

**CPC****COOPERATIVE PATENT CLASSIFICATION****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****A23C 1/00**

**Concentration, evaporation or drying** (products obtained thereby [A23C 9/00](#) ; making butter powder [A23C 15/14](#) , cheese powder [A23C 19/086](#) ; evaporating in general [B01D 1/00](#))

- [A23C 1/01](#) . Drying in thin layers
- [A23C 1/03](#) . . on drums or rollers
- [A23C 1/04](#) . by spraying into a gas stream
- [A23C 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}
- [A23C 1/05](#) . . combined with agglomeration {granulation or coating}
- [A23C 1/06](#) . Concentration by freezing out the water
- [A23C 1/08](#) . . Freeze-drying
- [A23C 1/10](#) . Foam drying ([A23C 1/04](#) , [A23C 1/08](#) take precedence)
- [A23C 1/12](#) . Concentration by evaporation
- [A23C 1/14](#) . combined with other treatment ([A23C 3/00](#) , [A23C 9/00](#) take precedence)
- [A23C 1/16](#) . . using additives

**A23C 3/00**

**Preservation of milk or milk preparations** (of cream [A23C 13/08](#) ; of butter [A23C 15/18](#) ; of cheese [A23C 19/097](#))

- [A23C 3/005](#) . {Storing or packaging in a vacuum or in inert or sterile gaseous atmosphere (impregnation with inert gases [A23C 9/1524](#))}
- [A23C 3/02](#) . by heating ([A23C 3/07](#) takes precedence)

- A23C 3/023 . . . in packages
- A23C 3/027 . . . progressively transported through the apparatus
- A23C 3/03 . . . the materials being loose unpacked
- A23C 3/031 . . . {Apparatus through which the material is transported non progressively; Temperature-maintaining holding tanks or vats with discontinuous filling or discharge}
- A23C 3/033 . . . and progressively transported through the apparatus
- A23C 3/0332 . . . . {in contact with multiple heating plates}
- A23C 3/0335 . . . . {the milk being heated by electrical or mechanical means, e.g. by friction}
- A23C 3/0337 . . . . {the milk flowing through with indirect heat exchange, containing rotating elements, e.g. for improving the heat exchange}
- A23C 3/037 . . . . in direct contact with the heating medium, e.g. steam
- A23C 3/0375 . . . . . {by pulverisation of the milk, including free falling film}
- A23C 3/04 . . by freezing or cooling
- A23C 3/045 . . {Freezing in loose unpacked form}
- A23C 3/05 . . in packages
- A23C 3/055 . . . {Freezing in packages}
- A23C 3/07 . . by irradiation, e.g. by microwaves; {by sonic or ultrasonic waves}
- A23C 3/073 . . {by sonic or ultrasonic waves}
- A23C 3/076 . . {by ultraviolet or infrared radiation}
- A23C 3/08 . . by addition of preservatives (addition of micro-organisms or enzymes [A23C 9/12](#) , of other substances [A23C 9/152](#))
- A23C 3/085 . . {Inorganic compounds, e.g. lactoperoxidase - H<sub>2</sub>O<sub>2</sub> systems}

**A23C 7/00****Other dairy technology**

- A23C 7/02 . . Chemical cleaning of dairy apparatus (cleaning in general [B08B](#) , e.g. [B08B 3/08](#)); Use of sterilisation methods therefor (sterilisation methods per se [A61L](#))
- A23C 7/04 . . Removing unwanted substances {other than lactose or milk proteins} from milk (by filtering [A01J 9/02](#) , [A01J 11/06](#))
- A23C 7/043 . . {using chemicals in liquid or solid state, e.g. flocculating, adsorbing or extracting agents ([A23C 9/146](#) and [A23C 9/148](#) take precedence)}
- A23C 7/046 . . {by centrifugation without using chemicals, e.g. bacto-fugation; re-use of bacto-fugate}

**Dairy products; Processes specially adapted therefor****A23C 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, mixtures for preparation of ice-cream [A23G 9/00](#) ; puddings, dry powder puddings [A23L 1/187](#))

- A23C 9/005 . . {Condensed milk; Sugared condensed milk ([A23C 1/06](#) and [A23C 1/12](#) take precedence)}
- A23C 9/12 . . Fermented milk preparations; Treatment using micro-organisms or enzymes (whey preparations [A23C 21/00](#))

