

CPC COOPERATIVE PATENT CLASSIFICATION

A HUMAN NECESSITIES

FOODSTUFFS; TOBACCO

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

(NOTE omitted)

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

WARNING

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

- | | | | |
|-------|--|-------|--|
| 2/00 | <p>Preservation of foods or foodstuffs, in general</p> <p><u>NOTE</u></p> <p>This group <u>covers</u> 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.</p> <p><u>WARNING</u></p> <p>Group A23B 2/00 is impacted by reclassification into groups A23B 80/00, A23B 85/00 and A23B 90/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p> | 2/05 | <p>• by heating using irradiation or electric treatment (drying or kilning A23B 2/90)</p> <p><u>WARNING</u></p> <p>Group A23B 2/05 is impacted by reclassification into groups A23B 80/00, A23B 85/00 and A23B 90/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p> |
| 2/001 | <p>• {Details of apparatus, e.g. pressure feed valves or for transport, or loading or unloading manipulation}</p> <p><u>WARNING</u></p> <p>Group A23B 2/001 is impacted by reclassification into groups A23B 80/00, A23B 85/00 and A23B 90/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p> | 2/055 | <p>• • {with infrared rays}</p> <p><u>WARNING</u></p> <p>Group A23B 2/055 is impacted by reclassification into groups A23B 80/00, A23B 85/00 and A23B 90/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p> |
| 2/003 | <p>• {Control or safety devices for sterilisation or pasteurisation systems}</p> <p><u>WARNING</u></p> <p>Group A23B 2/003 is impacted by reclassification into groups A23B 80/00, A23B 85/00 and A23B 90/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p> | 2/08 | <p>• • using microwaves or dielectric heating</p> <p><u>WARNING</u></p> <p>Group A23B 2/08 is impacted by reclassification into groups A23B 80/00, A23B 85/00 and A23B 90/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p> |
| 2/10 | <p>• by treatment with pressure variation, shock, acceleration or shear stress</p> <p><u>WARNING</u></p> <p>Group A23B 2/10 is impacted by reclassification into groups A23B 80/00, A23B 85/00 and A23B 90/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p> | 2/10 | <p>• by treatment with pressure variation, shock, acceleration or shear stress</p> <p><u>WARNING</u></p> <p>Group A23B 2/10 is impacted by reclassification into groups A23B 80/00, A23B 85/00 and A23B 90/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p> |

2/103 . . {using sub- or super-atmospheric pressures, or pressure variations transmitted by a liquid or gas}

WARNING

Group [A23B 2/103](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/20 . . by heating materials in packages which are progressively transported, continuously or stepwise, through the apparatus

WARNING

Group [A23B 2/20](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/203 . . {with packages moving on the spot while being transported}

WARNING

Group [A23B 2/203](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/205 . . {with packages on a drum with horizontal axis (with packages moving on the spot while being transported [A23B 2/203](#))}

WARNING

Group [A23B 2/205](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/2055 . . . {transported in a hydrostatic chamber}

WARNING

Group [A23B 2/2055](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/22 . . with packages on endless chain or band conveyors {(with packages moving on the spot while being transported [A23B 2/203](#))}

WARNING

Group [A23B 2/22](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/225 . . . {transported in a hydrostatic chamber}

WARNING

Group [A23B 2/225](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/25 . . with packages transported along a helical path {(with packages moving on the spot while being transported [A23B 2/203](#))}

WARNING

Group [A23B 2/25](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/255 . . . {transported in a hydrostatic chamber}

WARNING

Group [A23B 2/255](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/28 . . with packages on a revolving platform {(with packages moving on the spot while being transported [A23B 2/203](#))}

WARNING

Group [A23B 2/28](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/285 . . . {transported in a hydrostatic chamber}

WARNING

Group [A23B 2/285](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 2/30 . . by heating materials in packages which are not progressively transported through the apparatus

WARNING

Group [A23B 2/30](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/425 . . . {in solid state}

WARNING

Group [A23B 2/425](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.
- 2/33 . . with packages in intercommunicating chambers through which the heating medium is circulated

WARNING

Group [A23B 2/33](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/44 . . . with transport along plates

WARNING

Group [A23B 2/44](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.
- 2/37 . . with packages moving on the spot

WARNING

Group [A23B 2/37](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/445 {in solid state}

WARNING

Group [A23B 2/445](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.
- 2/40 . . by heating loose unpacked materials

WARNING

Group [A23B 2/40](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/46 . . . with transport through tubes

WARNING

Group [A23B 2/46](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.
- 2/405 . . {in solid state}

WARNING

Group [A23B 2/405](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/465 {in solid state}

WARNING

Group [A23B 2/465](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.
- 2/42 . . while they are progressively transported through the apparatus

WARNING

Group [A23B 2/42](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/48 . . with the materials in spray form

WARNING

Group [A23B 2/48](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 2/485 . . . {in solid state}
WARNING
 Group [A23B 2/485](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- 2/50 . . by irradiation without heating
WARNING
 Group [A23B 2/50](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- 2/503 . . {with corpuscular or ionising radiation, i.e. X, alpha, beta or omega radiation}
WARNING
 Group [A23B 2/503](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- 2/505 . . {with corona irradiation}
WARNING
 Group [A23B 2/505](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- 2/53 . . with ultraviolet light
WARNING
 Group [A23B 2/53](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- 2/57 . . by treatment with ultrasonic waves
WARNING
 Group [A23B 2/57](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- 2/60 . . by treatment with electric currents without heating effect
WARNING
 Group [A23B 2/60](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- 2/605 . . {by electrolysis}
WARNING
 Group [A23B 2/605](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- 2/70 . . by treatment with chemicals
WARNING
 Group [A23B 2/70](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- 2/704 . . in the form of gases, e.g. fumigation; Compositions or apparatus therefor
WARNING
 Group [A23B 2/704](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- 2/7045 . . . {Details of apparatus for generating or regenerating gases}
WARNING
 Group [A23B 2/7045](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- 2/708 . . . in a controlled atmosphere, e.g. partial vacuum, comprising only CO₂, N₂, O₂ or H₂O
WARNING
 Group [A23B 2/708](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
 All groups listed in this Warning should be considered in order to perform a complete search.

