

# CPC COOPERATIVE PATENT CLASSIFICATION

## A HUMAN NECESSITIES

### FOODSTUFFS; TOBACCO

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

(NOTE omitted)

#### A23N MACHINES OR APPARATUS FOR TREATING HARVESTED FRUIT, VEGETABLES OR FLOWER BULBS IN BULK, NOT OTHERWISE PROVIDED FOR; PEELING VEGETABLES OR FRUIT IN BULK; APPARATUS FOR PREPARING ANIMAL FEEDING-STUFFS (machines for cutting straw or fodder [A01F 29/00](#); disintegrating, e.g. shredding, [B02C](#); severing, e.g. cutting, splitting, slicing [B26B](#), [B26D](#))

##### 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.

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| <p><b>1/00</b>     <b>Machines or apparatus for extracting juice</b><br/>(preparation of non-alcoholic beverages, e.g. by adding ingredients to fruit or vegetable juices, <a href="#">A23L 2/00</a>; apparatus for making beverages <a href="#">A47J 31/00</a> {centrifuges <a href="#">B04B</a>}; extracting presses <a href="#">B30B</a>)</p> <p>1/003     . {especially for citrus fruits}</p> <p>1/006     . {by electropasmolysis (preserving of fruit or vegetables by electropasmolytic treatment <a href="#">A23B 7/015</a>)}</p> <p>1/02       . combined with disintegrating or cutting</p> <p><b>3/00</b>     <b>Machines for coring or stoning fruit, characterised by their feeding device</b> (<a href="#">A23N 4/00</a> takes precedence {; kitchen devices for stoning fruit <a href="#">A47J 25/00</a>})</p> <p>3/02       . with feeder-drums</p> <p>3/04       . with endless feeder-belts</p> <p>3/06       . with feeder-tables</p> <p><b>4/00</b>     <b>Machines for stoning fruit or removing seed-containing sections from fruit, characterised by their stoning or removing device</b> (for peeling fruit and removing seed-containing sections <a href="#">A23N 7/08</a>; domestic devices for stoning fruit <a href="#">A47J 23/00</a>, for coring fruit <a href="#">A47J 25/00</a>)</p> <p>4/02       . for stoning fruit</p> <p>4/04       . . for peaches, plums, apricots or the like</p> <p>4/06       . . for cherries or the like (<a href="#">A23N 4/04</a> takes precedence)</p> <p>4/08       . . for dates, olives or the like oblong fruits</p> <p>4/085      . . . {for olives}</p> <p>4/10       . . for fruit with very small pips, e.g. raisins</p> <p>4/12       . for coring fruit {(for household appliances <a href="#">B26B</a>)}</p> <p>4/14       . . for apples, pears or the like</p> <p>4/16       . . for tomatoes or the like</p> <p>4/18       . . for citrus fruits</p> <p>4/20       . . for pineapples</p> <p>4/22       . for both splitting and stoning</p> | <p>4/24       . for removing seed-containing sections from cut fruit {(material in <a href="#">A23N 4/12</a>)}</p> <p><b>5/00</b>     <b>Machines for hulling, husking or cracking nuts</b><br/>{(household nutcrackers <a href="#">A47J 43/26</a>)}</p> <p>5/002      . {for skinning nut kernels}</p> <p>5/004      . {for palmnuts (<a href="#">A23N 5/002</a> and <a href="#">A23N 5/08</a> take precedence)}</p> <p>5/006      . {for chestnuts (<a href="#">A23N 5/002</a> and <a href="#">A23N 5/08</a> take precedence)}</p> <p>5/008      . {for almonds (<a href="#">A23N 5/002</a> and <a href="#">A23N 5/08</a> take precedence)}</p> <p>5/01       . for peanuts</p> <p>5/03       . for coconuts (<a href="#">A23N 5/08</a> takes precedence)</p> <p>5/08       . for removing fleshy or fibrous hulls of nuts (for peanuts <a href="#">A23N 5/01</a>)</p> <p><b>7/00</b>     <b>Peeling vegetables or fruit</b> (devices for skinning onions <a href="#">A23N 15/08</a>; {peeling by non-mechanical means <a href="#">A23P</a>}; peeling machines of the household type <a href="#">A47J 17/00</a>)</p> <p>7/002      . {Peeling pinaeapples (<a href="#">A23N 7/005</a> and <a href="#">A23N 7/01</a> take precedence)}</p> <p>7/005      . {Peeling with steam}</p> <p>2007/007 . {Brush rollers for peeling fruit or vegetables}</p> <p>7/01       . using chemical substances, e.g. lye</p> <p>7/02       . Peeling potatoes, apples or similarly shaped vegetables or fruit ({<a href="#">A23N 7/005</a> and} <a href="#">A23N 7/01</a> take precedence)</p> <p>7/023      . . {one by one}</p> <p>7/026      . . . {Peeling machines therefor with rotary fruit holding spindles and fixed or movable peeler blades}</p> <p>7/04       . Peeling asparagus ({<a href="#">A23N 7/005</a> and} <a href="#">A23N 7/01</a> take precedence)</p> <p>7/08       . for peeling fruit and removing seed-containing sections</p> <p>7/10       . Driving mechanisms</p> <p><b>11/00</b>    <b>Removing pith from stems</b></p> |
