

# CPC COOPERATIVE PATENT CLASSIFICATION

## A HUMAN NECESSITIES

### FOODSTUFFS; TOBACCO

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

(NOTE omitted)

#### A23C DAIRY PRODUCTS, e.g. MILK, BUTTER, CHEESE; MILK OR CHEESE SUBSTITUTES; MAKING THEREOF (obtaining protein compositions for foodstuffs, {e.g. from milk} , [A23J 1/00](#); preparation of peptides, e.g. of proteins, in general [C07K 1/00](#))

##### NOTE

This subclass covers:

- the chemical aspects of making dairy products
- the apparatus used for performing techniques provided for therein, e.g. for concentration, evaporation, drying, preservation, or sterilisation, unless such apparatus is specifically provided for in another subclass, e.g. [A01J](#) for treatment of milk or cream for manufacture of butter or cheese.

##### General dairy technology

- |             |   |             |   |
|-------------|---|-------------|---|
|             |   | 3/033       | . . . and progressively transported through the apparatus   |
| <b>1/00</b> | <b>Concentration, evaporation or drying</b> (products obtained thereby <a href="#">A23C 9/00</a> ; making butter powder <a href="#">A23C 15/14</a> , cheese powder <a href="#">A23C 19/086</a> ; evaporating in general <a href="#">B01D 1/00</a> ) | 3/0332      | . . . . {in contact with multiple heating plates}   |
|             |   | 3/0335      | . . . . {the milk being heated by electrical or mechanical means, e.g. by friction}   |
| 1/01        | . Drying in thin layers   | 3/0337      | . . . . {the milk flowing through with indirect heat exchange, containing rotating elements, e.g. for improving the heat exchange}  |
| 1/03        | . . on drums or rollers   |             |   |
| 1/04        | . by spraying into a gas stream   | 3/037       | . . . . in direct contact with the heating medium, e.g. steam   |
| 1/045       | . . {by simultaneously or separately spraying of two different liquid products other than water or steam; by separate addition of additives other than milk products or lactose in the spray-dryer}   | 3/0375      | . . . . . {by pulverisation of the milk, including free falling film}   |
| 1/05        | . . combined with agglomeration {granulation or coating}  | 3/04        | . by freezing or cooling  |
| 1/06        | . Concentration by freezing out the water   | 3/045       | . . {Freezing in loose unpacked form}   |
| 1/08        | . . Freeze-drying   | 3/05        | . . in packages   |
| 1/10        | . Foam drying ( <a href="#">A23C 1/04</a> , <a href="#">A23C 1/08</a> take precedence)  | 3/055       | . . . {Freezing in packages}  |
| 1/12        | . Concentration by evaporation  | 3/07        | . by irradiation, e.g. by microwaves {; by sonic or ultrasonic waves}   |
| 1/14        | . combined with other treatment ( <a href="#">A23C 3/00</a> , <a href="#">A23C 9/00</a> take precedence)  | 3/073       | . . {by sonic or ultrasonic waves}  |
| 1/16        | . . using additives   | 3/076       | . . {by ultraviolet or infrared radiation}  |
| <b>3/00</b> | <b>Preservation of milk or milk preparations</b> (of cream <a href="#">A23C 13/08</a> ; of butter <a href="#">A23C 15/18</a> ; of cheese <a href="#">A23C 19/097</a> )  | 3/08        | . by addition of preservatives (additions of microorganisms or enzymes <a href="#">A23C 9/12</a> , of other substances <a href="#">A23C 9/152</a> )   |
| 3/005       | . {Storing or packaging in a vacuum or in inert or sterile gaseous atmosphere (impregnation with inert gases <a href="#">A23C 9/1524</a> )}   | 3/085       | . . {Inorganic compounds, e.g. lactoperoxidase - H <sub>2</sub> O <sub>2</sub> systems}   |
| 3/02        | . by heating ( <a href="#">A23C 3/07</a> takes precedence)  | <b>7/00</b> | <b>Other dairy technology</b>   |
| 3/023       | . . in packages   | 7/02        | . Chemical cleaning of dairy apparatus (cleaning in general <a href="#">B08B</a> , e.g. <a href="#">B08B 3/08</a> ); Use of sterilisation methods therefor (sterilisation methods <a href="#">per se</a> <a href="#">A61L</a> ) |
| 3/027       | . . . progressively transported through the apparatus   | 7/04        | . Removing unwanted substances {other than lactose or milk proteins} from milk (by filtering <a href="#">A01J 9/02</a> , <a href="#">A01J 11/06</a> )   |
| 3/03        | . . the materials being loose unpacked  |             |   |
| 3/031       | . . . {Apparatus through which the material is transported non progressively; Temperature-maintaining holding tanks or vats with discontinuous filling or discharge}  | 7/043       | . . {using chemicals in liquid or solid state, e.g. flocculating, adsorbing or extracting agents ( <a href="#">A23C 9/146</a> and <a href="#">A23C 9/148</a> take precedence)}  |

