

CPC COOPERATIVE PATENT CLASSIFICATION

A HUMAN NECESSITIES

AGRICULTURE

A01 AGRICULTURE; FORESTRY; ANIMAL HUSBANDRY; HUNTING; TRAPPING; FISHING

A01G HORTICULTURE; CULTIVATION OF VEGETABLES, FLOWERS, RICE, FRUIT, VINES, HOPS OR SEAWEED; FORESTRY; WATERING (picking of fruits, vegetables, hops or the like [A01D 46/00](#); propagating unicellular algae [C12N 1/12](#))

WARNINGS

- The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
[A01G 33/02](#) covered by [A01G 33/00](#)
- {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	Vegetative propagation (plant reproduction by tissue culture techniques A01H 4/00)	2003/0461	. . {with reciprocating knives}
2/10	. by means of cuttings	3/047	. . portable
2/20	. Layering	3/0475	. . . {Hedge shears}
2/30	. Grafting (grafting-wax A01N 3/04)	3/053	. . . motor-driven
2/32	. . Automatic apparatus therefor	3/0535 {with rotatable knives}
2/35	. . Cutting; Inserting	3/06	. Hand-held edge trimmers or shears for lawns
2/38	. . Holding; Ligating	3/062	. . {Motor-driven edge trimmers}
3/00	Cutting implements specially adapted for horticultural purposes; Delimiting standing trees (forestry delimiters A01G 23/095)	3/065	. . {Hand operated shears for lawns}
3/002	. {for comminuting plant waste}	3/067	. . {Motor-driven shears for lawns}
2003/005	. {Removing buds}	3/08	. Other tools for pruning, branching or delimiting standing trees
2003/007	. {Using spray}	3/081	. . {Manual cutting tools not otherwise provided for, e.g. pruning hooks}
3/02	. Secateurs; Flower or fruit shears	3/083	. . {Manual pruning saws}
3/021	. . {characterized by the arrangement of pivots}	3/085	. . {Motor-driven saws for pruning or branching}
2003/023	. . {with means for grasping or collecting the cut objects}	3/086	. . . {Chain saws}
3/025	. . having elongated or extended handles	3/088	. . . {Circular saws}
3/0251	. . . {Loppers, i.e. branch cutters with two handles (hedge shears A01G 3/0475)}	5/00	Floral handling
3/0255	. . . {Tree pruners, i.e. pruning shears carried at the end of a pole}	2005/005	. {Thorn removers}
3/033	. . having motor-driven blades	5/02	. Apparatus for binding bouquets or wreaths
3/0335	. . . {having elongated or extended handles}	5/04	. Mountings for wreaths, or the like; Racks or holders for flowers
3/037	. . . the driving means being an electric motor	5/06	. Devices for preserving flowers
3/04	. Apparatus for trimming hedges, e.g. hedge shears	7/00	Botany in general
3/0408	. . {specially adapted for trellis work, e.g. machines for pruning vine or the like (preliminary pruning vines A01G 17/023 ; defoliating machines A01G 17/026)}	7/02	. Treatment of plants with carbon dioxide
3/0417	. . {Guiding frames for trimming hedges}	7/04	. Electric or magnetic {or acoustic} treatment of plants for promoting growth
3/0426	. . {Machines for pruning vegetation on embankments and road-sides}	7/045	. . {with electric lighting}
3/0435	. . {Machines specially adapted for shaping plants, e.g. topiaries}	7/06	. Treatment of growing trees or plants, e.g. for preventing decay of wood, for tingeing flowers or wood, for prolonging the life of plants
2003/0443	. . {with height-adjustable platforms}	9/00	Cultivation in receptacles, forcing-frames or greenhouses (of mushrooms A01G 18/00; soilless cultivation A01G 31/00); Edging for beds, lawn or the like
2003/0452	. . {with platforms for persons}	9/006	. {Plant receptacles specially adapted as labels or label holders}