- 2/712 in which an absorbent is placed or used
(packages for foodstuffs with provision for
absorbing fluids [B65D 81/26](#))
- WARNING**
- Group [A23B 2/712](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/717 Oxygen absorbent
- WARNING**
- Group [A23B 2/717](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/721 in a controlled atmosphere comprising other gases in addition to CO₂, N₂, O₂ or H₂O
- WARNING**
- Group [A23B 2/721](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/725 in the form of liquids or solids
- WARNING**
- Group [A23B 2/725](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/729 Organic compounds; Microorganisms; Enzymes
- NOTE**
- 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.
- WARNING**
- Group [A23B 2/729](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/7295 {Antibiotics}
- WARNING**
- Group [A23B 2/7295](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/733 Compounds of undetermined constitution obtained from animals or plants
- WARNING**
- Group [A23B 2/733](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/742 Organic compounds containing oxygen
- WARNING**
- Group [A23B 2/742](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/746 with singly-bound oxygen
- WARNING**
- Group [A23B 2/746](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/75 with doubly-bound oxygen
- WARNING**
- Group [A23B 2/75](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/754 containing carboxyl groups
- WARNING**
- Group [A23B 2/754](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.

2/758 Carboxylic acid esters

WARNING

Group [A23B 2/758](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/762 Organic compounds containing nitrogen

WARNING

Group [A23B 2/762](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/767 Organic compounds containing sulfur

WARNING

Group [A23B 2/767](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/771 Organic compounds containing hetero rings

WARNING

Group [A23B 2/771](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/775 Organic compounds containing phosphorus

WARNING

Group [A23B 2/775](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/779 Sugars; Derivatives thereof

WARNING

Group [A23B 2/779](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/783 Microorganisms; Enzymes

WARNING

Group [A23B 2/783](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/788 Inorganic compounds

WARNING

Group [A23B 2/788](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/792 Apparatus for preserving using liquids

WARNING

Group [A23B 2/792](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/796 Apparatus for preserving using solids

WARNING

Group [A23B 2/796](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/80 Freezing; Subsequent thawing; Cooling

WARNING

Group [A23B 2/80](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2/803 . . . {Materials being transported through or in the apparatus, with or without shaping, e.g. in the form of powders, granules or flakes}

WARNING

Group [A23B 2/803](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 2/8033 . . . {with packages or with shaping in the form of blocks or portions}
- WARNING**
- Group [A23B 2/8033](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/805 . . . {Materials not being transported through or in the apparatus with or without shaping, e.g. in the form of powders, granules or flakes}
- WARNING**
- Group [A23B 2/805](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/8055 . . . {with packages or with shaping in the form of blocks or portions}
- WARNING**
- Group [A23B 2/8055](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/82 . . . Thawing subsequent to freezing
- WARNING**
- Group [A23B 2/82](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/85 . . . with addition of {or treatment with} chemicals
- WARNING**
- Group [A23B 2/85](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/88 . . . with direct contact between the food and the chemical, e.g. liquid N₂ at cryogenic temperature
- WARNING**
- Group [A23B 2/88](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/90 . . . by drying or kilning; Subsequent reconstitution
- WARNING**
- Group [A23B 2/90](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/905 . . . {Fractionated crystallisation}
- WARNING**
- Group [A23B 2/905](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/91 . . . with addition of chemicals before or during drying
- WARNING**
- Group [A23B 2/91](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/92 . . . Freeze drying
- WARNING**
- Group [A23B 2/92](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/93 . . . Spray drying
- WARNING**
- Group [A23B 2/93](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/94 . . . Thin-layer drying, drum drying or roller drying
- WARNING**
- Group [A23B 2/94](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.

