

# 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 Preservation of foods or foodstuffs, in general

##### NOTE

This group covers processes or apparatus for the preservation of foods or foodstuffs, in general, i.e. where the nature of the product is not relevant or not specified.

##### WARNING

Group [A23B 2/00](#) 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.

- 2/001 . {Details of apparatus, e.g. pressure feed valves or for transport, or loading or unloading manipulation}

##### WARNING

Group [A23B 2/001](#) 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.

- 2/003 . {Control or safety devices for sterilisation or pasteurisation systems}

##### WARNING

Group [A23B 2/003](#) 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.

- 2/05 . by heating using irradiation or electric treatment (drying or kilning [A23B 2/90](#))

##### WARNING

Group [A23B 2/05](#) 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.

- 2/055 . . {with infrared rays}

##### WARNING

Group [A23B 2/055](#) 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.

- 2/08 . . using microwaves or dielectric heating

##### WARNING

Group [A23B 2/08](#) 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.

- 2/10 . by treatment with pressure variation, shock, acceleration or shear stress

##### WARNING

Group [A23B 2/10](#) 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.

- 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.
- 2/33 . . 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.
- 2/37 . . 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.
- 2/40 . 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.
- 2/405 . . {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.
- 2/42 . . 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.
- 2/425 . . . {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.
- 2/44 . . . 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.
- 2/445 . . . . {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.
- 2/46 . . . 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.
- 2/465 . . . . {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.
- 2/48 . . 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 CO<sub>2</sub>, N<sub>2</sub>, O<sub>2</sub> or H<sub>2</sub>O

**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 CO<sub>2</sub>, N<sub>2</sub>, O<sub>2</sub> or H<sub>2</sub>O

**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 N<sub>2</sub> 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 N<sub>2</sub>, 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 N<sub>2</sub>, 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 CO<sub>2</sub>, N<sub>2</sub>, O<sub>2</sub> or H<sub>2</sub>O

**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 CO<sub>2</sub>, N<sub>2</sub>, O<sub>2</sub> or H<sub>2</sub>O {; 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 . . by irradiation or electric treatment

**WARNING**

Group [A23B 9/04](#) 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.

- 9/06 . Preserving by irradiation or electric treatment without heating effect

**WARNING**

Group [A23B 9/06](#) 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.

- 9/08 . Drying; Subsequent reconstitution

**WARNING**

Group [A23B 9/08](#) 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.

- 9/10 . Freezing; Subsequent thawing; Cooling

**WARNING**

Group [A23B 9/10](#) 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.

- 9/12 . . Thawing subsequent to freezing

**WARNING**

Group [A23B 9/12](#) 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.

- 9/14 . Coating with a protective layer; Compositions or apparatus therefor

**WARNING**

Group [A23B 9/14](#) 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.

- 9/16 . Preserving with chemicals

**WARNING**

Group [A23B 9/16](#) 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.

- 9/18 . . in the form of gases, e.g. fumigation; Compositions or apparatus therefor

**WARNING**

Group [A23B 9/18](#) 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.

- 9/20 . . . in a controlled atmosphere, e.g. partial vacuum, comprising only CO<sub>2</sub>, N<sub>2</sub>, O<sub>2</sub> or H<sub>2</sub>O

**WARNING**

Group [A23B 9/20](#) 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.

- 9/22 . . . in a controlled atmosphere comprising other gases in addition to CO<sub>2</sub>, N<sub>2</sub>, O<sub>2</sub> or H<sub>2</sub>O

**WARNING**

Group [A23B 9/22](#) 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.

- 9/24 . . in the form of liquids or solids

**WARNING**

Group [A23B 9/24](#) 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.

- 9/26 . . . Organic compounds; Microorganisms; Enzymes

**WARNING**

Group [A23B 9/26](#) 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.

- 9/28 . . . . 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 - H<sub>2</sub>O<sub>2</sub> 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 . . . containing non-milk fats but no non-milk proteins ([A23B 11/27](#), [A23B 11/29](#) take precedence)  
**WARNING**  
 Group [A23B 11/23](#) is incomplete pending reclassification of documents from group [A23C 11/04](#).  
 Groups [A23C 11/04](#) and [A23B 11/23](#) should be considered in order to perform a complete search.
- 11/233 . . . . {obtained by mixing non-fat components in powdered form with the non-milk fats or by dry mixing of the components}  
**WARNING**  
 Group [A23B 11/233](#) is incomplete pending reclassification of documents from group [A23C 11/045](#).  
 Groups [A23C 11/045](#) and [A23B 11/233](#) should be considered in order to perform a complete search.
- 11/25 . . . containing non-milk proteins ([A23B 11/27](#), [A23B 11/29](#) take precedence)  
**WARNING**  
 Group [A23B 11/25](#) is incomplete pending reclassification of documents from group [A23C 11/06](#).  
 Groups [A23C 11/06](#) and [A23B 11/25](#) should be considered in order to perform a complete search.
- 11/253 . . . . {Microbial proteins, inactivated yeast or animal proteins}  
**WARNING**  
 Group [A23B 11/253](#) is incomplete pending reclassification of documents from group [A23C 11/065](#).  
 Groups [A23C 11/065](#) and [A23B 11/253](#) should be considered in order to perform a complete search.
- 11/27 . . . containing caseinates but no other milk proteins or milk fats  
**WARNING**  
 Group [A23B 11/27](#) is incomplete pending reclassification of documents from group [A23C 11/08](#).  
 Groups [A23C 11/08](#) and [A23B 11/27](#) should be considered in order to perform a complete search.

