
- 33/175 • • • Amino acids [2016.01]
- 33/18 • • • Peptides; Protein hydrolysates [2016.01]
- 33/185 • • • Vegetable proteins [2016.01]
- 33/19 • • • Dairy proteins [2016.01]
- 33/195 • • • Proteins from microorganisms [2016.01]
- 33/20 • Reducing nutritive value; Dietetic products with reduced nutritive value [2016.01]
- 33/21 • • Addition of substantially indigestible substances, e.g. dietary fibres [2016.01]
- 33/22 • • • Comminuted fibrous parts of plants, e.g. bagasse or pulp [2016.01]
- 33/24 • • • Cellulose or derivatives thereof [2016.01]
- 33/25 • • • Synthetic polymers, e.g. vinylic or acrylic polymers [2016.01]
- 33/26 • • • • Polyol polyesters, e.g. sucrose polyesters; Synthetic sugar polymers, e.g. polydextrose [2016.01]
- 33/28 • • • Substances of animal origin, e.g. gelatin or collagen [2016.01]
- 33/29 • • • Mineral substances, e.g. mineral oils or clays [2016.01]
- 35/00 Foods or foodstuffs not provided for in groups A23L 5/00-A23L 33/00; Preparation or treatment thereof (preservation thereof A23B) [2016.01]**
- A23N MACHINES OR APPARATUS FOR TREATING HARVESTED FRUIT, VEGETABLES, OR FLOWER BULBS IN BULK, NOT OTHERWISE PROVIDED FOR; PEELING VEGETABLES OR FRUIT IN BULK; APPARATUS FOR PREPARING ANIMAL FEEDING-STUFFS** (machines for cutting straw or fodder A01F 29/00; disintegrating, e.g. shredding, B02C; severing, e.g. cutting, splitting, slicing, B26B, B26D)

Subclass index

APPARATUS FOR DRAINING.....	1/00
MACHINES FOR STONING OR REMOVING SEED CONTAINING SECTIONS.....	3/00, 4/00
MACHINES FOR HULLING, HUSKING, CRACKING, OR PEELING.....	5/00, 7/00
APPARATUS FOR PREPARING ANIMAL FEEDING-STUFFS.....	17/00
MACHINES FOR OTHER TREATMENT.....	11/00-15/00

- 1/00 Machines or apparatus for extracting juice** (preparation of non-alcoholic beverages, e.g. by adding ingredients to fruit or vegetable juices, A23L 2/00; apparatus for making beverages A47J 31/00; extracting presses B30B) [1, 2006.01]
- 1/02 • combined with disintegrating or cutting [1, 2006.01]
- 3/00 Machines for coring or stoning fruit, characterised by their feeding device** (A23N 4/00 takes precedence) [1, 2, 2006.01]
- 3/02 • with feeder-drums [1, 2006.01]
- 3/04 • with endless feeder-belts [1, 2006.01]
- 3/06 • with feeder-tables [1, 2006.01]
- 4/00 Machines for stoning fruit or removing seed-containing sections from fruit, characterised by their stoning or removing device** (for peeling fruit and removing seed-containing sections A23N 7/08; domestic devices for stoning fruit A47J 23/00, for coring fruit A47J 25/00) [2, 3, 2006.01]

A23N

- 4/02 • for stoning fruit [2, 2006.01]
- 4/04 • • for peaches, plums, apricots or the like [2, 2006.01]
- 4/06 • • for cherries or the like (A23N 4/04 takes precedence) [2, 2006.01]
- 4/08 • • for dates, olives or the like oblong fruits [2, 2006.01]
- 4/10 • • for fruit with very small pips e.g. raisins [2, 2006.01]
- 4/12 • for coring fruit [2, 2006.01]
- 4/14 • • for apples, pears or the like [2, 2006.01]
- 4/16 • • for tomatoes or the like [2, 2006.01]
- 4/18 • • for citrus fruits [2, 2006.01]
- 4/20 • • for pineapples [2, 2006.01]
- 4/22 • for both splitting and stoning [2, 2006.01]
- 4/24 • for removing seed-containing sections from cut fruit [2, 2006.01]

5/00 **Machines for hulling, husking, or cracking nuts [1, 2006.01]**

- 5/01 • for peanuts [2, 2006.01]
- 5/03 • for coconuts (A23N 5/08 takes precedence) [2, 2006.01]
- 5/08 • for removing fleshy or fibrous hulls of nuts (for peanuts A23N 5/01) [1, 2006.01]

7/00 **Peeling vegetables or fruit** (devices for skinning onions A23N 15/08; peeling machines of the household type A47J 17/00) [1, 3, 2006.01]

- 7/01 • using chemical substances, e.g. lye [2, 3, 2006.01]
- 7/02 • Peeling potatoes, apples or similarly shaped vegetables or fruit (A23N 7/01 takes precedence) [1, 3, 2006.01]
- 7/04 • Peeling asparagus (A23N 7/01 takes precedence) [1, 3, 2006.01]
- 7/08 • for peeling fruit and removing seed-containing sections [1, 2006.01]
- 7/10 • Driving mechanisms [1, 2006.01]