- 2/945 . . . {Drum- or roller-drying}
- WARNING**
- Group [A23B 2/945](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/95 . . Fluidised-bed drying
- WARNING**
- Group [A23B 2/95](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/96 . . Foam drying
- WARNING**
- Group [A23B 2/96](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2/97 . . using irradiation or electric treatment, e.g. ultrasonic waves
- WARNING**
- Group [A23B 2/97](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- Preservation of specific foods, foodstuffs or non-alcoholic beverages; Chemical ripening of fruit or vegetables**
- 4/00 Preservation of meat, sausages, fish or fish products**
- 4/002 . {Preservation in association with shaping ([A23B 4/0053](#), [A23B 4/01](#), [A23B 4/062](#) and [A23B 4/066](#) take precedence)}
- 4/005 . Preserving by heating
- 4/0053 . . {with gas or liquids, with or without shaping, e.g. in form of powder, granules or flakes}
- NOTE**
- The heating means for the gas or liquid are not classified
- 4/0056 . . . {with packages, or with shaping in the form of blocks or portions}
- 4/01 . . by irradiation or electric treatment {with or without shaping, e.g. in form of powder, granules or flakes}
- 4/012 . . . {with packages, or with shaping in the form of blocks or portions}
- 4/015 . Preserving by irradiation or electric treatment without heating effect
- 4/02 . Preserving by means of inorganic salts ([apparatus therefor A23B 4/26](#), [A23B 4/32](#))
- 4/021 . . {with apparatus adapted for gaseous preserving agents}
- 4/023 . . by kitchen salt or mixtures thereof with inorganic or organic compounds
- 4/0235 . . . {with organic compounds or biochemical products}
- 4/027 . . by inorganic salts other than kitchen salt or mixtures thereof with organic compounds, e.g. biochemical compounds
- 4/03 . Drying; Subsequent reconstitution
- 4/031 . . {Apparatus for drying ([A23B 4/037](#) takes precedence)}
- 4/033 . . with addition of chemicals ([A23B 4/037](#) takes precedence)
- 4/037 . . Freeze-drying {, i.e. cryodesiccation or lyophilisation; Apparatus therefor}
- 4/044 . Smoking; Smoking devices
- 4/048 . . with addition of chemicals other than natural smoke
- 4/052 . . Smoke generators {; Smoking apparatus}
- 4/0523 . . . {Smoke generators using wood-pyrolysis or wood-friction}
- 4/0526 . . . {Smoke generators or smoking apparatus using liquid smoke in gaseous or liquid form}
- 4/056 . . Smoking combined with irradiation or electric treatment, e.g. electrostatic smoking {; Apparatus therefor}
- 4/06 . Freezing; Subsequent thawing; Cooling
- 4/062 . . {the materials being transported through or in the apparatus with or without shaping, e.g. in the form of powder, granules or flakes ([moving on the spot only A23B 4/066](#))}
- 4/064 . . . {with packages or with shaping in the form of blocks or portions}
- 4/066 . . {the materials not being transported through or in the apparatus with or without shaping, e.g. in the form of powder, granules or flakes}
- 4/068 . . . {with packages or with shaping in the form of blocks or portions}
- 4/07 . . Thawing subsequent to freezing
- 4/08 . . with addition of chemicals {or treatment with chemicals} before or during cooling {, e.g. in the form of an ice coating or frozen block}
- 4/09 . . . with direct contact between the food and the chemical, e.g. liquid N₂, at cryogenic temperature
- 4/10 . Coating with a protective layer; Compositions or apparatus therefor
- 4/12 . Preserving with acids; Acid fermentation
- 4/14 . Preserving with chemicals not covered by groups [A23B 4/02](#) or [A23B 4/12](#)
- 4/16 . . in the form of gases, e.g. fumigation; Compositions or apparatus therefor
- 4/18 . . in the form of liquids or solids ([apparatus therefor A23B 4/26](#), [A23B 4/32](#))
- 4/20 . . . Organic compounds; Microorganisms; Enzymes
- 4/22 Microorganisms; Enzymes; {Antibiotics}
- 4/24 . . . Inorganic compounds
- 4/26 . Apparatus for preserving using liquids {; Processes therefor}
- 4/28 . . by injection of liquids

- 4/285 . . . {with inorganic salts}
- 4/30 . . by spraying of liquids
- 4/305 . . . {with inorganic salts}
- 4/32 . Apparatus for preserving using solids
- 4/325 . . {with inorganic salts}
- 5/00 Preservation of eggs or egg products**
- 5/005 . Preserving by heating
- 5/0052 . . {in the shell}
- 5/0055 . . {without the shell}
- 5/0057 . . . {with packages}
- 5/01 . . by irradiation or electric treatment
- 5/015 . Preserving by irradiation or electric treatment without heating effect
- 5/02 . Drying; Subsequent reconstitution
- 5/022 . . {Drying with use of gas or vacuum}
- 5/025 . . {Drying} with addition of chemicals ([A23B 5/03](#), [A23B 5/035](#) take precedence)
- 5/0255 . . . {Drying with use of liquids, e.g. by extraction}
- 5/03 . . Freeze-drying {, i.e. cryodesiccation or lyophilisation; Apparatus therefor}
- 5/035 . . Spray-drying
- 5/04 . Freezing; Subsequent thawing; Cooling
- 5/041 . . {Freezing or cooling without shell ([A23B 5/05](#) takes precedence)}
- 5/043 . . . {with packages}
- 5/045 . . Thawing subsequent to freezing
- 5/05 . . {Freezing or cooling} with addition of chemicals
- 5/055 . . . with direct contact between the food and the chemical, e.g. liquid nitrogen, at cryogenic temperature
- 5/06 . Coating eggs with a protective layer; Compositions or apparatus therefor
- 5/065 . . {Apparatus for coating}
- 5/08 . Preserving with chemicals
- 5/10 . . in the form of gases, e.g. fumigation; Compositions or apparatus therefor
- 5/12 . . in the form of liquids or solids
- 5/14 . . . Organic compounds; Microorganisms; Enzymes
- 5/16 Microorganisms; Enzymes
- 5/18 . . . Inorganic compounds
- 5/20 . . . Apparatus for preserving using liquids
- 5/22 . . . Apparatus for preserving using solids

7/00 Preservation of fruit or vegetables; Chemical ripening of fruit or vegetables

WARNING

Group [A23B 7/00](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/005 . Preserving by heating

WARNING

Group [A23B 7/005](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/0053 . . {by direct or indirect contact with heating gases or liquids}

WARNING

Group [A23B 7/0053](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/0056 . . . {with packages}

WARNING

Group [A23B 7/0056](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/01 . . by irradiation or electric treatment

WARNING

Group [A23B 7/01](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/012 . . . {with packages}

WARNING

Group [A23B 7/012](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/015 . Preserving by irradiation or electric treatment without heating effect

WARNING

Group [A23B 7/015](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/02 . Dehydrating; Subsequent reconstitution ([dried cooked potatoes A23L 19/12](#))

WARNING

Group [A23B 7/02](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/0205 . . {by contact of the material with fluids, e.g. drying gas or extracting liquids}

WARNING

Group [A23B 7/0205](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/021 . . {Foam drying}

WARNING

Group [A23B 7/021](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/0215 . . {Post-treatment of dried fruits or vegetables}