- 9/02 . Receptacles, e.g. flower-pots or boxes ([self-acting watering devices A01G 27/00](#); [hanging flower baskets, holders or containers for flower-pots A47G 7/00](#)); Glasses for cultivating flowers
- 9/021 . . {Pots formed in one piece; Materials used therefor}
- 9/022 . . {Pots for vertical horticulture}
- 9/023 . . . {Multi-tiered planters}
- 9/024 . . . {Hanging flower pots and baskets}
- 9/025 . . . {Containers and elements for greening walls ([for covering roofs A01G 9/033](#))}
- 9/026 . . {Foldable pots}
- 9/027 . . {Pots connected in horizontal rows}
- 9/028 . . {Multi-compartmented pots}
- 9/029 . . Receptacles for seedlings ([growth substrates in block form A01G 24/44](#))
- 9/0291 . . . {Planting receptacles specially adapted for remaining in the soil after planting}
- 9/0293 . . . {Seed or shoot receptacles}
- 9/0295 . . . {Units comprising two or more connected receptacles}
- 9/0297 . . . {Grids for supporting several receptacles}
- 9/0299 . . . {Handling or transporting of soil blocks or seedlings}
- 9/0302 . . {Receptacles consisting of separable sections, e.g. for allowing easy removal of the plant}
- 9/033 . . Flat containers for turf, lawn or the like, e.g. for covering roofs
- 9/04 . Flower-pot saucers
- 9/042 . . {Combinations of a saucer and a flower pot attached together}
- 9/045 . . {Trays for receiving multiple pots}
- 9/047 . . {Channels or gutters, e.g. for hydroponics}
- WARNING**
- Group [A01G 9/047](#) is incomplete pending reclassification of documents from group [A01G 31/02](#).
- Groups [A01G 31/02](#) and [A01G 9/047](#) should be considered in order to perform a complete search.
- 9/06 . Devices for cleaning flower-pots
- 9/08 . Devices for filling-up flower-pots {or pots for seedlings}; Devices for setting plants {or seeds} in pots
- 9/081 . . {Devices for filling-up pots}
- 9/083 . . {Devices for setting plants in pots}
- 9/085 . . {Devices for setting seeds in pots}
- 9/086 . . {Devices for repotting}
- 9/088 . . {Handling or transferring pots}
- 9/12 . Supports for plants; Trellis for strawberries or the like ([stays for trees, props for vines A01G 17/14](#))
- 9/122 . . {Stakes}
- 9/124 . . . {Means for holding stakes upright in, on, or beside pots}
- 9/126 . . {Wirespool supports}
- 9/128 . . {Fixing of plants to supports, e.g. by means of clips ([tying devices in trellis-work A01G 17/08](#))}
- 9/14 . Greenhouses
- 9/1407 . . {of flexible synthetic material}
- 9/1415 . . . {with double or multiple walls}
- 9/1423 . . {Greenhouse bench structures}
- 9/143 . . {Equipment for handling produce in greenhouses}
- 9/1438 . . {Covering materials therefor; Materials for protective coverings used for soil and plants, e.g. films, canopies, tunnels or cloches}
- 2009/1446 . . . {with perforations}
- 2009/1453 . . . {containing textile products}
- 2009/1461 . . . {containing woven structures}
- 9/1469 . . {with double or multiple walls}
- 9/1476 . . {Greenhouse gutters ([gutters in general E04D 13/064](#))}
- 2009/1484 . . {Glazing apparatus}
- 2009/1492 . . {Cleaning apparatus}
- 9/16 . . Dismountable or portable greenhouses {; Greenhouses with sliding roofs}
- 9/18 . Greenhouses for treating plants with carbon dioxide or the like
- 9/20 . Forcing-frames; Lights {, i.e. glass panels covering the forcing-frames}
- 9/22 . Shades or blinds for greenhouses, or the like
- 9/222 . . {Lamellar or like blinds ([in general E06B 9/26](#))}
- 9/225 . . {Inflatable structures}
- 9/227 . . {rolled up during non-use ([in general E06B 9/08](#))}
- 9/24 . Devices {or systems} for heating, ventilating, regulating temperature {, illuminating}, or watering, in greenhouses, forcing-frames, or the like
- 9/241 . . {Arrangement of opening or closing systems for windows and ventilation panels}
- 9/242 . . . {for greenhouses with flexible coverings}
- 9/243 . . {Collecting solar energy ([in general F24S](#))}
- 9/245 . . {Conduits for heating by means of liquids, e.g. used as frame members or for soil heating}
- 9/246 . . {Air-conditioning systems}
- 9/247 . . {Watering arrangements}
- 2009/248 . . {with distillation of water}
- 9/249 . . {Lighting means ([with special arrangements for promoting growth A01G 7/045](#))}
- 9/26 . . Electric devices {([A01G 9/249 takes precedence](#))}
- 9/28 . Raised beds; Planting beds; Edging elements for beds, lawn or the like, e.g. tiles
- 11/00 Sterilising soil by steam**
- 13/00 Protection of plants ([greenhouses A01G 9/14](#))**
- 2013/004 . . {Liquid mulch}
- 13/06 . Devices for generating heat, smoke or fog in gardens, orchards or forests, e.g. to prevent damage by frost
- 13/065 . . {Frost protection by generating fog or by spraying}
- 13/08 . Mechanical apparatus for circulating the air
- 13/10 . Devices for affording protection against animals, birds or other pests ([scaring or repelling devices A01M 29/00](#))
- 13/105 . . {Protective devices against slugs, snails, crawling insects or other climbing animals}
- 13/20 . Protective coverings for plants
- 13/21 . . providing overhead protection, i.e. canopies
- 13/22 . . . for individual plants
- 13/23 . . providing lateral protection, e.g. from wind
- 13/24 . . Tunnels for covering rows of plants
- 13/26 . . Cloches