- A23C 9/1203      ..      {Addition of, or treatment with, enzymes or micro-organisms other than lactobacteriaceae}
- A23C 9/1206      ...      {Lactose hydrolysing enzymes, e.g. lactase, beta-galactosidase}
- A23C 9/1209      ...      {Proteolytic or milk coagulating enzymes, e.g. trypsin}
- A23C 9/1213      ...      {Oxidation or reduction enzymes, e.g. peroxidase, catalase, dehydrogenase}
- A23C 9/1216      ...      {Other enzymes}
- A23C 9/122      ..      {Apparatus for preparing or treating fermented milk products}
- A23C 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}
- A23C 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}
- A23C 9/123      ..      using only micro-organisms of the genus lactobacteriaceae; Yoghurt ([A23C 9/13](#) takes precedence)
- A23C 9/1232      ...      {in powdered, granulated or dried solid form}
- A23C 9/1234      ...      {characterised by using a Lactobacillus sp. other than Lactobacillus Bulgaricus, including Bifidobacterium sp.}
- A23C 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)}
- A23C 9/1238      ...      {using specific L. bulgaricus or S. thermophilus micro-organisms; 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}
- A23C 9/127      ..      using micro-organisms of the genus lactobacteriaceae and other micro-organisms or enzymes e.g. kefir, koumiss ([A23C 9/13](#) takes precedence)
- A23C 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}
- A23C 9/13      ..      using additives
- A23C 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}
- A23C 9/1315      ...      {Non-milk proteins or fats; Seeds, pulses, cereals or soja; Fatty acids, phospholipids, mono- or diglycerides or derivatives therefrom; Egg products}
- A23C 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}
- A23C 9/133      ...      Fruit or vegetables
- A23C 9/137      ...      Thickening substances
- A23C 9/14      .      in which the chemical composition of the milk is modified by non-chemical treatment

**NOTE**

A23C 9/14  
(continued)

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]

- A23C 9/142 .. by dialysis, reverse osmosis or ultrafiltration ([A23C 9/144](#) takes precedence)
- A23C 9/1422 ... {by ultrafiltration, microfiltration or diafiltration of milk, e.g. for separating protein and lactose; Treatment of the UF permeate}
- A23C 9/1425 ... {by ultrafiltration, microfiltration or diafiltration of whey, e.g. treatment of the UF permeate}
- A23C 9/1427 ... {by dialysis, reverse osmosis or hyperfiltration, e.g. for concentrating or desalting}
- A23C 9/144 .. by electrical means, e.g. electrodialysis
- A23C 9/146 .. by ion-exchange
- A23C 9/1465 ... {Chromatographic separation of protein or lactose fraction; Adsorption of protein or lactose fraction followed by elution}
- A23C 9/148 .. by molecular sieve or gel filtration {or chromatographic treatment ([A23C 9/1465](#) takes precedence)}
- A23C 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](#))
- A23C 9/1504 .. {Spreads, semi-solid products}
- A23C 9/1508 .. {Dissolving or reconstituting milk powder; Reconstitution of milk concentrate with water; Standardisation of fat content of milk}
- A23C 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}
- A23C 9/1516 .. {Enrichment or recombination of milk (excepted whey) with milk fat, cream of butter without using isolated or concentrated milk proteins}
- A23C 9/152 . containing additives (fermented milk preparations containing additives [A23C 9/13](#))
- A23C 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}
- A23C 9/1524 .. {Inert gases, noble gases, oxygen, aerosol gases; Processes for foaming}
- A23C 9/1526 .. {Amino acids; Peptides; Protein hydrolysates; Nucleic acids; Derivatives thereof}
- A23C 9/1528 .. {Fatty acids; Mono- or diglycerides; Petroleum jelly; Paraffine; Phospholipids; Derivatives thereof}
- A23C 9/154 .. containing thickening substances, eggs or cereal preparations; Milk gels
- A23C 9/1542 ... {Acidified milk products containing thickening agents or acidified milk gels, e.g. acidified by fruit juices (fermentation [A23C 9/12](#))}
- A23C 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}
- A23C 9/1546 .... {in powdered, granulated or dried solid form}
- A23C 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}