WARNING

Group [A23B 7/0215](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/022 . . with addition of chemicals {before or during drying, e.g. semi-moist products} ([A23B 7/024](#) - [A23B 7/028](#) take precedence)

WARNING

Group [A23B 7/022](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/024 . . Freeze-drying {, i.e. cryodesiccation or lyophilisation}

WARNING

Group [A23B 7/024](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/026 . . Spray-drying

WARNING

Group [A23B 7/026](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/028 . . Thin layer-, drum- or roller-drying {or by contact with a hot surface}

WARNING

Group [A23B 7/028](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/03 . . Drying raw potatoes

- 7/04 . Freezing; Subsequent thawing; Cooling

WARNING

Group [A23B 7/04](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/0408 . . {Materials being transported through or in the apparatus with or without shaping, e.g. in the form of powders, granules or flakes ([A23B 7/05](#) takes precedence; moving on the spot only [A23B 7/0425](#))}

WARNING

Group [A23B 7/0408](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/0416 . . . {with packages or with shaping in the form of blocks or portions}

WARNING

Group [A23B 7/0416](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/0425 . . {Materials not being transported through or in the apparatus, with or without shaping, e.g. in the form of powders, granules or flakes ([A23B 7/05](#) takes precedence)}

WARNING

Group [A23B 7/0425](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

7/0433 . . . {with packages or with shaping in the form of blocks or portions}

WARNING

Group [A23B 7/0433](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

7/0441 . . {Treatment other than blanching preparatory to freezing}

WARNING

Group [A23B 7/0441](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

7/045 . . Thawing subsequent to freezing

WARNING

Group [A23B 7/045](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

7/05 . . with addition of chemicals {or treatment with chemicals other than cryogenics, before or during cooling, e.g. in the form of an ice coating or frozen block}

WARNING

Group [A23B 7/05](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

7/055 . . . with direct contact between the food and the chemical, e.g. liquid N₂, at cryogenic temperature

WARNING

Group [A23B 7/055](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

7/06 . Blanching (machines therefor [A23N 12/00](#))

WARNING

Group [A23B 7/06](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

7/08 . Preserving with sugars (marmalade, jam or fruit jellies [A23L 21/10](#))

WARNING

Group [A23B 7/08](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

7/085 . . {in a solution of sugar}

WARNING

Group [A23B 7/085](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

7/10 . Preserving with acids; Acid fermentation

WARNING

Group [A23B 7/10](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

7/105 . . {Leaf vegetables, e.g. sauerkraut}

7/12 . . Apparatus for compressing sauerkraut

7/14 . Preserving or ripening with chemicals not covered by group [A23B 7/08](#) or [A23B 7/10](#)

WARNING

Group [A23B 7/14](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

7/144 . . in the form of gases, e.g. fumigation; Compositions or apparatus therefor

WARNING

Group [A23B 7/144](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

7/148 . . . in a controlled atmosphere, e.g. partial vacuum, comprising only CO₂, N₂, O₂ or H₂O

WARNING

Group [A23B 7/148](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/152 . . . in a controlled atmosphere comprising other gases in addition to CO₂, N₂, O₂ or H₂O {; Elimination of such other gases}

WARNING

Group [A23B 7/152](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/153 . . in the form of liquids or solids

WARNING

Group [A23B 7/153](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/154 . . . Organic compounds; Microorganisms; Enzymes

WARNING

Group [A23B 7/154](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/155 Microorganisms; Enzymes {; Antibiotics}

WARNING

Group [A23B 7/155](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/157 . . . Inorganic compounds

WARNING

Group [A23B 7/157](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/158 . . . Apparatus for preserving using liquids

WARNING

Group [A23B 7/158](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/159 . . . Apparatus for preserving using solids

WARNING

Group [A23B 7/159](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 7/16 . Coating with a protective layer; Compositions or apparatus therefor ([A23B 7/08](#) takes precedence)

WARNING

Group [A23B 7/16](#) is impacted by reclassification into groups [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/00 **Preservation of edible seeds, e.g. cereals (preservation of pulses [A23B 75/00](#))**

WARNING

Group [A23B 9/00](#) is impacted by reclassification into groups [A23B 75/00](#), [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/005 . {Processes or apparatus using pressure variation or mechanical force, e.g. shock, acceleration, shear stress or contortion}

WARNING

Group [A23B 9/005](#) is impacted by reclassification into groups [A23B 75/00](#), [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/02 . Preserving by heating

WARNING

Group [A23B 9/02](#) is impacted by reclassification into groups [A23B 75/00](#), [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/025 . . {with use of gases}

WARNING

Group [A23B 9/025](#) is impacted by reclassification into groups [A23B 75/00](#), [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