- 9/046 . . {by centrifugation without using chemicals, e.g. bactofugation; re-use of bactofugate}

- 9/1307 . . . {Milk products or derivatives; Fruit or vegetable juices; Sugars, sugar alcohols, sweeteners; Oligosaccharides; Organic acids or salts thereof or acidifying agents; Flavours, dyes or pigments; Inert or aerosol gases; Carbonation methods}

- 9/1315 . . . {Non-milk proteins or fats; Seeds, pulses, cereals or soja; Fatty acids, phospholipids, mono- or diglycerides or derivatives therefrom; Egg products}

- 9/1322 . . . {Inorganic compounds; Minerals, including organic salts thereof, oligo-elements; Amino-acids, peptides, protein-hydrolysates or derivatives; Nucleic acids or derivatives; Yeast extract or autolysate; Vitamins; Antibiotics; Bacteriocins}

- 9/133 . . . Fruit or vegetables

- 9/137 . . . Thickening substances

- 9/14 . . in which the chemical composition of the milk is modified by non-chemical treatment

#### NOTE

When classifying in this group, classification is also made in group [B01D 15/08](#) insofar as subject matter of general interest relating to chromatography is concerned

- 9/142 . . by dialysis, reverse osmosis or ultrafiltration ([A23C 9/144](#) takes precedence)

- 9/1422 . . . {by ultrafiltration, microfiltration or diafiltration of milk, e.g. for separating protein and lactose; Treatment of the UF permeate}

- 9/1425 . . . {by ultrafiltration, microfiltration or diafiltration of whey, e.g. treatment of the UF permeate}

- 9/1427 . . . {by dialysis, reverse osmosis or hyperfiltration, e.g. for concentrating or desalting}

- 9/144 . . by electrical means, e.g. electro dialysis

- 9/146 . . by ion-exchange

- 9/1465 . . . {Chromatographic separation of protein or lactose fraction; Adsorption of protein or lactose fraction followed by elution}

- 9/148 . . by molecular sieve or gel filtration {or chromatographic treatment ([A23C 9/1465](#) takes precedence)}

- 9/15 . . Reconstituted or recombined milk products containing neither non-milk fat nor non-milk proteins (containing thickening substances [A23C 9/154](#); mixtures of whey, with milk products or milk components [A23C 21/06](#))

- 9/1504 . . {Spreads, semi-solid products}

- 9/1508 . . {Dissolving or reconstituting milk powder; Reconstitution of milk concentrate with water; Standardisation of fat content of milk}

- 9/1512 . . {containing isolated milk or whey proteins, caseinates or cheese; Enrichment of milk products with milk proteins in isolated or concentrated form, e.g. ultrafiltration retentate}

- 9/1516 . . {Enrichment or recombination of milk (excepted whey) with milk fat, cream of butter without using isolated or concentrated milk proteins}

- 9/152 . . containing additives (fermented milk preparations containing additives [A23C 9/13](#))

### Dairy products; Processes specially adapted therefor

- 9/00 Milk preparations; Milk powder or milk powder preparations** ([A23C 21/06](#) takes precedence; preservation [A23C 3/00](#); chocolate milk [A23G 1/00](#); ice-cream or mixtures for preparation of ice-cream [A23G 9/00](#); puddings or dry powder puddings [A23L 9/10](#))

- 9/005 . . {Condensed milk; Sugared condensed milk ([A23C 1/06](#) and [A23C 1/12](#) take precedence)}

- 9/12 . . Fermented milk preparations; Treatment using microorganisms or enzymes (whey preparations [A23C 21/00](#))

- 9/1203 . . {Addition of, or treatment with, enzymes or microorganisms other than lactobacteriaceae}