- A23C 9/156 . . Flavoured milk preparations; {Addition of fruits, vegetables, sugars, sugar alcohols, sweeteners } (A23C 9/154 takes precedence)
- A23C 9/1565 . . . {Acidified milk products, e.g. milk flavoured with fruit juices (A23C 9/1542 takes precedence; fermentation A23C 9/12)}
- A23C 9/158 . . containing vitamins or antibiotics
- A23C 9/1585 . . . {Antibiotics; Bacteriocins; Fungicides from micro-organisms}
- A23C 9/16 . Agglomerating or granulating milk powder; Making instant milk powder; Products obtained thereby (A23C 1/05 , A23C 9/18 take precedence)
- A23C 9/18 . Milk in dried and compressed or semi-solid form
- A23C 9/20 . Dietetic milk products not covered by groups A23C 9/12 to A23C 9/18
- A23C 9/203 . . {containing bifidus-active substances, e.g. lactulose; containing oligosaccharides}
- A23C 9/206 . . {Colostrum; Human milk}
  
- A23C 11/00** **Milk substitutes, e.g. coffee whitener compositions** (cheese substitutes A23C 20/00 ; butter substitutes A23D ; cream substitutes A23L 1/19)
- A23C 11/02 . containing at least one non-milk component as source of fats or proteins (A23C 19/055 , A23C 21/04 take precedence)
- A23C 11/04 . . containing non-milk fats but no non-milk proteins (A23C 11/08 , A23C 11/10 take precedence)
- A23C 11/045 . . . {obtained by mixing the non-fat components in powdered form with the fats or by dry mixing of the components}
- A23C 11/06 . . containing non-milk proteins (A23C 11/08 , A23C 11/10 take precedence)
- A23C 11/065 . . . {Microbial proteins, inactivated yeast or animal proteins}
- A23C 11/08 . . containing caseinates but no other milk proteins nor milk fats
- A23C 11/10 . . containing or not lactose but no other milk components as source of fats, carbohydrates or proteins, e.g. soy milk
- A23C 11/103 . . . {containing only proteins from pulses, oilseeds or nuts, e.g. soy or nut milk}
- A23C 11/106 . . . . {Addition of, or treatment with, micro-organisms (A23C 20/025 and A23L 1/2118 take precedence)}
  
- A23C 13/00** **Cream; Cream preparations; Making thereof** (coffee whitener compositions A23C 11/00 ; cream substitutes A23L 1/19)
- A23C 13/08 . Preservation
- A23C 13/085 . . {Freezing; Subsequent melting}
- A23C 13/10 . . by addition of preservatives (A23C 13/14 , A23C 13/16 take precedence)
- A23C 13/12 . Cream preparations (ice-cream A23G 9/00)
- A23C 13/125 . . {in powdered, granulated or solid form}
- A23C 13/14 . . containing milk products or {non-fat}milk components
- A23C 13/16 . . containing, or treated with, micro-organisms, enzymes, or antibiotics; Sour cream
- A23C 13/165 . . . {Making sour cream by chemical or physical means only}
  
- A23C 15/00** **Butter; Butter preparations; Making thereof** (butter substitutes A23D)
- A23C 15/02 . Making thereof
- A23C 15/04 . . from butter oil or anhydrous butter