9/04	<ul style="list-style-type: none"> . . by irradiation or electric treatment <p><u>WARNING</u></p> <p>Group A23B 9/04 is impacted by reclassification into groups A23B 75/00, A23B 80/00, A23B 85/00 and A23B 90/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	9/16	<ul style="list-style-type: none"> . Preserving with chemicals <p><u>WARNING</u></p> <p>Group A23B 9/16 is impacted by reclassification into groups A23B 75/00, A23B 80/00, A23B 85/00 and A23B 90/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
9/06	<ul style="list-style-type: none"> . Preserving by irradiation or electric treatment without heating effect <p><u>WARNING</u></p> <p>Group A23B 9/06 is impacted by reclassification into groups A23B 75/00, A23B 80/00, A23B 85/00 and A23B 90/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	9/18	<ul style="list-style-type: none"> . . in the form of gases, e.g. fumigation; Compositions or apparatus therefor <p><u>WARNING</u></p> <p>Group A23B 9/18 is impacted by reclassification into groups A23B 75/00, A23B 80/00, A23B 85/00 and A23B 90/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
9/08	<ul style="list-style-type: none"> . Drying; Subsequent reconstitution <p><u>WARNING</u></p> <p>Group A23B 9/08 is impacted by reclassification into groups A23B 75/00, A23B 80/00, A23B 85/00 and A23B 90/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	9/20	<ul style="list-style-type: none"> . . . in a controlled atmosphere, e.g. partial vacuum, comprising only CO₂, N₂, O₂ or H₂O <p><u>WARNING</u></p> <p>Group A23B 9/20 is impacted by reclassification into groups A23B 75/00, A23B 80/00, A23B 85/00 and A23B 90/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
9/10	<ul style="list-style-type: none"> . Freezing; Subsequent thawing; Cooling <p><u>WARNING</u></p> <p>Group A23B 9/10 is impacted by reclassification into groups A23B 75/00, A23B 80/00, A23B 85/00 and A23B 90/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	9/22	<ul style="list-style-type: none"> . . . in a controlled atmosphere comprising other gases in addition to CO₂, N₂, O₂ or H₂O <p><u>WARNING</u></p> <p>Group A23B 9/22 is impacted by reclassification into groups A23B 75/00, A23B 80/00, A23B 85/00 and A23B 90/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
9/12	<ul style="list-style-type: none"> . . Thawing subsequent to freezing <p><u>WARNING</u></p> <p>Group A23B 9/12 is impacted by reclassification into groups A23B 75/00, A23B 80/00, A23B 85/00 and A23B 90/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	9/24	<ul style="list-style-type: none"> . . in the form of liquids or solids <p><u>WARNING</u></p> <p>Group A23B 9/24 is impacted by reclassification into groups A23B 75/00, A23B 80/00, A23B 85/00 and A23B 90/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
9/14	<ul style="list-style-type: none"> . Coating with a protective layer; Compositions or apparatus therefor <p><u>WARNING</u></p> <p>Group A23B 9/14 is impacted by reclassification into groups A23B 75/00, A23B 80/00, A23B 85/00 and A23B 90/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	9/26	<ul style="list-style-type: none"> . . . Organic compounds; Microorganisms; Enzymes <p><u>WARNING</u></p> <p>Group A23B 9/26 is impacted by reclassification into groups A23B 75/00, A23B 80/00, A23B 85/00 and A23B 90/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>

- 9/28 Microorganisms; Enzymes {; Antibiotics}
- WARNING**
- Group [A23B 9/28](#) is impacted by reclassification into groups [A23B 75/00](#), [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 9/30 Inorganic compounds
- WARNING**
- Group [A23B 9/30](#) is impacted by reclassification into groups [A23B 75/00](#), [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 9/32 Apparatus for preserving using liquids
- WARNING**
- Group [A23B 9/32](#) is impacted by reclassification into groups [A23B 75/00](#), [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 9/34 Apparatus for preserving using solids
- WARNING**
- Group [A23B 9/34](#) is impacted by reclassification into groups [A23B 75/00](#), [A23B 80/00](#), [A23B 85/00](#) and [A23B 90/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 11/00 Preservation of milk or dairy products**
- WARNING**
- Group [A23B 11/00](#) is incomplete pending reclassification of documents from group [A23C 7/00](#).
- Groups [A23C 7/00](#) and [A23B 11/00](#) should be considered in order to perform a complete search.
- 11/10 Preservation of milk or milk preparations
- WARNING**
- Group [A23B 11/10](#) is incomplete pending reclassification of documents from group [A23C 9/00](#).
- Groups [A23C 9/00](#) and [A23B 11/10](#) should be considered in order to perform a complete search.
- 11/102 {Storing or packaging in a vacuum or in inert or sterile gaseous atmosphere (impregnation with inert gases [A23C 9/1524](#))}
- 11/12 by heating (by irradiation, e.g. by microwaves [A23B 11/16](#))
- 11/123 in packages
- 11/127 progressively transported through the apparatus
- 11/13 the materials being loose unpacked
- 11/1303 {Apparatus through which the material is transported non progressively; Temperature-maintaining holding tanks or vats with discontinuous filling or discharge}
- 11/133 and progressively transported through the apparatus
- 11/1332 {in contact with multiple heating plates}
- 11/1334 {the milk being heated by electrical or mechanical means, e.g. by friction}
- 11/1336 {the milk flowing through with indirect heat exchange, containing rotating elements, e.g. for improving the heat exchange}
- 11/137 in direct contact with the heating medium, e.g. steam
- 11/1375 {by pulverisation of the milk, including free falling film}
- 11/14 by freezing or cooling
- 11/1403 {Freezing in loose unpacked form}
- 11/145 in packages
- 11/1455 {Freezing in packages}
- 11/16 by irradiation, e.g. by microwaves
- 11/162 {by sonic or ultrasonic waves}
- 11/164 {by ultraviolet or infrared radiation}
- 11/18 by addition of preservatives (addition of microorganisms or enzymes [A23C 9/12](#); addition of other substances [A23C 9/152](#))
- 11/182 {Inorganic compounds, e.g. lactoperoxidase - H₂O₂ systems}
- 11/20 Preservation of milk substitutes
- WARNING**
- Group [A23B 11/20](#) is incomplete pending reclassification of documents from group [A23C 11/00](#).
- Groups [A23C 11/00](#) and [A23B 11/20](#) should be considered in order to perform a complete search.
- 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](#))
- WARNING**
- Group [A23B 11/22](#) is incomplete pending reclassification of documents from group [A23C 11/02](#).
- Groups [A23C 11/02](#) and [A23B 11/22](#) should be considered in order to perform a complete search.