- 11/29 . . . containing or not lactose but no other milk components as source of fats, carbohydrates or proteins  
**WARNING**  
 Group [A23B 11/29](#) is incomplete pending reclassification of documents from group [A23C 11/10](#).  
 Groups [A23C 11/10](#) and [A23B 11/29](#) should be considered in order to perform a complete search.
- 11/293 . . . . {containing only proteins from pulses, oilseeds or nuts, e.g. nut milk}  
**WARNING**  
 Group [A23B 11/293](#) is incomplete pending reclassification of documents from group [A23C 11/103](#).  
 Groups [A23C 11/103](#) and [A23B 11/293](#) should be considered in order to perform a complete search.
- 11/295 . . . . . {Addition of, or treatment with, microorganisms ([A23B 11/75](#) takes precedence)}  
**WARNING**  
 Group [A23B 11/295](#) is incomplete pending reclassification of documents from group [A23C 11/106](#).  
 Groups [A23C 11/106](#) and [A23B 11/295](#) should be considered in order to perform a complete search.
- 11/30 . Preservation of cream or cream preparations  
**WARNING**  
 Group [A23B 11/30](#) is incomplete pending reclassification of documents from group [A23C 13/00](#).  
 Groups [A23C 13/00](#) and [A23B 11/30](#) should be considered in order to perform a complete search.
- 11/302 . . {Freezing; Subsequent melting}  
 11/35 . . by addition of preservatives (containing or treated with microorganisms, enzymes or antibiotics [A23C 13/16](#))  
 11/40 . Preservation of butter or butter preparations  
**WARNING**  
 Group [A23B 11/40](#) is incomplete pending reclassification of documents from group [A23C 15/00](#).  
 Groups [A23C 15/00](#) and [A23B 11/40](#) should be considered in order to perform a complete search.
- 11/45 . . by addition of preservatives

- 11/50 . Preservation of buttermilk or buttermilk preparations

**WARNING**

Group [A23B 11/50](#) is incomplete pending reclassification of documents from group [A23C 17/00](#).

Groups [A23C 17/00](#) and [A23B 11/50](#) should be considered in order to perform a complete search.

- 11/55 . . containing, or treated with, microorganisms or enzymes

**WARNING**

Group [A23B 11/55](#) is incomplete pending reclassification of documents from group [A23C 17/02](#).

Groups [A23C 17/02](#) and [A23B 11/55](#) should be considered in order to perform a complete search.

- 11/60 . Preservation of cheese or cheese preparations

**WARNING**

Group [A23B 11/60](#) is incomplete pending reclassification of documents from group [A23C 19/00](#).

Groups [A23C 19/00](#) and [A23B 11/60](#) should be considered in order to perform a complete search.

- 11/602 . . {Pasteurisation; Sterilisation; Hot packaging}

- 11/604 . . {Freezing; Treating cheese in frozen state; Thawing of frozen cheese}

- 11/65 . . by addition of preservatives

- 11/652 . . . {Inorganic compounds; Inert or noble gases; Carbon dioxide}

- 11/67 . . . of antibiotics

- 11/70 . Preservation of cheese substitutes

**WARNING**

Group [A23B 11/70](#) is incomplete pending reclassification of documents from group [A23C 20/00](#).

Groups [A23C 20/00](#) and [A23B 11/70](#) should be considered in order to perform a complete search.

- 11/703 . . {mainly containing proteins from pulses or oilseeds}

**WARNING**

Group [A23B 11/703](#) is incomplete pending reclassification of documents from group [A23C 20/005](#).

Groups [A23C 20/005](#) and [A23B 11/703](#) should be considered in order to perform a complete search.

- 11/75 . . containing neither milk components, nor caseinate, nor lactose, as sources of fats, proteins or carbohydrates

**WARNING**

Group [A23B 11/75](#) is incomplete pending reclassification of documents from group [A23C 20/02](#).

Groups [A23C 20/02](#) and [A23B 11/75](#) should be considered in order to perform a complete search.

- 11/753 . . . {mainly containing proteins from pulses or oilseeds}

**WARNING**

Group [A23B 11/753](#) is incomplete pending reclassification of documents from group [A23C 20/025](#).