- A23C 15/06 . . Treating cream {or milk} prior to phase inversion
- A23C 15/065 . . . {Addition of a treatment with micro-organisms or enzymes; Addition of cultured milk products}
- A23C 15/12 . Butter preparations
- A23C 15/123 . . {Addition of micro-organisms or cultured milk products; Addition of enzymes; Addition of starter cultures other than destillates}
- A23C 15/126 . . {Butter containing a minority of vegetable oils; Enrichment of butter with fatty acids}
- A23C 15/14 . . Butter powder; Butter oil, i.e. melted butter, e.g. ghee; {Anhydrous butter}
- A23C 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}
- A23C 15/16 . . Butter having reduced fat content
- A23C 15/165 . . . {prepared by addition of microorganisms; Cultured spreads}
- A23C 15/18 . Preservation
- A23C 15/20 . . by addition of preservatives {or antioxidants}
- A23C 17/00** **Buttermilk; Buttermilk preparations** ([A23C 9/14](#) takes precedence; preservation [A23C 3/00](#))
- A23C 17/02 . containing, or treated with, micro-organisms or enzymes
- A23C 19/00** **Cheese; Cheese preparations; Making thereof** (cheese substitutes [A23C 20/00](#) ; casein [A23J 1/20](#))
- A23C 19/02 . Making cheese curd
- A23C 19/024 . . using continuous procedure
- A23C 19/0245 . . . {with immobilized enzymes or micro-organisms}
- A23C 19/028 . . without substantial whey separation from coagulated milk
- A23C 19/0285 . . . {by dialysis or ultrafiltration}
- A23C 19/032 . . characterised by the use of specific micro-organisms, or enzymes of microbial origin
- A23C 19/0321 . . . {Propionic acid bacteria}
- A23C 19/0323 . . . {using only lactic acid bacteria, e.g. *Pediococcus* and *Leuconostoc* species; *Bifidobacteria*; Microbial starters in general ([using moulds A23C 19/0682](#))}
- A23C 19/0325 . . . {using yeasts, alone or in combination with lactic acid bacteria or with fungi, without using other bacteria}
- A23C 19/0326 . . . {Rennet produced by fermentation e.g. microbial rennet; Rennet produced by genetic engineering}
- A23C 19/0328 . . . {Enzymes other than milk clotting enzymes, e.g. lipase, beta-galactosidase}
- A23C 19/04 . . characterised by the use of specific enzymes of vegetable or animal origin ([A23C 19/032](#) takes precedence)
- A23C 19/041 . . . {Proteolytic or milk clotting enzymes from plants or vegetables, e.g. papain, ficin, bromelain}
- A23C 19/043 . . . {Enzymes other than proteolytic enzymes or milk clotting enzymes, e.g. lipase, lysosyme}
- A23C 19/045 . . Coagulation of milk without rennet or rennet substitutes {followed by whey separation}



- A23C 19/0455 . . . {Coagulation by direct acidification without fermentation of the milk, e.g. by chemical or physical means}
- A23C 19/05 . . Treating milk before coagulation; Separating whey from curd ([A23C 19/097](#), {[A23C 19/045](#) }take precedence)
- A23C 19/051 . . . {Acidifying by combination of acid fermentation and of chemical or physical means}
- A23C 19/052 . . . {Acidifying only by chemical or physical means}
- A23C 19/053 . . . {Enrichment of milk with whey, whey components, substances recovered from separated whey, isolated or concentrated proteins from milk}
- A23C 19/054 . . . {using additives other than acidifying agents, NaCl, CaCl<sub>2</sub>, dairy products, proteins, fats, enzymes or micro-organisms}
- A23C 19/055 . . Addition of non-milk fats or non-milk proteins, {polyol fatty acid polyesters or mineral oils}
- A23C 19/06 . Treating cheese curd after whey separation; Products obtained thereby ([A23C 19/097](#) takes precedence)
- A23C 19/061 . . {Addition of, or treatment with, micro-organisms ([A23C 19/0682](#) takes precedence)}
- A23C 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}
- A23C 19/063 . . {Addition of, or treatment with, enzymes or cell-free extracts of micro-organisms}
- A23C 19/064 . . Salting
- A23C 19/068 . . Particular types of cheese
- A23C 19/0682 . . . {Mould-ripened or bacterial surface ripened cheeses}
- A23C 19/0684 . . . {Soft uncured Italian cheeses, e.g. Mozzarella, Ricotta, Pasta filata cheese; Other similar stretched cheeses}
- A23C 19/0686 . . . {Cheese from whey, e.g. mysost}
- A23C 19/0688 . . . {Hard cheese or semi-hard cheese with or without eyes ([A23C 19/072](#) takes precedence)}
- A23C 19/072 . . . Cheddar type {or similar hard cheeses without eyes}
- A23C 19/076 . . . Soft unripened cheese, e.g. cottage or cream cheese
- A23C 19/0765 . . . . {Addition to the curd of additives other than acidifying agents, dairy products, proteins except gelatine, fats, enzymes, micro-organisms, NaCl, CaCl<sub>2</sub> or KCl; Foamed fresh cheese products}
- A23C 19/08 . . . Process cheese preparations; Making thereof, e.g. melting, emulsifying, sterilizing
- A23C 19/081 . . . . {Surface melting}
- A23C 19/082 . . . . Adding substances to the curd before or during melting; Melting salts
- A23C 19/084 . . . . Treating the curd, or adding substances thereto, after melting ([adding non-milk components A23C 19/093](#))
- A23C 19/086 . . Cheese powder; Dried cheese preparations
- A23C 19/09 . . Other cheese preparations; Mixtures of cheese with other foodstuffs ([preservation A23C 19/097](#))
- A23C 19/0904 . . . {Liquid cheese products, e.g. beverages, sauces}
- A23C 19/0908 . . . {Sliced cheese; Multilayered or stuffed cheese; Cheese loaves}