- | | | | |
|--------|--|--------|--|
| 11/23 | <p>. . . containing non-milk fats but no non-milk proteins (A23B 11/27, A23B 11/29 take precedence)</p> <p>WARNING</p> <p>Group A23B 11/23 is incomplete pending reclassification of documents from group A23C 11/04.</p> <p>Groups A23C 11/04 and A23B 11/23 should be considered in order to perform a complete search.</p> | 11/29 | <p>. . . containing or not lactose but no other milk components as source of fats, carbohydrates or proteins</p> <p>WARNING</p> <p>Group A23B 11/29 is incomplete pending reclassification of documents from group A23C 11/10.</p> <p>Groups A23C 11/10 and A23B 11/29 should be considered in order to perform a complete search.</p> |
| 11/233 | <p>. . . . {obtained by mixing non-fat components in powdered form with the non-milk fats or by dry mixing of the components}</p> <p>WARNING</p> <p>Group A23B 11/233 is incomplete pending reclassification of documents from group A23C 11/045.</p> <p>Groups A23C 11/045 and A23B 11/233 should be considered in order to perform a complete search.</p> | 11/293 | <p>. . . . {containing only proteins from pulses, oilseeds or nuts, e.g. nut milk}</p> <p>WARNING</p> <p>Group A23B 11/293 is incomplete pending reclassification of documents from group A23C 11/103.</p> <p>Groups A23C 11/103 and A23B 11/293 should be considered in order to perform a complete search.</p> |
| 11/25 | <p>. . . containing non-milk proteins (A23B 11/27, A23B 11/29 take precedence)</p> <p>WARNING</p> <p>Group A23B 11/25 is incomplete pending reclassification of documents from group A23C 11/06.</p> <p>Groups A23C 11/06 and A23B 11/25 should be considered in order to perform a complete search.</p> | 11/295 | <p>. {Addition of, or treatment with, microorganisms (A23B 11/75 takes precedence)}</p> <p>WARNING</p> <p>Group A23B 11/295 is incomplete pending reclassification of documents from group A23C 11/106.</p> <p>Groups A23C 11/106 and A23B 11/295 should be considered in order to perform a complete search.</p> |
| 11/253 | <p>. . . . {Microbial proteins, inactivated yeast or animal proteins}</p> <p>WARNING</p> <p>Group A23B 11/253 is incomplete pending reclassification of documents from group A23C 11/065.</p> <p>Groups A23C 11/065 and A23B 11/253 should be considered in order to perform a complete search.</p> | 11/30 | <p>. Preservation of cream or cream preparations</p> <p>WARNING</p> <p>Group A23B 11/30 is incomplete pending reclassification of documents from group A23C 13/00.</p> <p>Groups A23C 13/00 and A23B 11/30 should be considered in order to perform a complete search.</p> |
| 11/27 | <p>. . . containing caseinates but no other milk proteins or milk fats</p> <p>WARNING</p> <p>Group A23B 11/27 is incomplete pending reclassification of documents from group A23C 11/08.</p> <p>Groups A23C 11/08 and A23B 11/27 should be considered in order to perform a complete search.</p> | 11/302 | <p>. . {Freezing; Subsequent melting}</p> |
| | | 11/35 | <p>. . by addition of preservatives (containing or treated with microorganisms, enzymes or antibiotics A23C 13/16)</p> |
| | | 11/40 | <p>. Preservation of butter or butter preparations</p> <p>WARNING</p> <p>Group A23B 11/40 is incomplete pending reclassification of documents from group A23C 15/00.</p> <p>Groups A23C 15/00 and A23B 11/40 should be considered in order to perform a complete search.</p> |
| | | 11/45 | <p>. . by addition of preservatives</p> |

- | | | | |
|--------|--|--------|--|
| 11/50 | <ul style="list-style-type: none"> • Preservation of buttermilk or buttermilk preparations <p><u>WARNING</u></p> <p>Group A23B 11/50 is incomplete pending reclassification of documents from group A23C 17/00.</p> <p>Groups A23C 17/00 and A23B 11/50 should be considered in order to perform a complete search.</p> | 11/75 | <ul style="list-style-type: none"> • • containing neither milk components, nor caseinate, nor lactose, as sources of fats, proteins or carbohydrates <p><u>WARNING</u></p> <p>Group A23B 11/75 is incomplete pending reclassification of documents from group A23C 20/02.</p> <p>Groups A23C 20/02 and A23B 11/75 should be considered in order to perform a complete search.</p> |
| 11/55 | <ul style="list-style-type: none"> • • containing, or treated with, microorganisms or enzymes <p><u>WARNING</u></p> <p>Group A23B 11/55 is incomplete pending reclassification of documents from group A23C 17/02.</p> <p>Groups A23C 17/02 and A23B 11/55 should be considered in order to perform a complete search.</p> | 11/753 | <ul style="list-style-type: none"> • • • {mainly containing proteins from pulses or oilseeds} <p><u>WARNING</u></p> <p>Group A23B 11/753 is incomplete pending reclassification of documents from group A23C 20/025.</p> <p>Groups A23C 20/025 and A23B 11/753 should be considered in order to perform a complete search.</p> |
| 11/60 | <ul style="list-style-type: none"> • Preservation of cheese or cheese preparations <p><u>WARNING</u></p> <p>Group A23B 11/60 is incomplete pending reclassification of documents from group A23C 19/00.</p> <p>Groups A23C 19/00 and A23B 11/60 should be considered in order to perform a complete search.</p> | 11/80 | <ul style="list-style-type: none"> • Preservation of whey or whey preparations (preservation of milk or milk preparations A23B 11/10) <p><u>WARNING</u></p> <p>Group A23B 11/80 is incomplete pending reclassification of documents from group A23C 21/00.</p> <p>Groups A23C 21/00 and A23B 11/80 should be considered in order to perform a complete search.</p> |
| 11/602 | <ul style="list-style-type: none"> • • {Pasteurisation; Sterilisation; Hot packaging} | 11/82 | <ul style="list-style-type: none"> • • containing, or treated with, microorganisms or enzymes <p><u>WARNING</u></p> <p>Group A23B 11/82 is incomplete pending reclassification of documents from group A23C 21/02.</p> <p>Groups A23C 21/02 and A23B 11/82 should be considered in order to perform a complete search.</p> |
| 11/604 | <ul style="list-style-type: none"> • • {Freezing; Treating cheese in frozen state; Thawing of frozen cheese} | 11/823 | <ul style="list-style-type: none"> • • • {Lactose hydrolysing enzymes, e.g. lactase or B-galactosidase} <p><u>WARNING</u></p> <p>Group A23B 11/823 is incomplete pending reclassification of documents from group A23C 21/023.</p> <p>Groups A23C 21/023 and A23B 11/823 should be considered in order to perform a complete search.</p> |
| 11/65 | <ul style="list-style-type: none"> • • by addition of preservatives | | |
| 11/652 | <ul style="list-style-type: none"> • • • {Inorganic compounds; Inert or noble gases; Carbon dioxide} | | |
| 11/67 | <ul style="list-style-type: none"> • • • of antibiotics | | |
| 11/70 | <ul style="list-style-type: none"> • Preservation of cheese substitutes <p><u>WARNING</u></p> <p>Group A23B 11/70 is incomplete pending reclassification of documents from group A23C 20/00.</p> <p>Groups A23C 20/00 and A23B 11/70 should be considered in order to perform a complete search.</p> | | |
| 11/703 | <ul style="list-style-type: none"> • • {mainly containing proteins from pulses or oilseeds} <p><u>WARNING</u></p> <p>Group A23B 11/703 is incomplete pending reclassification of documents from group A23C 20/005.</p> <p>Groups A23C 20/005 and A23B 11/703 should be considered in order to perform a complete search.</p> | | |