- 9/1206 . . . {Lactose hydrolysing enzymes, e.g. lactase, beta-galactosidase}

- 9/1209 . . . {Proteolytic or milk coagulating enzymes, e.g. trypsin}

- 9/1213 . . . {Oxidation or reduction enzymes, e.g. peroxidase, catalase, dehydrogenase}

- 9/1216 . . . {Other enzymes}

- 9/122 . . {Apparatus for preparing or treating fermented milk products}

- 9/1223 . . . {for making stirred yoghurt; Apparatus with agitating or stirring means; Continuous bulk fermentation, heating or cooling, i.e. continuous inlet and outlet flow of yoghurt}

- 9/1226 . . . {for making set yoghurt in containers without stirring, agitation or transport of the yoghurt or the containers during incubation, heating or cooling; Domestic yoghurt apparatus without agitating means}

- 9/123 . . using only microorganisms of the genus lactobacteriaceae; Yoghurt ([A23C 9/13](#) takes precedence)

- 9/1232 . . . {in powdered, granulated or dried solid form}

- 9/1234 . . . {characterised by using a Lactobacillus sp. other than Lactobacillus Bulgaricus, including Bifidobacterium sp.}

- 9/1236 . . . {using Leuconostoc, Pediococcus or Streptococcus sp. other than Streptococcus Thermophilus; Artificial sour buttermilk in general ([A23C 9/1234](#) and [A23C 17/02](#) take precedence)}

- 9/1238 . . . {using specific L. bulgaricus or S. thermophilus microorganisms; using entrapped or encapsulated yoghurt bacteria; Physical or chemical treatment of L. bulgaricus or S. thermophilus cultures; Fermentation only with L. bulgaricus or only with S. thermophilus}

- 9/127 . . using microorganisms of the genus lactobacteriaceae and other microorganisms or enzymes, e.g. kefir, koumiss ([A23C 9/13](#) takes precedence)

- 9/1275 . . . {using only lactobacteriaceae for fermentation in combination with enzyme treatment of the milk product; using enzyme treated milk products for fermentation with lactobacteriaceae}

