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.

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 B06B]; extracting presses B05B)
1/003  . (especially for citrus fruits)
1/006  . (by electroplasmolysis (preserving of fruit or vegetables by electroplasmolytic treatment A23B 7/015))
1/02  . combined with disintegrating or cutting

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])
3/02  . with feeder-drums
3/04  . with endless feeder-belts
3/06  . with feeder-tables

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)
4/02  . for stoning fruit
4/04  . . [for olives]
4/06  . . for peaches, plums, apricots or the like
4/08  . . for dates, olives or the like oblong fruits
4/085  . . . [for olives]
4/10  . . for fruit with very small pips, e.g. raisins
4/12  . . for coring fruit (for household appliances B26B)
4/14  . . for apples, pears or the like
4/16  . . for tomatoes or the like
4/18  . . for citrus fruits
4/20  . . for pineapples
4/22  . for both splitting and stoning

4/24  . for removing seed-containing sections from cut fruit (material in A23N 4/12)

5/00  Machines for hulling, husking or cracking nuts
{ (household nutcrackers A47J 43/26) }
5/002  . [for skinning nut kernels]
5/004  . [for palmnuts (A23N 5/002 and A23N 5/08 take precedence)]
5/006  . [for chestnuts (A23N 5/002 and A23N 5/08 take precedence)]
5/008  . [for almonds (A23N 5/002 and A23N 5/08 take precedence)]
5/01  . for peanuts
5/03  . for coconuts (A23N 5/08 takes precedence)
5/08  . for removing fleshy or fibrous hulls of nuts (for peanuts A23N 5/01)

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)
7/002  . [Peeling pineapples (A23N 7/005 and A23N 7/01 take precedence)]
7/005  . [Peeling with steam]
7/007  . [Brush rollers for peeling fruit or vegetables]
7/01  . using chemical substances, e.g. lye
7/02  . Peeling potatoes, apples or similarly shaped vegetables or fruit ([A23N 7/005 and A23N 7/01 take precedence])
7/023  . . [one by one]
7/026  . . [Peeling machines therefor with rotary fruit holding spindles and fixed or movable peeler blades]
7/04  . Peeling asparagus ([A23N 7/005 and A23N 7/01 take precedence])
7/08  . for peeling fruit and removing seed-containing sections
7/10  . Driving mechanisms

11/00  Removing pith from stems
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 per se, see the relevant classes, e.g. F24; drying machines in general F26B)

for dry-cleaning

for washing or blanching (A23N 12/06 takes precedence; blanching methods A23B 7/06)

for washing potatoes, apples or similarly shaped vegetables or fruit (washing grain B02B 1/04)

{Stone-gatherers or cleaning devices for the washing machines}

for blanching

for washing or blanching, combined with subsequent drying

for drying or roasting (A23N 12/06 takes precedence)

{with stirring, vibrating or grinding devices}

{with centrifuging devices}

Rotary roasters

Auxiliary devices for roasting machines

{Accessories or details}

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)

{for trimming artichokes}

{for trimming cauliflowers, broccoli or cabbages}

{for pricking peas or beans}

{Singularising cherries or other clustered fruit and vegetables}

{for stripping Brussels' sprouts from stalks

for stemming, piercing, or stripping fruit (for household appliances A47J 21/00); Removing sprouts of potatoes

{for stemming grapes

Devices for topping fruit or vegetables (topping onions A23N 15/08

{Devices for topping mushrooms

Devices for other treatment of fruit, e.g. marking, maturing, polishing

Devices for topping or skinning onions or flower bulbs

for shelling peas or beans

for snipping or stringing beans

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)

{by treating with chemicals, e.g. ammoniac, sodium hydroxide (processes A23K 10/32)

{for treating of meat, fish waste or the like

{for treating by application of heat, e.g. by means of potato cookers (drying F26B)

{for shaping by moulding, extrusion, pressing, e.g. pellet-mills (processes A23K 40/00; presses in general B30B)

{for mixing feeding-stuff components

Fodder mashers (household implements for mashing potatoes or other foodstuffs A47J 19/04)