- | | | | |
|--------------|---|--------------|--|
| 11/825 | <ul style="list-style-type: none"> . . . {containing, or treated only with, lactic acid producing bacteria, bifidobacteria or propionic acid bacteria} <p><u>WARNING</u></p> <p>Group A23B 11/825 is incomplete pending reclassification of documents from group A23C 21/026.</p> <p>Groups A23C 21/026 and A23B 11/825 should be considered in order to perform a complete search.</p> | 20/30 | <ul style="list-style-type: none"> . Preservation of other edible oils or fats, e.g. shortenings or cooking oils |
| | | 40/00 | <p>Preservation of flour or dough before baking</p> <p><u>WARNING</u></p> <p>Group A23B 40/00 is incomplete pending reclassification of documents from groups A21D 6/00, A21D 6/006 and A21D 6/008.</p> <p>Group A23B 40/00 is also impacted by reclassification into groups A23B 40/10, A23B 40/30, A23B 40/50 and A23B 40/60.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p> |
| 11/84 | <ul style="list-style-type: none"> . . containing non-milk components as source of fats or proteins <p><u>WARNING</u></p> <p>Group A23B 11/84 is incomplete pending reclassification of documents from group A23C 21/04.</p> <p>Groups A23C 21/04 and A23B 11/84 should be considered in order to perform a complete search.</p> | 40/10 | <ul style="list-style-type: none"> . by cooling <p><u>WARNING</u></p> <p>Group A23B 40/10 is incomplete pending reclassification of documents from groups A23B 40/00, A21D 6/00 and A21D 6/001.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p> |
| 11/86 | <ul style="list-style-type: none"> . . Mixtures of whey with milk products or milk components <p><u>WARNING</u></p> <p>Group A23B 11/86 is incomplete pending reclassification of documents from group A23C 21/06.</p> <p>Groups A23C 21/06 and A23B 11/86 should be considered in order to perform a complete search.</p> | 40/30 | <ul style="list-style-type: none"> . by heating <p><u>WARNING</u></p> <p>Group A23B 40/30 is incomplete pending reclassification of documents from groups A23B 40/00, A21D 6/00 and A21D 6/003.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p> |
| 11/87 | <ul style="list-style-type: none"> . . containing other organic additives, e.g. vegetable or animal products <p><u>WARNING</u></p> <p>Group A23B 11/87 is incomplete pending reclassification of documents from group A23C 21/08.</p> <p>Groups A23C 21/08 and A23B 11/87 should be considered in order to perform a complete search.</p> | 40/50 | <ul style="list-style-type: none"> . by irradiation <p><u>WARNING</u></p> <p>Group A23B 40/50 is incomplete pending reclassification of documents from groups A23B 40/00, A21D 6/00 and A21D 6/005.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p> |
| 11/88 | <ul style="list-style-type: none"> . . containing inorganic additives <p><u>WARNING</u></p> <p>Group A23B 11/88 is incomplete pending reclassification of documents from group A23C 21/10.</p> <p>Groups A23C 21/10 and A23B 11/88 should be considered in order to perform a complete search.</p> | 40/60 | <ul style="list-style-type: none"> . by storage in an inert atmosphere <p><u>WARNING</u></p> <p>Group A23B 40/60 is incomplete pending reclassification of documents from groups A23B 40/00 and A21D 6/00.</p> <p>Groups A23B 40/00, A21D 6/00 and A23B 40/60 should be considered in order to perform a complete search.</p> |
| 20/00 | <p>Preservation of edible oils or fats</p> <p><u>WARNING</u></p> <p>Group A23B 20/00 is incomplete pending reclassification of documents from groups A23D 7/00 and A23D 9/00.</p> <p>Groups A23D 7/00, A23D 9/00 and A23B 20/00 should be considered in order to perform a complete search.</p> | 45/00 | <p>Preservation of finished bakery products</p> <p><u>WARNING</u></p> <p>Group A23B 45/00 is incomplete pending reclassification of documents from group A21D 15/00.</p> <p>Groups A21D 15/00 and A23B 45/00 should be considered in order to perform a complete search.</p> |
| 20/10 | <ul style="list-style-type: none"> . Preservation of edible oil or fat compositions containing an aqueous phase, e.g. margarines | | |