- 13/262 . . . {with flexible coverings}
- 13/264 . . . {foldable}
- 13/27 . . protecting specific parts of plants, e.g. roots, trunks or fruits
- 13/28 . . protecting young plants
- 13/29 . . Arrangements for laying out or removing plant coverings
- 13/30 . Ground coverings
- WARNING**
- Group [A01G 13/30](#) is impacted by reclassification into group [A01G 13/39](#).
- Groups [A01G 13/30](#) and [A01G 13/39](#) should be considered in order to perform a complete search.
- 13/31 . . for individual plants
- 13/32 . . Mats; Nets; Sheets or films
- WARNING**
- Group [A01G 13/32](#) is impacted by reclassification into groups [A01G 13/33](#) and [A01G 13/39](#).
- Groups [A01G 13/32](#), [A01G 13/33](#) and [A01G 13/39](#) should be considered in order to perform a complete search.
- 13/33 . . . Sheets or films
- WARNING**
- Group [A01G 13/33](#) is incomplete pending reclassification of documents from group [A01G 13/32](#).
- Group [A01G 13/33](#) is also impacted by reclassification into group [A01G 13/39](#).
- Groups [A01G 13/32](#), [A01G 13/33](#) and [A01G 13/39](#) should be considered in order to perform a complete search.
- 13/35 . . Mulches, i.e. loose material
- 13/37 . . Arrangements for laying out or removing ground coverings
- WARNING**
- Group [A01G 13/37](#) is impacted by reclassification into group [A01G 13/39](#).
- Groups [A01G 13/37](#) and [A01G 13/39](#) should be considered in order to perform a complete search.
- 13/372 . . . {for removing ground coverings}
- 13/38 . . Anchoring means for ground coverings
- 13/39 . . Arrangements for perforating installed ground coverings
- WARNING**
- Group [A01G 13/39](#) is incomplete pending reclassification of documents from groups [A01G 13/30](#), [A01G 13/32](#), [A01G 13/33](#) and [A01G 13/37](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 15/00 Devices or methods for influencing weather conditions**
- 17/00 Cultivation of hops, vines, fruit trees, or like trees**
- 17/005 . {Cultivation methods}
- 17/02 . Cultivation of hops or vines
- 17/023 . . {Machines for priming and/or preliminary pruning of vines, i.e. removing shoots and/or buds (trimming apparatus for trellis work [A01G 3/0408](#))}
- 17/026 . . {Machines for removing leaves of vines}
- 17/04 . Supports for hops, vines, or trees
- 17/06 . . Trellis-work
- 2017/065 . . . {Trellis-work for supporting vines having wire-tensioning devices}
- 17/08 . . . Tools {e.g. clips} for attaching hops, vines, or boughs to trellis-work; Tying devices
- 17/085 {Espalier machines; Tying machines}
- 17/10 . . Holders for boughs or branches
- 17/12 . . Tree-bands
- 17/14 . . Props; Stays
- 17/16 . . . Devices for driving-in or pulling-out props
- 17/18 . Means for filling-up wounds in trees
- 18/00 Cultivation of mushrooms**
- 18/10 . Mycorrhiza; Mycorrhizal associations
- 18/20 . Culture media, e.g. compost
- 18/22 . . Apparatus for the preparation of culture media, e.g. bottling devices
- 18/30 . Accessories for use before inoculation of spawn, e.g. sterilisers
- 18/40 . Cultivation of spawn
- 18/50 . Inoculation of spawn
- 18/55 . . Forming inoculation holes
- 18/60 . Cultivation rooms; Equipment therefor
- 18/61 . . Growth guides for fruiting bodies, e.g. paper rolls
- 18/62 . . Racks; Trays
- 18/64 . . Cultivation containers; Lids therefor
- 18/65 . . . characterised by the lids, e.g. lids with filters
- 18/66 . . . Cultivation bags
- 18/68 . . . Cultivation bottles
- 18/69 . . Arrangements for managing the environment, e.g. sprinklers
- 18/70 . Harvesting
- 18/80 . Accessories for use after harvesting, e.g. scrapers
- 20/00 Cultivation of turf, lawn or the like; Apparatus or methods therefor (hand-held edge trimmers or shears for lawn [A01G 3/06](#); edging for lawn [A01G 9/28](#); lawn-mowers [A01D 34/00](#))**
- 20/10 . Pre-cultivated sod or turf; Apparatus therefor
- 20/12 . . Apparatus for cutting sods or turfs
- 20/15 . . . specially adapted for stacking sods or sod rolls
- 20/18 . . Apparatus for laying sods or turfs
- 20/20 . Cultivation on mats
- 20/30 . Apparatus for treating the lawn or grass surface (machines for aerating lawns [A01B 45/02](#))
- 20/35 . . Garden rollers