- 9/13 . . using additives

- 9/1522 . . {Inorganic additives, e.g. minerals, trace elements; Chlorination or fluoridation of milk; Organic salts or complexes of metals other than sodium or potassium; Calcium enrichment of milk}
- 9/1524 . . {Inert gases, noble gases, oxygen, aerosol gases; Processes for foaming}
- 9/1526 . . {Amino acids; Peptides; Protein hydrolysates; Nucleic acids; Derivatives thereof}
- 9/1528 . . {Fatty acids; Mono- or diglycerides; Petroleum jelly; Paraffine; Phospholipids; Derivatives thereof}
- 9/154 . . containing thickening substances, eggs or cereal preparations; Milk gels
- 9/1542 . . . {Acidified milk products containing thickening agents or acidified milk gels, e.g. acidified by fruit juices ([fermentation A23C 9/12](#))}
- 9/1544 . . . {Non-acidified gels, e.g. custards, creams, desserts, puddings, shakes or foams, containing eggs or thickening or gelling agents other than sugar; Milk products containing natural or microbial polysaccharides, e.g. cellulose or cellulose derivatives; Milk products containing nutrient fibres}
- 9/1546 . . . . {in powdered, granulated or dried solid form}
- 9/1548 . . . {Non-dried milk gels, creams or semi-solid products obtained by heating milk with a sugar without using gums, e.g. milk jam}
- 9/156 . . Flavoured milk preparations; {Addition of fruits, vegetables, sugars, sugar alcohols, sweeteners} ([A23C 9/154 takes precedence](#))
- 9/1565 . . . {Acidified milk products, e.g. milk flavoured with fruit juices ([A23C 9/1542 takes precedence](#); [fermentation A23C 9/12](#))}
- 9/158 . . containing vitamins or antibiotics
- 9/1585 . . . {Antibiotics; Bacteriocins; Fungicides from microorganisms}
- 9/16 . . Agglomerating or granulating milk powder; Making instant milk powder; Products obtained thereby ([A23C 1/05](#), [A23C 9/18 take precedence](#))
- 9/18 . . Milk in dried and compressed or semi-solid form
- 9/20 . . Dietetic milk products not covered by groups [A23C 9/12](#) - [A23C 9/18](#)
- 9/203 . . {containing bifidus-active substances, e.g. lactulose; containing oligosaccharides}
- 9/206 . . {Colostrum; Human milk}
- 11/00 Milk substitutes, e.g. coffee whitener compositions** (cheese substitutes [A23C 20/00](#); butter substitutes [A23D](#); cream substitutes [A23L 9/20](#))
- 11/02 . . containing at least one non-milk component as source of fats or proteins ([A23C 19/055](#), [A23C 21/04 take precedence](#))
- 11/04 . . containing non-milk fats but no non-milk proteins ([A23C 11/08](#), [A23C 11/10 take precedence](#))
- 11/045 . . . {obtained by mixing the non-fat components in powdered form with the fats or by dry mixing of the components}
- 11/06 . . containing non-milk proteins ([A23C 11/08](#), [A23C 11/10 take precedence](#))
- 11/065 . . . {Microbial proteins, inactivated yeast or animal proteins}
- 11/08 . . containing caseinates but no other milk proteins nor milk fats
- 11/10 . . containing or not lactose but no other milk components as source of fats, carbohydrates or proteins, e.g. soy milk
- 11/103 . . . {containing only proteins from pulses, oilseeds or nuts, e.g. soy or nut milk}
- 11/106 . . . . {Addition of, or treatment with, microorganisms ([A23C 20/025](#) and [A23L 11/37 take precedence](#))}
- 13/00 Cream; Cream preparations** (ice-cream [A23G 9/00](#)); **Making thereof** (coffee whitener compositions [A23C 11/00](#); cream substitutes [A23L 9/20](#))
- 13/08 . . Preservation
- 13/085 . . {Freezing; Subsequent melting}
- 13/10 . . by addition of preservatives ([A23C 13/14](#), [A23C 13/16 take precedence](#))
- 13/12 . . Cream preparations ([ice-cream A23G 9/00](#))
- 13/125 . . {in powdered, granulated or solid form}
- 13/14 . . containing milk products or {non-fat} milk components
- 13/16 . . containing, or treated with, microorganisms, enzymes, or antibiotics; Sour cream
- 13/165 . . . {Making sour cream by chemical or physical means only}
- 15/00 Butter; Butter preparations; Making thereof** (butter substitutes [A23D](#))
- 15/02 . . Making thereof
- 15/04 . . from butter oil or anhydrous butter
- 15/06 . . Treating cream {or milk} prior to phase inversion
- 15/065 . . . {Addition of a treatment with microorganisms or enzymes; Addition of cultured milk products}
- 15/12 . . Butter preparations
- 15/123 . . {Addition of microorganisms or cultured milk products; Addition of enzymes; Addition of starter cultures other than destillates}
- 15/126 . . {Butter containing a minority of vegetable oils; Enrichment of butter with fatty acids}
- 15/14 . . Butter powder; Butter oil, i.e. melted butter, e.g. ghee {; Anhydrous butter}
- 15/145 . . . {Removal of steroids, e.g. cholesterol or free acids; Fractionation of anhydrous milkfat by extraction with solvents other than solvent crystallisation or with supercritical gases or by distillation}
- 15/16 . . Butter having reduced fat content
- 15/165 . . . {prepared by addition of microorganisms; Cultured spreads}
- 15/18 . . Preservation
- 15/20 . . by addition of preservatives {or antioxidants}
- 17/00 Buttermilk; Buttermilk preparations** ([A23C 9/14 takes precedence](#); preservation [A23C 3/00](#))
- 17/02 . . containing, or treated with, microorganisms or enzymes
- 19/00 Cheese; Cheese preparations; Making thereof** (cheese substitutes [A23C 20/00](#); casein [A23J 1/20](#))
- 19/02 . . Making cheese curd
- 19/024 . . using continuous procedure
- 19/0245 . . . {with immobilized enzymes or microorganisms}
- 19/028 . . without substantial whey separation from coagulated milk

