

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.

Guidance heading: **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 - H₂O₂ 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. bactofugation; re-use of bactofugate }

Guidance heading: **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

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 natrium or kalium; 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, CaCl₂, 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 ₂ 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 A23C 19/032 , A23C 19/04 , A23C 19/061 and A23C 19/063) }
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 (preservation A23C 19/097)
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 A23C 19/16) }
A23C 19/166	... { with non-edible preformed foils, films or bandages }
A23C 20/00	Cheese substitutes (A23C 19/055 , A23C 19/093 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 }
A23C 21/00	Whey; Whey preparations (A23C 1/00 , A23C 3/00 , A23C 9/14 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
A23C 23/00	Other dairy products
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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 of 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 remixed 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 CO₂, including CO₂ 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