- 20/40 . Apparatus for cleaning the lawn or grass surface
- WARNING**
- Group [A01G 20/40](#) is impacted by reclassification into groups [A01D 7/00](#), [A01D 7/02](#), [A01D 7/04](#), [A01D 7/06](#), [A01D 7/08](#) and [A01D 7/10](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 20/43 . . for sweeping, collecting or disintegrating lawn debris
- 20/47 . . . Vacuum or blower devices
- 22/00 Cultivation of specific crops or plants not otherwise provided for**
- WARNING**
- Group [A01G 22/00](#) is impacted by reclassification into group [A01G 22/705](#).
- Groups [A01G 22/00](#) and [A01G 22/705](#) should be considered in order to perform a complete search.
- 22/05 . Fruit crops, e.g. strawberries, tomatoes or cucumbers
- 22/10 . Asparagus
- 22/15 . Leaf crops, e.g. lettuce or spinach
- 22/20 . Cereals
- 22/22 . . Rice
- 22/25 . Root crops, e.g. potatoes, yams, beet or wasabi
- 22/30 . Moss
- 22/35 . Bulbs; Alliums, e.g. onions or leeks
- 22/40 . Fabaceae, e.g. beans or peas
- 22/45 . Tobacco
- 22/50 . Cotton
- 22/55 . Sugar cane
- 22/60 . Flowers; Ornamental plants
- 22/63 . . Orchids
- 22/67 . . Dwarf trees, e.g. bonsai
- 22/705 . {[Cannabis](#)}
- WARNING**
- Group [A01G 22/705](#) is incomplete pending reclassification of documents from group [A01G 22/00](#).
- Groups [A01G 22/00](#) and [A01G 22/705](#) should be considered in order to perform a complete search.
- 23/00 Forestry**
- 23/003 . {[Collecting felled trees](#)}
- 23/006 . . {[Log skidders](#)}
- 23/02 . Transplanting, uprooting, felling or delimiting trees ([delimiting standing trees A01G 3/00](#))
- 23/04 . . Transplanting trees; Devices for grasping the root ball, e.g. stump forceps; Wrappings or packages for transporting trees
- 23/043 . . . {[Transplanting devices for grasping, undercutting or transporting the root ball \(A01G 23/046 takes precedence\)](#)}
- 23/046 . . . {[Transplanting devices using elements to be driven into the ground for making a container around the root ball](#)}
- 23/06 . . Uprooting or pulling up trees; Extracting or eliminating stumps
- 23/062 . . . {[Pulling up trees or stumps](#)}
- 23/065 {[in a substantially vertical plane](#)}
- 23/067 . . . {[by comminuting the tree stumps](#)}
- 23/08 . . Felling trees
- 23/081 . . . Feller-bunchers, i.e. with bunching by felling head ([A01G 23/083 takes precedence](#))
- 23/083 . . . Feller-delimiters
- 23/085 having the shearing head mounted on a first boom and the delimiting head mounted on a second boom
- 23/087 . . . Shearing apparatus or the like specially adapted for felling trees ([A01G 23/081](#), [A01G 23/083](#), [A01G 23/093 take precedence](#))
- 23/089 having two or more shears
- 23/09 of the percussion type
- 23/091 . . . Sawing apparatus specially adapted for felling trees ([A01G 23/081](#), [A01G 23/083](#), [A01G 23/093 take precedence](#))
- 23/093 . . . Combinations of shearing, sawing or milling apparatus specially adapted for felling trees
- 23/095 . . Delimiters ([A01G 23/083 takes precedence](#))
- 23/0955 . . . {[Self-propelled along standing trees](#)}
- 23/097 . . . having a fixed delimiting head
- 23/099 . . Auxiliary devices, e.g. felling wedges
- 23/10 . Tapping of tree-juices, e.g. caoutchouc, gum
- 23/12 . . Knives or axes for tapping
- 23/14 . . Tapping-spouts; Receptacles for juices
- 24/00 Growth substrates; Culture media; Apparatus or methods therefor (for mushrooms [A01G 18/20](#))**
- 24/10 . based on or containing inorganic material
- 24/12 . . containing soil minerals
- 24/13 . . . Zeolites
- 24/15 . . . Calcined rock, e.g. perlite, vermiculite or clay aggregates
- 24/17 . . containing slag
- 24/18 . . containing inorganic fibres, e.g. mineral wool
- 24/20 . based on or containing natural organic material
- 24/22 . . containing plant material
- 24/23 . . . Wood, e.g. wood chips or sawdust
- 24/25 . . . Dry fruit hulls or husks, e.g. chaff or coir
- 24/27 . . . Pulp, e.g. bagasse
- 24/28 . . containing peat, moss or sphagnum
- 24/30 . based on or containing synthetic organic compounds
- 24/35 . . containing water-absorbing polymers
- 24/40 . characterised by their structure
- 24/42 . . of granular or aggregated structure
- 24/44 . . in block, mat or sheet form
- 24/46 . . . multi-layered
- 24/48 . . containing foam or presenting a foam structure
- 24/50 . contained within a flexible envelope
- 24/60 . Apparatus for preparing growth substrates or culture media ([for mushrooms A01G 18/22](#))
- 25/00 Watering gardens, fields, sports grounds or the like (special apparatus or adaptations for fertilising-liquids [A01C 23/00](#); nozzles or outlets, spraying apparatus [B05B](#))**
- 25/003 . {[with an impermeable layer in the ground](#)}
- 25/006 . {[Tubular drip irrigation dispensers mounted coaxially within water feeding tubes](#)}