- 19/0285 . . . {by dialysis or ultrafiltration}
- 19/032 . . characterised by the use of specific microorganisms, or enzymes of microbial origin
- 19/0321 . . . {Propionic acid bacteria}
- 19/0323 . . . {using only lactic acid bacteria, e.g. *Pediococcus* and *Leuconostoc* species; *Bifidobacteria*; Microbial starters in general (using moulds [A23C 19/0682](#))}
- 19/0325 . . . {using yeasts, alone or in combination with lactic acid bacteria or with fungi, without using other bacteria}
- 19/0326 . . . {Rennet produced by fermentation, e.g. microbial rennet; Rennet produced by genetic engineering}
- 19/0328 . . . {Enzymes other than milk clotting enzymes, e.g. lipase, beta-galactosidase}
- 19/04 . . characterised by the use of specific enzymes of vegetable or animal origin ([A23C 19/032](#) takes precedence)
- 19/041 . . . {Proteolytic or milk clotting enzymes from plants or vegetables, e.g. papain, ficin, bromelain}
- 19/043 . . . {Enzymes other than proteolytic enzymes or milk clotting enzymes, e.g. lipase, lysosyme}
- 19/045 . . Coagulation of milk without rennet or rennet substitutes {followed by whey separation}
- 19/0455 . . . {Coagulation by direct acidification without fermentation of the milk, e.g. by chemical or physical means}
- 19/05 . . Treating milk before coagulation; Separating whey from curd ([A23C 19/097](#), [A23C 19/045](#) take precedence)
- 19/051 . . . {Acidifying by combination of acid fermentation and of chemical or physical means}
- 19/052 . . . {Acidifying only by chemical or physical means}
- 19/053 . . . {Enrichment of milk with whey, whey components, substances recovered from separated whey, isolated or concentrated proteins from milk}
- 19/054 . . . {using additives other than acidifying agents, NaCl, CaCl<sub>2</sub>, dairy products, proteins, fats, enzymes or microorganisms}
- 19/055 . . Addition of non-milk fats or non-milk proteins {, polyol fatty acid polyesters or mineral oils}
- 19/06 . . Treating cheese curd after whey separation; Products obtained thereby ([A23C 19/097](#) takes precedence)
- 19/061 . . {Addition of, or treatment with, microorganisms ([A23C 19/0682](#) takes precedence)}
- 19/062 . . . {using only lactic acid bacteria, e.g. *pediococcus*, *leconostoc* or *bifidus* sp., or propionic acid bacteria; Treatment with non-specified acidifying bacterial cultures}
- 19/063 . . {Addition of, or treatment with, enzymes or cell-free extracts of microorganisms}
- 19/064 . . Salting
- 19/068 . . Particular types of cheese
- 19/0682 . . . {Mould-ripened or bacterial surface ripened cheeses}
- 19/0684 . . . {Soft uncured Italian cheeses, e.g. *Mozarella*, *Ricotta*, *Pasta filata* cheese; Other similar stretched cheeses}
- 19/0686 . . . {Cheese from whey, e.g. *mysost*}
- 19/0688 . . . {Hard cheese or semi-hard cheese with or without eyes ([A23C 19/072](#) takes precedence)}
- 19/072 . . . Cheddar type {or similar hard cheeses without eyes}
- 19/076 . . . Soft unripened cheese, e.g. cottage or cream cheese
- 19/0765 . . . . {Addition to the curd of additives other than acidifying agents, dairy products, proteins except gelatine, fats, enzymes, microorganisms, NaCl, CaCl<sub>2</sub> or KCl; Foamed fresh cheese products}
- 19/08 . . . Process cheese preparations; Making thereof, e.g. melting, emulsifying, sterilizing
- 19/081 . . . . {Surface melting}
- 19/082 . . . . Adding substances to the curd before or during melting; Melting salts
- 19/084 . . . . Treating the curd, or adding substances thereto, after melting ([adding non-milk components A23C 19/093](#))
- 19/086 . . Cheese powder; Dried cheese preparations
- 19/09 . . Other cheese preparations; Mixtures of cheese with other foodstuffs ([preservation A23C 19/097](#))
- 19/0904 . . . {Liquid cheese products, e.g. beverages, sauces}
- 19/0908 . . . {Sliced cheese; Multilayered or stuffed cheese; Cheese loaves}
- 19/0912 . . . {Fried, baked or roasted cheese products, e.g. cheese cakes; Foamed cheese products, e.g. soufflés; Expanded cheese in solid form}
- 19/0917 . . . {Addition, to cheese or curd, of whey, whey components, substances recovered from separated whey, isolated or concentrated proteins from milk}
- 19/0921 . . . {Addition, to cheese or curd, of minerals, including organic salts thereof, trace elements, amino acids, peptides, protein hydrolysates, nucleic acids, yeast extracts or autolysate, vitamins or derivatives of these compounds}
- 19/0925 . . . {Addition, to cheese or curd, of colours, synthetic flavours or artificial sweeteners, including sugar alcohols}
- 19/093 . . . Addition of non-milk fats or non-milk proteins {, polyol fatty acid polyesters or mineral oils}
- 19/097 . . Preservation
- 19/0973 . . {Pasteurisation; Sterilisation; Hot packaging}
- 19/0976 . . {Freezing; Treating cheese in frozen state; Thawing of frozen cheese}
- 19/10 . . Addition of preservatives {(enzymes or microorganisms, see [A23C 19/032](#), [A23C 19/04](#), [A23C 19/061](#) and [A23C 19/063](#))}
- 19/105 . . . {Inorganic compounds; Inert or noble gases; Carbon dioxide}
- 19/11 . . . of antibiotics {or bacteriocins}
- 19/14 . . Treating cheese after having reached its definite form, e.g. ripening, smoking ([preservation A23C 19/097](#))
- 19/16 . . Covering the cheese surface, e.g. with paraffin wax
- 19/163 . . . {with a non-edible liquid or semi-liquid coating, e.g. wax, polymer dispersions (in combination with an edible coating [A23C 19/16](#))}