11/00 **Removing pith from stems [1, 2006.01]**

12/00 **Machines for cleaning, blanching, drying or roasting fruits or vegetables, e.g. coffee, cocoa, nuts** (methods for treating, e.g. roasting, coffee or cocoa A23F, A23G; cleaning, e.g. washing, or drying grain B02B 1/00; separating solids from solids for cleaning B07B; cleaning in general B08B; heating devices *per se*, see the relevant classes, e.g. F24; drying machines in general F26B) [3, 2006.01]

- 12/02 • for washing or blanching (A23N 12/06 takes precedence; blanching methods A23B 7/06) [3, 2006.01]
- 12/04 • • for blanching [3, 2006.01]
- 12/06 • for washing or blanching, combined with subsequent drying [3, 2006.01]
- 12/08 • for drying or roasting (A23N 12/06 takes precedence) [3, 2006.01]
- 12/10 • • Rotary roasters [3, 2006.01]
- 12/12 • • Auxiliary devices for roasting machines [3, 2006.01]

15/00 **Machines or apparatus for other treatment of fruits or vegetables for human purposes; Machines or apparatus for topping or skinning flower bulbs [1, 2, 2006.01]**

- 15/01 • for stripping brussels' sprouts from stalks [2, 2006.01]
- 15/02 • for stemming, piercing or stripping fruit; Removing sprouts of potatoes [1, 2006.01]
- 15/04 • Devices for topping fruit or vegetables (topping onions A23N 15/08) [1, 2, 2006.01]
- 15/06 • Devices for other treatment of fruit, e.g. marking, maturing, polishing [1, 2006.01]
- 15/08 • Devices for topping or skinning onions or flower bulbs [2, 2006.01]
- 15/10 • for shelling peas or beans [2, 2006.01]
- 15/12 • for snipping or stringing beans [3, 2006.01]

17/00 **Apparatus specially adapted for preparing animal feeding-stuffs [1, 2006.01]**

- 17/02 • Fodder mashers (household implements for mashing potatoes or other foodstuffs A47J 19/04) [1, 2006.01]

A23P **SHAPING OR WORKING OF FOODSTUFFS, NOT FULLY COVERED BY A SINGLE OTHER SUBCLASS**

Note(s)

Attention is drawn to subclasses A01J, A21C, A22C, A47J, B02C, in addition to other subclasses of A23, in connection with the shaping or working of foodstuffs.

10/00 **Shaping or working of foodstuffs characterised by the products [2016.01]**

- 10/10 • Securing foodstuffs on a non-edible supporting member [2016.01]
- 10/20 • Agglomerating; Granulating; Tableting [2016.01]
- 10/22 • • Agglomeration or granulation with pulverisation of solid particles, e.g. in a free-falling curtain [2016.01]
- 10/25 • • Agglomeration or granulation by extrusion or by pressing, e.g. through small holes, through sieves or between surfaces [2016.01]
- 10/28 • • Tableting; Making food bars by compression of a dry powdered mixture [2016.01]
- 10/30 • Encapsulation of particles, e.g. foodstuff additives [2016.01]
- 10/35 • • with oils, lipids, monoglycerides or diglycerides [2016.01]

- 10/40 • Making free-flowing powder or instant powder, i.e. powder which is reconstituted rapidly when liquid is added (A23P 10/20, A23P 10/30 take precedence) [2016.01]
- 10/43 • • using anti-caking agents or agents improving flowability, added during or after formation of the powder [2016.01]
- 10/47 • • using additives, e.g. emulsifiers, wetting agents or dust-binding agents [2016.01]

20/00 **Coating of foodstuffs; Coatings therefor; Making laminated, multi-layered, stuffed or hollow foodstuffs [2016.01]**

- 20/10 • Coating with edible coatings, e.g. with oils or fats [2016.01]

- 20/12 • • Apparatus or processes for applying powders or particles to foodstuffs, e.g. for breading; Such apparatus combined with means for pre-moistening or battering **[2016.01]**
- 20/13 • • • involving agitation of the foodstuff inside a rotating apparatus, e.g. a drum **[2016.01]**
- 20/15 • • Apparatus or processes for coating with liquid or semi-liquid products **[2016.01]**
- 20/17 • • • by dipping in a bath **[2016.01]**
- 20/18 • • • by spray-coating, fluidised-bed coating or coating by casting (combined with breading A23P 20/12) **[2016.01]**
- 20/20 • Making of laminated, multi-layered, stuffed or hollow foodstuffs, e.g. by wrapping in preformed edible dough sheets or in edible food containers **[2016.01]**
- 20/25 • • Filling or stuffing cored food pieces, e.g. combined with coring or making cavities **[2016.01]**
- 30/00 Shaping or working of foodstuffs characterised by the process or apparatus (A23P 10/00, A23P 20/00 take precedence) [2016.01]**
- 30/10 • Moulding **[2016.01]**
- 30/20 • Extruding **[2016.01]**
- 30/25 • • Co-extrusion of different foodstuffs **[2016.01]**
- 30/30 • Puffing or expanding **[2016.01]**
- 30/32 • • by pressure release, e.g. explosion puffing; by vacuum treatment **[2016.01]**
- 30/34 • • • by extrusion-expansion **[2016.01]**
- 30/36 • • • in discontinuously working apparatus **[2016.01]**
- 30/38 • • by heating (combined with pressure release or vacuum treatment A23P 30/32) **[2016.01]**
- 30/40 • Foaming or whipping **[2016.01]**