- 25/02 . Watering arrangements located above the soil which make use of perforated pipe-lines or pipe-lines with dispensing fittings, e.g. for drip irrigation
- 25/023 . . {Dispensing fittings for drip irrigation, e.g. drippers}
- 25/026 . . {Apparatus or processes for fitting the drippers to the hoses or the pipes}
- 25/06 . Watering arrangements making use of perforated pipe-lines located in the soil
- 25/09 . Watering arrangements making use of movable installations on wheels or the like
- 25/092 . . {movable around a pivot centre}
- 25/095 . . {winch-driven (A01G 25/097 takes precedence)}
- 25/097 . . {guided or propelled along a water supply line with supply line traversing means}
- 25/14 . Hand watering devices, e.g. watering cans
- 25/145 . . {with pumps}
- 25/16 . Control of watering
- 25/162 . . {Sequential operation}
- 25/165 . . {Cyclic operations, timing systems, timing valves, impulse operations}
- 25/167 . . {Control by humidity of the soil itself or of devices simulating soil or of the atmosphere; Soil humidity sensors}
- 27/00 Self-acting watering devices, e.g. for flower-pots**
- 27/001 . {with intermittent watering means}
- 27/003 . {Control of self-acting watering devices (Hydroponic system controls [A01G 31/008](#))}
- WARNING**
- Group [A01G 27/003](#) is impacted by reclassification into groups [A01G 31/00](#), [A01G 31/008](#) and [A01G 31/011](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 27/005 . {Reservoirs connected to flower-pots through conduits}
- 27/006 . {Reservoirs, separate from plant-pots, dispensing directly into rooting medium}
- 27/008 . {Component parts, e.g. dispensing fittings, level indicators}
- 27/02 . having a water reservoir, the main part thereof being located wholly around or directly beside the growth substrate ([A01G 27/06](#) takes precedence)
- 27/04 . using wicks or the like
- 27/06 . . having a water reservoir, the main part thereof being located wholly around or directly beside the growth substrate
- 29/00 Root feeders; Injecting fertilisers into the roots**

