

CPC**COOPERATIVE PATENT CLASSIFICATION****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](#); plant reproduction by tissue culture techniques [A01H 4/00](#); devices for topping or skinning onions or flower bulbs [A23N 15/08](#); propagating unicellular algae [C12N 1/12](#); plant cell culture [C12N 5/00](#))

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[A01G 33/02](#) covered by [A01G 33/00](#)

A01G 1/00

Horticulture; Cultivation of vegetables (labels or name-plates [G09F 3/00](#), [G09F 7/00](#))

A01G 1/001

- . { Horticultural methods}

A01G 1/002

- . {Growing turf}

A01G 1/004

- .. { Pre-cultivated sod; Machines for laying it down}

A01G 1/005

- .. { Planted mats, e.g. for covering roofs}

A01G 1/007

- .. { Flat containers, e.g. for covering roofs}

A01G 1/02

- . Cultivation of asparagus

A01G 1/04

- . Cultivation of mushrooms (composts or fertilisers for cultivating mushrooms [C05](#))

A01G 1/042

- .. {Growing rooms with treatment apparatus; Cultivation racks or trays}

A01G 1/044

- .. {Apparatus for treating mushroom compost}

A01G 1/046

- .. {Cultivation bags or bottles}

A01G 1/048

- .. {Mycorrhiza}

A01G 1/06

- . Grafting (grafting-wax [A01N 3/04](#))

A01G 1/08

- . Edging for beds, lawns, or the like, e.g. using tiles

A01G 1/12

- . Tools for cultivating turf; Sweeping apparatus for lawns; Garden rollers (machines for treating meadows or lawns [A01B 45/00](#); lawn-mowers [A01D 34/00](#))

A01G 1/125

- .. {Machines for sweeping lawns and for collecting or disintegrating lawn debris}

A01G 3/00

Cutting implements specially adapted for horticultural purposes; Delimiting standing trees (felling trees [A01G 23/08](#); hand-held cutting tools suitable for other use [B26B](#))

- A01G 3/002 . {for comminuting plant waste (comminuting by cutting implements in general [B02C 18/00](#))}

- A01G 3/02 . Secateurs; Flower or fruit shears
 - A01G 3/021 .. { characterized by the arrangement of pivots}
 - A01G 3/025 .. having elongated or extended handles
 - A01G 3/0251 ... { Loppers, i.e. branch cutters with two handles (hedge shears [A01G 3/0475](#))}
 - A01G 3/0253 { characterized by the arrangement of pivots}
 - A01G 3/0255 ... { Tree pruners, i.e. pruning shears carried at the end of a pole}
 - A01G 3/0256 { actuated by pulling a rope or the like}
 - A01G 3/0258 { actuated by a shaft transmission, e.g. inside the pole}
 - A01G 3/033 .. having motor-driven blades
 - A01G 3/0335 ... { having elongated or extended handles}
 - A01G 3/037 ... the driving means being an electric motor

- A01G 3/04 . Apparatus for trimming hedges, e.g. hedge shears
 - A01G 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](#))}
 - A01G 3/0417 .. { Guiding frames for trimming hedges}
 - A01G 3/0426 .. { Machines for pruning vegetation on embankments and road-sides}
 - A01G 3/0435 .. { Machines specially adapted for shaping plants, e.g. topiaries}
 - A01G 3/047 .. portable
 - A01G 3/0475 ... { Hedge shears}
 - A01G 3/053 ... motor-driven
 - A01G 3/0535 {with rotatable knives}

- A01G 3/06 . Hand-held edge trimmers or shears for lawns {(with a flexible rotating cutter [A01D 34/00C4](#))}

 - A01G 3/062 .. {Motor-driven edge trimmers}
 - A01G 3/065 .. {Hand operated shears for lawns}
 - A01G 3/067 .. {Motor-driven shears for lawns}

- A01G 3/08 . Other tools for pruning, branching or delimiting standing trees
 - A01G 3/081 .. { Manual cutting tools not otherwise provided for, e.g. pruning hooks}
 - A01G 3/083 .. { Manual pruning saws (saws in general [B27B](#))}
 - A01G 3/085 .. { Motor-driven saws for pruning or branching (saws in general [B27B](#))}
 - A01G 3/086 ... { Chain saws (chain saws in general [B27B 17/00](#))}
 - A01G 3/088 ... { Circular saws (circular saws in general [B27B 5/00](#))}
- A01G 5/00** **Floral handling**
 - A01G 5/02 . Apparatus for binding bouquets or wreaths
 - A01G 5/04 . Mountings for wreaths, or the like; Racks or holders for flowers

- A01G 5/06 . Devices for preserving flowers ([chemical substances A01N 3/02](#); [flower vases A47G 7/06](#))