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<b>12/00</b>	<b>Machines for cleaning, blanching, drying or roasting fruits or vegetables, e.g. coffee, cocoa, nuts</b> (methods for treating, e.g. roasting, coffee or cocoa, <a href="#">A23F</a> , <a href="#">A23G</a> ; cleaning, e.g. washing, or drying grain <a href="#">B02B 1/00</a> ; separating solids from solids for cleaning <a href="#">B07B</a> ; cleaning in general <a href="#">B08B</a> ; heating devices <a href="#">per se</a> , <a href="#">see the relevant classes</a> , e.g. <a href="#">F24</a> ; drying machines in general <a href="#">F26B</a> )	17/008	• {for treating of silage, e.g. upgrading with water}
		17/02	• Fodder mashers (household implements for mashing potatoes or other foodstuffs <a href="#">A47J 19/04</a> )
12/005	• {for dry-cleaning}		
12/02	• for washing or blanching ( <a href="#">A23N 12/06</a> takes precedence; blanching methods <a href="#">A23B 7/06</a> )		
12/023	• . {for washing potatoes, apples or similarly shaped vegetables or fruit (washing grain <a href="#">B02B 1/04</a> )}		
12/026	• . . {Stone-gatherers or cleaning devices for the washing machines}		
12/04	• . for blanching		
12/06	• for washing or blanching, combined with subsequent drying		
12/08	• for drying or roasting ( <a href="#">A23N 12/06</a> takes precedence)		
12/083	• . {with stirring, vibrating or grinding devices}		
12/086	• . {with centrifuging devices}		
12/10	• . Rotary roasters		
12/12	• . Auxiliary devices for roasting machines		
12/125	• . . {Accessories or details}		
<b>15/00</b>	<b>Machines or apparatus for other treatment of fruits or vegetables for human purposes; Machines or apparatus for topping or skinning flower bulbs</b> {(treatment of coffee, other than drying or roasting <a href="#">A23F</a> ; treatment of cocoa <a href="#">A23G 1/02</a> )}		
15/001	• {for trimming artichokes}		
15/003	• {for trimming cauliflowers, broccoli or cabbages}		
15/005	• {for pricking peas or beans}		
2015/006	• {Singularising cherries or other clustered fruit and vegetables}		
2015/008	• {Sorting of fruit and vegetables}		
15/01	• for stripping Brussels' sprouts from stalks		
15/02	• for stemming, piercing, or stripping fruit {(for household appliances <a href="#">A47J 21/00</a> )}; Removing sprouts of potatoes		
15/025	• . {for stemming grapes}		
15/04	• Devices for topping fruit or vegetables (topping onions <a href="#">A23N 15/08</a> )		
15/045	• . {Devices for topping mushrooms}		
15/06	• Devices for other treatment of fruit, e.g. marking, maturing, polishing		
15/08	• Devices for topping or skinning onions or flower bulbs		
15/10	• for shelling peas or beans		
15/12	• for snipping or stringing beans		
<b>17/00</b>	<b>Apparatus specially adapted for preparing animal feeding-stuffs</b> {(automatic devices for the distribution of liquid fodder for stock or game <a href="#">A01K 5/0216</a> ; sucking apparatus for young stock <a href="#">A01K 9/00</a> )}		
17/001	• {by treating with chemicals, e.g. ammoniac, sodium hydroxide (processes <a href="#">A23K 10/32</a> )}		
17/002	• {for treating of meat, fish waste or the like}		
17/004	• {for treating by application of heat, e.g. by means of potato cookers (drying <a href="#">F26B</a> )}		
17/005	• {for shaping by moulding, extrusion, pressing, e.g. pellet-mills (processes <a href="#">A23K 40/00</a> ; presses in general <a href="#">B30B</a> )}		
17/007	• {for mixing feeding-stuff components}		