

CPC COOPERATIVE PATENT CLASSIFICATION

A HUMAN NECESSITIES

FOODSTUFFS; TOBACCO

A23 FOODS OR FOODSTUFFS; TREATMENT THEREOF, 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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| 1/00 | Machines or apparatus for extracting juice (preparation of non-alcoholic beverages, e.g. by adding ingredients to fruit or vegetable juices, A23L 2/00 ; apparatus for making beverages A47J 31/00 {centrifuges B04B }; extracting presses B30B) | 4/24 | <ul style="list-style-type: none"> for removing seed-containing sections from cut fruit {(material in A23N 4/12)} |
| 1/003 | <ul style="list-style-type: none"> {especially for citrus fruits} | 5/00 | Machines for hulling, husking or cracking nuts {(household nutcrackers A47J 43/26)} |
| 1/006 | <ul style="list-style-type: none"> {by electropasmolysis (preserving of fruit or vegetables by electropasmolytic treatment A23B 7/015)} | 5/002 | <ul style="list-style-type: none"> {for skinning nut kernels} |
| 1/02 | <ul style="list-style-type: none"> combined with disintegrating or cutting | 5/004 | <ul style="list-style-type: none"> {for palmnuts (A23N 5/002 and A23N 5/08 take precedence)} |
| 3/00 | Machines for coring or stoning fruit, characterised by their feeding device (A23N 4/00 takes precedence {; kitchen devices for stoning fruit A47J 25/00 }) | 5/006 | <ul style="list-style-type: none"> {for chestnuts (A23N 5/002 and A23N 5/08 take precedence)} |
| 3/02 | <ul style="list-style-type: none"> with feeder-drums | 5/008 | <ul style="list-style-type: none"> {for almonds (A23N 5/002 and A23N 5/08 take precedence)} |
| 3/04 | <ul style="list-style-type: none"> with endless feeder-belts | 5/01 | <ul style="list-style-type: none"> for peanuts |
| 3/06 | <ul style="list-style-type: none"> with feeder-tables | 5/03 | <ul style="list-style-type: none"> for coconuts (A23N 5/08 takes precedence) |
| 4/00 | Machines for stoning fruit or removing seed-containing sections from fruit, characterised by their stoning or removing device (for peeling fruit and removing seed-containing sections A23N 7/08 ; domestic devices for stoning fruit A47J 23/00 , for coring fruit A47J 25/00) | 5/08 | <ul style="list-style-type: none"> for removing fleshy or fibrous hulls of nuts (for peanuts A23N 5/01) |
| 4/02 | <ul style="list-style-type: none"> for stoning fruit | 7/00 | Peeling vegetables or fruit (devices for skinning onions A23N 15/08 ; {peeling by non-mechanical means A23P }; peeling machines of the household type A47J 17/00) |
| 4/04 | <ul style="list-style-type: none"> for peaches, plums, apricots or the like | 7/002 | <ul style="list-style-type: none"> {Peeling pinaeapples (A23N 7/005 and A23N 7/01 take precedence)} |
| 4/06 | <ul style="list-style-type: none"> for cherries or the like (A23N 4/04 takes precedence) | 7/005 | <ul style="list-style-type: none"> {Peeling with steam} |
| 4/08 | <ul style="list-style-type: none"> for dates, olives or the like oblong fruits | 2007/007 | <ul style="list-style-type: none"> {Brush rollers for peeling fruit or vegetables} |
| 4/085 | <ul style="list-style-type: none"> {for olives} | 7/01 | <ul style="list-style-type: none"> using chemical substances, e.g. lye |
| 4/10 | <ul style="list-style-type: none"> for fruit with very small pips, e.g. raisins | 7/02 | <ul style="list-style-type: none"> Peeling potatoes, apples or similarly shaped vegetables or fruit ({A23N 7/005 and} A23N 7/01 take precedence) |
| 4/12 | <ul style="list-style-type: none"> for coring fruit {(for household appliances B26B)} | 7/023 | <ul style="list-style-type: none"> {one by one} |
| 4/14 | <ul style="list-style-type: none"> for apples, pears or the like | 7/026 | <ul style="list-style-type: none"> {Peeling machines therefor with rotary fruit holding spindles and fixed or movable peeler blades} |
| 4/16 | <ul style="list-style-type: none"> for tomatoes or the like | 7/04 | <ul style="list-style-type: none"> Peeling asparagus ({A23N 7/005 and} A23N 7/01 take precedence) |
| 4/18 | <ul style="list-style-type: none"> for citrus fruits | 7/08 | <ul style="list-style-type: none"> for peeling fruit and removing seed-containing sections |
| 4/20 | <ul style="list-style-type: none"> for pineapples | 7/10 | <ul style="list-style-type: none"> Driving mechanisms |
| 4/22 | <ul style="list-style-type: none"> for both splitting and stoning | 11/00 | Removing pith from stems |

12/00	Machines for cleaning, blanching, drying or roasting fruits or vegetables, e.g. coffee, cocoa, nuts (methods for treating, e.g. roasting, coffee or cocoa, A23F , A23G ; cleaning, e.g. washing, or drying grain B02B 1/00 ; separating solids from solids for cleaning B07B ; cleaning in general B08B ; heating devices <i>per se</i> , <i>see the relevant classes</i> , e.g. F24 ; drying machines in general F26B)	17/008	• {for treating of silage, e.g. upgrading with water}
		17/02	• Fodder mashers (household implements for mashing potatoes or other foodstuffs A47J 19/04)
12/005	• {for dry-cleaning}		
12/02	• for washing or blanching (A23N 12/06 takes precedence; blanching methods A23B 7/06)		
12/023	• . {for washing potatoes, apples or similarly shaped vegetables or fruit (washing grain B02B 1/04)}		
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 (A23N 12/06 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}		
15/00	Machines or apparatus for other treatment of fruits or vegetables for human purposes; Machines or apparatus for topping or skinning flower bulbs {(treatment of coffee, other than drying or roasting A23F ; treatment of cocoa A23G 1/02)}		
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 A47J 21/00)}; Removing sprouts of potatoes		
15/025	• . {for stemming grapes}		
15/04	• Devices for topping fruit or vegetables (topping onions A23N 15/08)		
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		
17/00	Apparatus specially adapted for preparing animal feeding-stuffs {(automatic devices for the distribution of liquid fodder for stock or game A01K 5/0216 ; sucking apparatus for young stock A01K 9/00)}		
17/001	• {by treating with chemicals, e.g. ammoniac, sodium hydroxide (processes A23K 10/32)}		
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 F26B)}		
17/005	• {for shaping by moulding, extrusion, pressing, e.g. pellet-mills (processes A23K 40/00 ; presses in general B30B)}		
17/007	• {for mixing feeding-stuff components}		