- A01G 7/00** **Botany in general** ([cultivation without soil A01G 31/00](#))

- A01G 7/02 . Treatment of plants with carbon dioxide ([greenhouses therefor A01G 9/18](#))

- A01G 7/04 . Electric or magnetic treatment of plants for promoting growth
- A01G 7/045 .. {with electric lighting}

- A01G 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

- A01G 9/00** **Cultivation of flowers, vegetables or rice in receptacles, forcing-frames, or greenhouses** ([cultivation without soil A01G 31/00](#); [turfing of roofs E04D 11/002](#))

- A01G 9/006 . { Labels or label holders for flower pots}

- A01G 9/02 . Receptacles, e.g. flower-pots or boxes ([hanging flower baskets, holders or containers for flower-pots A47G 7/00](#)); Glasses for cultivating flowers
- A01G 9/021 .. {Pots formed in one piece; Materials used therefor}
- A01G 9/022 .. { Pots for vertical horticulture}
- A01G 9/023 ... { Multi-tiered planters}
- A01G 9/024 ... { Hanging flower pots and baskets}
- A01G 9/025 ... { Containers and elements for greening walls ([for covering roofs A01G 1/007](#))}
- A01G 9/026 .. {Foldable pots}
- A01G 9/027 .. {Pots connected in horizontal rows}
- A01G 9/028 .. {Multi-compartmented pots}

- A01G 9/04 . Flower-pot saucers
- A01G 9/042 .. { Combinations of a saucer and a flower pot attached together}
- A01G 9/045 .. { Trays for receiving multiple pots}
- A01G 9/047 .. { Channels or gutters, e.g. for hydroponics}

- A01G 9/06 . Devices for cleaning flower-pots

- A01G 9/08 . Devices for filling-up flower-pots { or pots for seedlings}; Devices for setting plants { or seeds} in pots
- A01G 9/081 .. { Devices for filling-up pots}
- A01G 9/083 .. { Devices for setting plants in pots}
- A01G 9/085 .. { Devices for setting seeds in pots}
- A01G 9/086 .. { Devices for repotting}
- A01G 9/088 .. { Handling or transferring pots}

- A01G 9/10 . Pots [{\(or other receptacles\)}](#) for seedlings, [{ saplings, cuttings or other young plants \(foldable pots\)}](#); Soil [{\(or like\)}](#) blocks for seedlings; [{ Plant substrate bodies}](#); Means

- for forming soil-blocks
- A01G 9/1006 .. { Tools, machines and methods for forming soil blocks or compressed pots, e.g. from peat}
- A01G 9/1013 .. { soil blocks or compressed pots}
- A01G 9/102 .. { Planting receptacles specially adapted for remaining in the soil after planting}
- A01G 9/1026 .. { Seed or shoot receptacles}
- A01G 9/1033 .. { Sterile receptacles, e.g. for tissue culture}
- A01G 9/104 .. { Units comprising two or more connected receptacles}
- A01G 9/1066 .. { Grids for supporting several receptacles}
- A01G 9/1073 .. { Receptacles specially adapted for air layering}
- A01G 9/108 .. { Handling or transporting of soil blocks or seedlings}
- A01G 9/1086 .. { Composition of plant substrate bodies (plant growth regulators A01N; fertilizers C05; soil conditioning or soil stabilizing materials [C09K 17/00](#))}

- A01G 9/12 . Supports for plants; Trellis for strawberries or the like ({trellis-work for vines [A01G 17/06](#)}; stays for trees, props for vines [A01G 17/14](#))
- A01G 9/122 .. {Stakes}
- A01G 9/124 ... {Means for holding stakes upright in, on, or beside pots}
- A01G 9/126 .. {Wirespool supports}
- A01G 9/128 .. {Fixing of plants to supports, e.g. by means of clips}

- A01G 9/14 . Greenhouses (cloches [A01G 13/04](#); {glazing bars, glazing clips therefor [E04D 3/06](#)})
- A01G 9/1407 .. {of flexible synthetic material}
- A01G 9/1415 ... {with double or multiple walls}
- A01G 9/1423 .. {Greenhouse bench structures}
- A01G 9/143 .. {Equipment for handling produce in greenhouses}
- A01G 9/1438 .. { Covering materials therefor; Materials for protective coverings used for soil and plants, e.g. films, canopies, tunnels or cloches}
- A01G 9/1469 .. {with double or multiple walls}
- A01G 9/1476 .. {Greenhouse gutters (gutters in general [E04D 13/064](#))}
- A01G 9/16 .. Dismountable or portable greenhouses; {Greenhouses with sliding roofs}