Groups [A23C 20/025](#) and [A23B 11/753](#) should be considered in order to perform a complete search.

- 11/80 . Preservation of whey or whey preparations (preservation of milk or milk preparations [A23B 11/10](#))

**WARNING**

Group [A23B 11/80](#) is incomplete pending reclassification of documents from group [A23C 21/00](#).

Groups [A23C 21/00](#) and [A23B 11/80](#) should be considered in order to perform a complete search.

- 11/82 . . containing, or treated with, microorganisms or enzymes

**WARNING**

Group [A23B 11/82](#) is incomplete pending reclassification of documents from group [A23C 21/02](#).

Groups [A23C 21/02](#) and [A23B 11/82](#) should be considered in order to perform a complete search.

- 11/823 . . . {Lactose hydrolysing enzymes, e.g. lactase or B-galactosidase}

**WARNING**

Group [A23B 11/823](#) is incomplete pending reclassification of documents from group [A23C 21/023](#).

Groups [A23C 21/023](#) and [A23B 11/823](#) should be considered in order to perform a complete search.

- 11/825 . . . {containing, or treated only with, lactic acid producing bacteria, bifidobacteria or propionic acid bacteria}

**WARNING**

Group [A23B 11/825](#) is incomplete pending reclassification of documents from group [A23C 21/026](#).

Groups [A23C 21/026](#) and [A23B 11/825](#) should be considered in order to perform a complete search.

- 11/84 . . containing non-milk components as source of fats or proteins

**WARNING**

Group [A23B 11/84](#) is incomplete pending reclassification of documents from group [A23C 21/04](#).

Groups [A23C 21/04](#) and [A23B 11/84](#) should be considered in order to perform a complete search.

- 11/86 . . Mixtures of whey with milk products or milk components

**WARNING**

Group [A23B 11/86](#) is incomplete pending reclassification of documents from group [A23C 21/06](#).

Groups [A23C 21/06](#) and [A23B 11/86](#) should be considered in order to perform a complete search.

- 11/87 . . containing other organic additives, e.g. vegetable or animal products

**WARNING**

Group [A23B 11/87](#) is incomplete pending reclassification of documents from group [A23C 21/08](#).

Groups [A23C 21/08](#) and [A23B 11/87](#) should be considered in order to perform a complete search.

- 11/88 . . containing inorganic additives

**WARNING**

Group [A23B 11/88](#) is incomplete pending reclassification of documents from group [A23C 21/10](#).

Groups [A23C 21/10](#) and [A23B 11/88](#) should be considered in order to perform a complete search.

**20/00 Preservation of edible oils or fats**

**WARNING**

Group [A23B 20/00](#) is incomplete pending reclassification of documents from groups [A23D 7/00](#) and [A23D 9/00](#).

Groups [A23D 7/00](#), [A23D 9/00](#) and [A23B 20/00](#) should be considered in order to perform a complete search.

- 20/10 . Preservation of edible oil or fat compositions containing an aqueous phase, e.g. margarines

- 20/30 . Preservation of other edible oils or fats, e.g. shortenings or cooking oils

**40/00 Preservation of flour or dough before baking**

**WARNING**

Group [A23B 40/00](#) is incomplete pending reclassification of documents from groups [A21D 6/00](#), [A21D 6/006](#) and [A21D 6/008](#).

Group [A23B 40/00](#) is also impacted by reclassification into groups [A23B 40/10](#), [A23B 40/30](#), [A23B 40/50](#) and [A23B 40/60](#).

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

- 40/10 . by cooling

**WARNING**

Group [A23B 40/10](#) is incomplete pending reclassification of documents from groups [A23B 40/00](#), [A21D 6/00](#) and [A21D 6/001](#).

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

- 40/30 . by heating

**WARNING**

Group [A23B 40/30](#) is incomplete pending reclassification of documents from groups [A23B 40/00](#), [A21D 6/00](#) and [A21D 6/003](#).

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

- 40/50 . by irradiation

**WARNING**

Group [A23B 40/50](#) is incomplete pending reclassification of documents from groups [A23B 40/00](#), [A21D 6/00](#) and [A21D 6/005](#).

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

- 40/60 . by storage in an inert atmosphere

**WARNING**

Group [A23B 40/60](#) is incomplete pending reclassification of documents from groups [A23B 40/00](#) and [A21D 6/00](#).

Groups [A23B 40/00](#), [A21D 6/00](#) and [A23B 40/60](#) should be considered in order to perform a complete search.

**45/00 Preservation of finished bakery products**

**WARNING**

Group [A23B 45/00](#) is incomplete pending reclassification of documents from group [A21D 15/00](#).

Groups [A21D 15/00](#) and [A23B 45/00](#) should be considered in order to perform a complete search.

- 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.

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