A23C 19/0912	...	{Fried, baked or roasted cheese products, e.g. cheese cakes; Foamed cheese products, e.g. souffl�s; Expanded cheese in solid form}
A23C 19/0917	...	{Addition, to cheese or curd, of whey, whey components, substances recovered from separated whey, isolated or concentrated proteins from milk}
A23C 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}
A23C 19/0925	...	{Addition, to cheese or curd, of colours, synthetic flavours or artificial sweeteners, including sugar alcohols}
A23C 19/093	...	Addition of non-milk fats or non-milk proteins, {polyol fatty acid polyesters or mineral oils}
A23C 19/097	.	Preservation
A23C 19/0973	..	{Pasteurisation; Sterilisation; Hot packaging}
A23C 19/0976	..	{Freezing; Treating cheese in frozen state; Thawing of frozen cheese}
A23C 19/10	..	Addition of preservatives {(enzymes or micro-organisms, see <a href="#">A23C 19/032</a> , <a href="#">A23C 19/04</a> , <a href="#">A23C 19/061</a> and <a href="#">A23C 19/063</a> )}
A23C 19/105	...	{Inorganic compounds; Inert or noble gases; Carbon dioxide}
A23C 19/11	...	of antibiotics {or bacteriocins}
A23C 19/14	.	Treating cheese after having reached its definite form, e.g. ripening, smoking ( <a href="#">preservation A23C 19/097</a> )
A23C 19/16	..	Covering the cheese surface, e.g. with paraffin wax
A23C 19/163	...	{with a non-edible liquid or semi-liquid coating, e.g. wax, polymer dispersions (in combination with an edible coating <a href="#">A23C 19/16</a> )}
A23C 19/166	...	{with non-edible preformed foils, films or bandages}
<b>A23C 20/00</b>		<b>Cheese substitutes</b> ( <a href="#">A23C 19/055</a> , <a href="#">A23C 19/093</a> take precedence)
A23C 20/005	.	{mainly containing proteins from pulses or oilseeds, e.g. soy curd, tofu}
A23C 20/02	.	containing neither milk components, nor caseinate, nor lactose, as sources of fats, proteins or carbohydrates
A23C 20/025	..	{mainly containing proteins from pulses or oilseeds, e.g. soy curd, tofu}
<b>A23C 21/00</b>		<b>Whey; Whey preparations</b> ( <a href="#">A23C 1/00</a> , <a href="#">A23C 3/00</a> , <a href="#">A23C 9/14</a> take precedence)
A23C 21/02	.	containing, or treated with, micro-organisms or enzymes
A23C 21/023	..	{Lactose hydrolysing enzymes, e.g. lactase, B-galactosidase}
A23C 21/026	..	{containing, or treated only with, lactic acid producing bacteria, bifidobacteria or propionic acid bacteria}
A23C 21/04	.	containing non-milk components as source of fats or proteins
A23C 21/06	.	Mixtures of whey with milk products or milk components
A23C 21/08	.	containing other organic additives, e.g. vegetable or animal products
A23C 21/10	.	containing inorganic additives
<b>A23C 23/00</b>		<b>Other dairy products</b>

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**A23C 2200/00      Special features**



**A23C 2210/00****Physical treatment of dairy products (not used, see subgroups)**

A23C 2210/05

- Conventional drying followed by fluidised bed drying; Fluidised bed drying at the bottom of a spray-drier

A23C 2210/10

- General processes or apparatus not classified in [A23C 3/0375](#) for direct contact of a falling film of liquid with steam

A23C 2210/15

- High pressure treatment

A23C 2210/20

- Treatment using membranes, including sterile filtration (not used, see subgroups)

A23C 2210/202

- Treatment of milk with a membrane before or after fermentation of the milk, e.g. UF or diafiltration

A23C 2210/204

- Use of a membrane during fermentation of milk

A23C 2210/206

- Membrane filtration of a permeate obtained by ultrafiltration, nanofiltration or microfiltration

A23C 2210/208

- Removal of bacteria by membrane filtration; Sterile filtration of milk products

A23C 2210/25

- Separating and blending (not used, see subgroups)