31/00 Soilless cultivation, e.g. hydroponics (growth substrates therefor [A01G 24/00](#); cultivation of seaweed [A01G 33/00](#))

WARNING

Group [A01G 31/00](#) is incomplete pending reclassification of documents from group [A01G 27/003](#).

Group [A01G 31/00](#) is also impacted by reclassification into groups [A01G 31/011](#), [A01G 31/008](#), [A01G 31/021](#), [A01G 31/022](#), [A01G 31/023](#), [A01G 31/0231](#), [A01G 31/0232](#), [A01G 31/0233](#), [A01G 31/024](#) and [A01G 31/025](#).

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

31/008 . {Control or regulation thereof}

WARNING

Groups [A01G 31/008](#) and [A01G 31/011](#) are incomplete pending reclassification of documents from groups [A01G 27/003](#), [A01G 31/00](#), [A01G 31/02](#), [A01G 31/04](#), [A01G 31/042](#), [A01G 31/045](#), [A01G 31/047](#), [A01G 31/06](#) and [A01G 31/065](#).

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

31/011 . . {Control of the pH, composition, temperature or viscosity of the fluid}

31/02 . Special apparatus therefor (self-acting watering devices [A01G 27/00](#))

WARNING

Group [A01G 31/02](#) is impacted by reclassification into groups [A01G 31/008](#), [A01G 31/011](#), [A01G 31/021](#), [A01G 9/047](#), [A01G 31/024](#), [A01G 31/0232](#), [A01G 31/023](#), [A01G 31/025](#), [A01G 31/0233](#), [A01G 31/0231](#) and [A01G 31/022](#).

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

31/021 . . {Hydroponic cultivation combined with culture of aquatic animals in a symbiotic environment}

WARNING

Group [A01G 31/021](#) is incomplete pending reclassification of documents from groups [A01G 31/00](#), [A01G 31/02](#) and [A01G 31/06](#).