- 19/166 . . . {with non-edible preformed foils, films or bandages}
- 20/00 Cheese substitutes** ([A23C 19/055](#), [A23C 19/093](#) take precedence)
- 20/005 . {mainly containing proteins from pulses or oilseeds, e.g. soy curd, tofu}
- 20/02 . containing neither milk components, nor caseinate, nor lactose, as sources of fats, proteins or carbohydrates
- 20/025 . . {mainly containing proteins from pulses or oilseeds, e.g. soy curd, tofu}
- 21/00 Whey; Whey preparations** ([A23C 1/00](#), [A23C 3/00](#), [A23C 9/14](#) take precedence)
- 21/02 . containing, or treated with, microorganisms or enzymes
- 21/023 . . {Lactose hydrolysing enzymes, e.g. lactase, B-galactosidase}
- 21/026 . . {containing, or treated only with, lactic acid producing bacteria, bifidobacteria or propionic acid bacteria}
- 21/04 . containing non-milk components as source of fats or proteins
- 21/06 . Mixtures of whey with milk products or milk components
- 21/08 . containing other organic additives, e.g. vegetable or animal products
- 21/10 . containing inorganic additives
- 23/00 Other dairy products**
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- 2200/00 Special features**
- 2210/00 Physical treatment of dairy products** (not used, see subgroups)
- 2210/05 . Conventional drying followed by fluidised bed drying; Fluidised bed drying at the bottom of a spray-drier
- 2210/10 . General processes or apparatus not classified in [A23C 3/0375](#) for direct contact of a falling film of liquid with steam
- 2210/15 . High pressure treatment
- 2210/20 . Treatment using membranes, including sterile filtration (not used, see subgroups)
- 2210/202 . . Treatment of milk with a membrane before or after fermentation of the milk, e.g. UF of diafiltration
- 2210/204 . . Use of a membrane during fermentation of milk
- 2210/206 . . Membrane filtration of a permeate obtained by ultrafiltration, nanofiltration or microfiltration
- 2210/208 . . Removal of bacteria by membrane filtration; Sterile filtration of milk products
- 2210/25 . Separating and blending (not used, see subgroups)
- 2210/252 . . Separating a milk product in at least two fractions followed by treatment of at least one of the fractions and remixing at least part of the two fractions
- 2210/254 . . Cream is separated from milk, one of the fractions is treated and at least part of the cream is remixed with the milk
- 2210/256 . . Removal or separation of bacteria, or a fraction containing bacteria, by centrifugation; Bactofugation
- 2210/258 . . Separation or recuperation of fats or lipids from whey or whey products
- 2210/30 . Whipping, foaming, frothing or aerating dairy products
- 2210/40 . Microencapsulation; Encapsulation of particles
- 2220/00 Biochemical treatment** (not used, see subgroups below)
- 2220/10 . Enzymatic treatment (not used, see subgroups below)
- 2220/102 . . Enzymatic treatment in diffusion reactors, e.g. membrane reactors, without immobilisation of the enzyme
- 2220/104 . . Enzymatic treatment with immobilised enzymes
- 2220/106 . . Enzymatic treatment with enzymes in microgranules or soluble matrices; Entrapment of enzymes or making enzyme aggregates for delayed solubility; Complexation of enzymes
- 2220/20 . Treatment with microorganisms (not used, see subgroups below)
- 2220/202 . . Genetic engineering of microorganisms used in dairy technology
- 2220/204 . . Use of bacteria which are encapsulated, entrapped or immobilised; Fermentation with these bacteria
- 2220/206 . . Slime forming bacteria; Exopolysaccharide or thickener producing bacteria, ropy cultures, so-called filament strains
- 2220/208 . . Fermentation of skim milk or milk and its addition in a small quantity to unfermented skim milk or milk, e.g. cheese milk; Addition of yoghurt to cheese milk
- 2230/00 Aspects relating to animal feed or genotype** (not used, see subgroups below)
- 2230/05 . Milk or milk products from transgenic animals
- 2230/10 . Animal milk with modified composition due to a specific feed
- 2230/15 . Animal milk with modified composition due to manipulation of the animal, e.g. animal milk comprising antibodies, selection of animals having specific genotypes
- 2240/00 Use or particular additives or ingredients** (not used, see subgroups below)
- 2240/05 . Milk products enriched with milk fat globule membrane
- 2240/10 . Dairy products containing sterols or sterol derivatives
- 2240/15 . Use of plant extracts, including purified and isolated derivatives thereof, as ingredient in dairy products
- 2240/20 . Inert gas treatment, using, e.g. noble gases or CO<sub>2</sub>, including CO<sub>2</sub> liberated by chemical reaction; Carbonation of milk products
- 2250/00 Particular aspects related to cheese** (not used, see subgroups below)
- 2250/05 . Emulsifying cheese (not used, see subgroups below)
- 2250/052 . . Emulsifying cheese below melting or pasteurisation temperature, e.g. below about 60 degrees
- 2250/054 . . Emulsifying cheese without melting or emulsifying salts, e.g. citrates or (poly-) phosphates or alkali metal (bi-) carbonates or sodium or calcium salts of organic acids
- 2250/10 . Cheese characterised by a specific form
- 2250/15 . Shredded non-dried cheese