- 45/10 . by cooling
WARNING
 Group [A23B 45/10](#) is incomplete pending reclassification of documents from group [A21D 15/02](#).
 Groups [A21D 15/02](#) and [A23B 45/10](#) should be considered in order to perform a complete search.
- 45/30 . by heating
WARNING
 Group [A23B 45/30](#) is incomplete pending reclassification of documents from group [A21D 15/04](#).
 Groups [A21D 15/04](#) and [A23B 45/30](#) should be considered in order to perform a complete search.
- 45/50 . by irradiation
WARNING
 Group [A23B 45/50](#) is incomplete pending reclassification of documents from group [A21D 15/06](#).
 Groups [A21D 15/06](#) and [A23B 45/50](#) should be considered in order to perform a complete search.
- 45/70 . by coating
WARNING
 Group [A23B 45/70](#) is incomplete pending reclassification of documents from group [A21D 15/08](#).
 Groups [A21D 15/08](#) and [A23B 45/70](#) should be considered in order to perform a complete search.
- 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](#))
WARNING
 Group [A23B 70/00](#) is impacted by reclassification into groups [A23B 70/20](#), [A23B 75/10](#), [A23B 85/10](#) and [A23B 90/10](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- 70/10 . by addition of preservatives
 70/20 . by cooling
WARNING
 Group [A23B 70/20](#) is incomplete pending reclassification of documents from group [A23B 70/00](#).
 Groups [A23B 70/00](#) and [A23B 70/20](#) should be considered in order to perform a complete search.
- 70/30 . by heating
 70/35 . . by irradiation or electric treatment
- 70/50 . by irradiation or electric treatment, without heating
- 75/00 Preservation of pulses; Preservation of products from legumes**
WARNING
 Group [A23B 75/00](#) is incomplete pending reclassification of documents from groups [A23B 9/00](#), [A23B 9/005](#), [A23B 9/02](#), [A23B 9/025](#), [A23B 9/04](#), [A23B 9/06](#), [A23B 9/08](#), [A23B 9/10](#), [A23B 9/12](#), [A23B 9/14](#), [A23B 9/16](#), [A23B 9/18](#), [A23B 9/20](#), [A23B 9/22](#), [A23B 9/24](#), [A23B 9/26](#), [A23B 9/28](#), [A23B 9/30](#), [A23B 9/32](#), [A23B 9/34](#), [A23L 11/00](#), [A23L 11/01](#), [A23L 11/03](#), [A23L 11/05](#), [A23L 11/07](#), [A23L 11/10](#), [A23L 11/30](#), [A23L 11/31](#), [A23L 11/32](#), [A23L 11/33](#), [A23L 11/34](#), [A23L 11/35](#), [A23L 11/36](#), [A23L 11/37](#), [A23L 11/40](#), [A23L 11/45](#), [A23L 11/50](#), and [A23L 11/70](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- 75/10 . Preservation of beverages from legumes, e.g. soy drinks
WARNING
 Group [A23B 75/10](#) is incomplete pending reclassification of documents from groups [A23B 70/00](#), [A23L 11/60](#) and [A23L 11/65](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- 80/00 Preservation of cocoa or cocoa products**
WARNING
 Group [A23B 80/00](#) is incomplete pending reclassification of documents from groups [A23B 2/00](#) - [A23B 2/53](#), [A23B 2/57](#), [A23B 2/60](#) - [A23B 2/605](#), [A23B 2/70](#) - [A23B 2/97](#), [A23B 7/00](#) - [A23B 7/16](#), [A23B 9/00](#) - [A23B 9/34](#) and [A23G 1/00](#) - [A23G 1/56](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- 85/00 Preservation of tea, tea substitutes or herbal tea**
WARNING
 Group [A23B 85/00](#) is incomplete pending reclassification of documents from groups [A23B 2/00](#) - [A23B 2/53](#), [A23B 2/57](#), [A23B 2/60](#) - [A23B 2/605](#), [A23B 2/70](#) - [A23B 2/97](#), [A23B 7/00](#) - [A23B 7/16](#), [A23B 9/00](#) - [A23B 9/34](#) and [A23F 3/00](#) - [A23F 3/426](#).
 All groups listed in this Warning should be considered in order to perform a complete search.

- 85/10 • Preservation of beverages containing tea, tea substitutes or herbal tea

WARNING

Group [A23B 85/10](#) is incomplete pending reclassification of documents from group [A23B 70/00](#).

Groups [A23B 70/00](#) and [A23B 85/10](#) should be considered in order to perform a complete search.

- 90/00 • **Preservation of coffee or coffee substitutes**

WARNING

Group [A23B 90/00](#) is incomplete pending reclassification of documents from groups [A23B 2/00](#) - [A23B 2/53](#), [A23B 2/57](#), [A23B 2/60](#) - [A23B 2/605](#), [A23B 2/70](#) - [A23B 2/97](#), [A23B 7/00](#) - [A23B 7/16](#), [A23B 9/00](#) - [A23B 9/34](#) and [A23F 5/00](#) - [A23F 5/505](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 90/10 • Preservation of beverages containing coffee or coffee substitutes

WARNING

Group [A23B 90/10](#) is incomplete pending reclassification of documents from group [A23B 70/00](#).

Groups [A23B 70/00](#) and [A23B 90/10](#) should be considered in order to perform a complete search.

-
- 99/00 • **Subject matter not provided for in other groups of this subclass**