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

- 31/022 . . {Growth chambers for large-scale hydroponic cultivation, mountable or transportable on site, e.g. shipping containers or prefabricated units}
- WARNING**
- Group [A01G 31/022](#) is incomplete pending reclassification of documents from groups [A01G 31/00](#), [A01G 31/02](#) and [A01G 31/06](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 31/023 . . {Hydroponic cultivation wherein the roots of the plants are partially exposed to air, e.g. aeroponics}
- WARNING**
- Groups [A01G 31/023](#), [A01G 31/0231](#), [A01G 31/0232](#) and [A01G 31/0233](#) are incomplete pending reclassification of documents from groups [A01G 31/00](#), [A01G 31/02](#) and [A01G 31/06](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 31/0231 . . . {wherein a nutritive solution is supplied in the form of fine drops or mist}
- 31/0232 . . . {wherein a shallow stream of nutritive solution is circulated along the roots, e.g. nutrient film technique [NFT]}
- 31/0233 . . . {with periodic flooding of the roots, e.g. ebb-and-flow or flood-and-drain techniques}
- 31/024 . . {Hydroponic cultivation wherein the roots are totally immersed in the nutritive solution, e.g. cultivation on floating rafts or deep-water culture}
- WARNING**
- Group [A01G 31/024](#) is incomplete pending reclassification of documents from groups [A01G 31/00](#), [A01G 31/02](#) and [A01G 31/06](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 31/025 . . {Hydroponic cultivation for vertical cultivation (on racks or in stacked containers [A01G 31/06](#))}
- WARNING**
- Group [A01G 31/025](#) is incomplete pending reclassification of documents from groups [A01G 31/00](#), [A01G 31/02](#) and [A01G 31/06](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 31/04 . . Hydroponic culture on conveyors
- WARNING**
- Group [A01G 31/04](#) is impacted by reclassification into groups [A01G 31/008](#) and [A01G 31/011](#).
- Groups [A01G 31/04](#), [A01G 31/008](#) and [A01G 31/011](#) should be considered in order to perform a complete search.
- 31/042 . . . {with containers travelling on a belt or the like, or conveyed by chains}
- WARNING**
- Group [A01G 31/042](#) is impacted by reclassification into groups [A01G 31/008](#) and [A01G 31/011](#).
- Groups [A01G 31/042](#), [A01G 31/008](#) and [A01G 31/011](#) should be considered in order to perform a complete search.
- 31/045 . . . {with containers guided along a rail}
- WARNING**
- Group [A01G 31/045](#) is impacted by reclassification into groups [A01G 31/008](#) and [A01G 31/011](#).
- Groups [A01G 31/045](#), [A01G 31/008](#) and [A01G 31/011](#) should be considered in order to perform a complete search.
- 31/047 . . . {with containers inside rotating drums or rotating around a horizontal axis, e.g. carousels}
- WARNING**
- Group [A01G 31/047](#) is impacted by reclassification into groups [A01G 31/008](#) and [A01G 31/011](#).
- Groups [A01G 31/047](#), [A01G 31/008](#) and [A01G 31/011](#) should be considered in order to perform a complete search.
- 31/06 . . Hydroponic culture on racks or in stacked containers
- WARNING**
- Group [A01G 31/06](#) is impacted by reclassification into groups [A01G 31/008](#), [A01G 31/011](#), [A01G 31/021](#), [A01G 31/022](#), [A01G 31/023](#), [A01G 31/0231](#), [A01G 31/0232](#), [A01G 31/0233](#), [A01G 31/024](#) and [A01G 31/025](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 31/065 . . {with means for recycling the nutritive solution}
- WARNING**
- Group [A01G 31/065](#) is impacted by reclassification into groups [A01G 31/008](#) and [A01G 31/011](#).
- Groups [A01G 31/065](#), [A01G 31/008](#) and [A01G 31/011](#) should be considered in order to perform a complete search.
- 33/00 **Cultivation of seaweed {or algae}**