- 2250/20 . Compacting shredded or ground cheese other than curd or small cheese pieces without melting
- 2250/25 . Cheese with fat content lower than 0.5%, including cheese from skim milk, i.e. no addition of fats
- 2250/30 . Blue veined cheeses, e.g. Roquefort, Gorgonzola, Stilton
- 2250/35 . Smoking of cheese or curd; Smoked cheeses; Smoking of milk components before conversion to cheese
- 2250/40 . Breaded cheese products, e.g. coating with a batter mix or other adhesive material followed by breading with crumbs or other particulate coating
- 2250/45 . Cheese from buttermilk
- 2260/00** **Particular aspects or types of dairy products (not used, see subgroups below)**
- 2260/05 . Concentrated yoghurt products, e.g. labneh, yoghurt cheese, non-dried non-frozen solid or semi-solid yoghurt products other than spreads; Strained yoghurt; Removal of whey from yoghurt
- 2260/10 . Spreadable dairy products (not used, see subgroups below)
- 2260/102 . . Spreadable fermented dairy product; Dairy spreads prepared by fermentation or containing microorganisms; Cultured spreads; Dairy spreads containing fermented milk products
- 2260/104 . . Water-continuous butterlike spreads; spreads from cream prepared without phase inversion
- 2260/15 . Frozen dairy products (not used, see subgroups below)
- 2260/152 . . Frozen fermented milk products, e.g. frozen yoghurt or yoghurt ice cream; Frozen milk products containing living microorganisms
- 2260/154 . . Frozen non-fermented milk products
- 2260/20 . Dry foaming beverage creamer or whitener, e.g. gas injected or containing carbonation or foaming agents, for causing foaming when reconstituted
- 2260/25 . Dairy compositions providing for tooth protective effects, e.g. anticariogenic effects
- 2270/00** **Aspects relating to packaging (not used, see subgroups below)**
- 2270/05 . Gelled or liquid milk product, e.g. yoghurt, cottage cheese or pudding being one of the separate layers of a multilayered soft or liquid food product
- 2270/10 . Dairy products filled into pressurised containers with dispensing means for atomisation or foaming
- 2270/15 . Separate packaging or storing of foodstuffs or ingredients to be mixed prior to use or serving, e.g. storing into separate compartments of a single container or into separate containers