A23C 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

A23C 2210/254

- Cream is separated from milk, one of the fractions is treated and at least part of the cream is remixing with the milk

A23C 2210/256

- Removal or separation of bacteria, or a fraction containing bacteria, by centrifugation; Bactofugation

A23C 2210/258

- Separation or recuperation of fats or lipids from whey or whey products

A23C 2210/30

- Whipping, foaming, frothing or aerating dairy products

A23C 2210/40

- Microencapsulation; Encapsulation of particles

**A23C 2220/00****Biochemical treatment (not used, see subgroups below)**

A23C 2220/10

- Enzymatic treatment (not used, see subgroups below)

A23C 2220/102

- Enzymatic treatment in diffusion reactors, e.g. membrane reactors, without immobilisation of the enzyme

A23C 2220/104

- Enzymatic treatment with immobilised enzymes

A23C 2220/106

- Enzymatic treatment with enzymes in microgranules or soluble matrices; Entrapment of enzymes or making enzyme aggregates for delayed solubility; Complexation of enzymes

A23C 2220/20

- Treatment with micro-organisms (not used, see subgroups below)

A23C 2220/202

- Genetic engineering of microorganisms used in dairy technology

A23C 2220/204

- Use of bacteria which are encapsulated, entrapped or immobilised; Fermentation with these bacteria

A23C 2220/206

- Slime forming bacteria; Exopolysaccharide or thickener producing bacteria, ropy cultures, so-called filant strains

A23C 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

**A23C 2230/00****Aspects relating to animal feed or genotype (not used, see subgroups below)**

A23C 2230/05

- Milk or milk products from transgenic animals

A23C 2230/10

- Animal milk with modified composition due to a specific feed

- A23C 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
  
- A23C 2240/00**      **Use or particular additives or ingredients (not used, see subgroups below)**
- A23C 2240/05
  - . Milk products enriched with milk fat globule membrane
- A23C 2240/10
  - . Dairy products containing sterols or sterol derivatives
- A23C 2240/15
  - . Use of plant extracts, including purified and isolated derivatives thereof, as ingredient in dairy products
- A23C 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
  
- A23C 2250/00**      **Particular aspects related to cheese (not used, see subgroups below)**
- A23C 2250/05
  - . Emulsifying cheese (not used, see subgroups below)
- A23C 2250/052
  - . . Emulsifying cheese below melting or pasteurisation temperature, e.g. below about 60 degrees
- A23C 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
- A23C 2250/10
  - . Cheese characterised by a specific form
- A23C 2250/15
  - . Shredded non-dried cheese
- A23C 2250/20
  - . Compacting shredded or ground cheese other than curd or small cheese pieces without melting
- A23C 2250/25
  - . Cheese with fat content lower than 0.5%, including cheese from skim milk, i.e. no addition of fats
- A23C 2250/30
  - . Blue veined cheeses, e.g. Roquefort, Gorgonzola, Stilton
- A23C 2250/35
  - . Smoking of cheese or curd; Smoked cheeses; Smoking of milk components before conversion to cheese
- A23C 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
- A23C 2250/45
  - . Cheese from buttermilk
  
- A23C 2260/00**      **Particular aspects or types of dairy products (not used, see subgroups below)**
- A23C 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
- A23C 2260/10
  - . Spreadable dairy products (not used, see subgroups below)
- A23C 2260/102
  - . . Spreadable fermented dairy product; Dairy spreads prepared by fermentation or containing microorganisms; Cultured spreads; Dairy spreads containing fermented milk products
- A23C 2260/104
  - . . Water-continuous butterlike spreads; spreads from cream prepared without phase inversion
- A23C 2260/15
  - . Frozen dairy products (not used, see subgroups below)
- A23C 2260/152
  - . . Frozen fermented milk products e.g. frozen yoghurt or yoghurt ice cream; Frozen milk products containing living microorganisms.
- A23C 2260/154
  - . . Frozen non-fermented milk products

A23C 2260/20

- Dry foaming beverage creamer or whitener, e.g. gas injected or containing carbonation or foaming agents, for causing foaming when reconstituted

A23C 2260/25

- Dairy compositions providing for tooth protective effects, e.g. anticariogenic effects

**A23C 2270/00**

**Aspects relating to packaging (not used, see subgroups below)**

A23C 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

A23C 2270/10

- Dairy products filled into pressurised containers with dispensing means for atomisation or foaming

A23C 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