- A01G 9/18 . Greenhouses for treating plants with carbon dioxide or the like

- A01G 9/20 . Forcing-frames; Lights

- A01G 9/22 . Shades or blinds for greenhouses, or the like ({canopies [A01G 13/0206](#)})
- A01G 9/222 .. {Lamellar or like blinds (in general [E06B 9/26](#))}
- A01G 9/225 .. {Inflatable structures}
- A01G 9/227 .. {rolled up during non-use (in general [E06B 9/08](#))}

- A01G 9/24 . Devices {or systems} for heating, ventilating, regulating temperature, or watering, in greenhouses, forcing-frames, or the like
- A01G 9/241 .. {Arrangement of opening or closing systems for windows and ventilation panels}
- A01G 9/242 ... {for greenhouses with flexible coverings}

- A01G 9/243 .. {Collecting solar energy (in general [F24J](#))}
- A01G 9/245 .. {Conduits for heating by means of liquids, e.g. used as frame members or for soil heating}
- A01G 9/246 .. {Air-conditioning systems}
- A01G 9/247 .. {Watering arrangements}
- A01G 9/26 .. Electric devices

- A01G 11/00** **Sterilising soil by steam** (soil-conditioning or soil-stabilising materials [C09K 17/00](#))

- A01G 13/00** **Protecting plants** (apparatus for the destruction of vermin or noxious animals [A01M](#); use of chemical materials therefor, composition of protective materials, e.g. grafting wax, [A01N](#); {coverings around trees forming part of a road [E01C 9/005](#)})

- A01G 13/02 .. Protective coverings for plants; { Coverings for the ground; } Devices for laying-out { or removing } coverings {(covering materials [A01G 9/1438](#))}
- A01G 13/0206 .. { Canopies, i.e. devices providing a roof above the plants }
- A01G 13/0212 ... { for individual plants, e.g. for plants in pots }
- A01G 13/0225 .. { Wind breakers, i.e. devices providing lateral protection of the plants }
- A01G 13/0231 .. { Tunnels, i.e. protective full coverings for rows of plants (dismountable or portable greenhouses [A01G 9/16](#)) }
- A01G 13/0237 .. { Devices for protecting a specific part of a plant, e.g. roots, trunk or fruits }
- A01G 13/0243 .. { Protective shelters for young plants, e.g. tubular sleeves }
- A01G 13/025 .. { Devices for laying-out or removing plant coverings (for ground coverings [A01G 13/0287](#)) }
- A01G 13/0256 .. { Ground coverings }
- A01G 13/0262 ... { Mulches, i.e. covering material not-pre-formed in mats or sheets (**A01G 13/00S3** takes precedence; composition of mulches [C09K 17/52](#)) }
- A01G 13/0268 ... { Mats or sheets, e.g. nets or fabrics (**A01G 13/00S3** takes precedence) }
- A01G 13/0275 { Films }
- A01G 13/0281 ... { Protective ground coverings for individual plants, e.g. for plants in pots (coverings around trees forming part of a road [E01C 9/005](#)) }
- A01G 13/0287 ... { Devices for laying-out or removing ground coverings }
- A01G 13/0293 ... { Anchoring means for ground coverings }
- A01G 13/04 .. Cloches { i.e. protective full coverings for individual plants (dismountable or portable greenhouses [A01G 9/16](#); individual canopies [A01G 13/0212](#)) }
- A01G 13/043 ... {with flexible coverings }

- A01G 13/06 .. Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost ({bee-smokers [A01K 55/00](#); fumigators for destroying insects **A01M 13/00D**; for destroying rats **A01M 17/00B2**}; chemical aspects of generating smoke or mist [C06D 3/00](#); heating devices in general, see the appropriate classes, e.g. [F24](#))
- A01G 13/065 .. {Frost protection by generating fog or by spraying }

- A01G 13/08 .. Mechanical apparatus for circulating the air

- A01G 13/10 .. Devices for affording protection against animals, birds, or other pests {(protective

- shelters for young plants [A01G 13/0243](#))}(traps [A01M 23/00](#){ scaring or repelling devices [A01M 29/00](#)}; pesticides [A01N](#))
- A01G 13/105 .. {Protective devices against slugs, snails, crawling insects or other climbing animals}
- A01G 15/00** **Devices or methods for influencing weather conditions** (dispersing fog in general [E01H 13/00](#))
- A01G 16/00** **Cultivation of rice** ([A01G 9/00](#) takes precedence)
- A01G 17/00** **Cultivation of hops, vines, fruit trees, or like trees**
- A01G 17/005 . {Cultivation methods}
- A01G 17/02 . Cultivation of hops or vines
- A01G 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](#))}
- A01G 17/026 .. {Machines for removing leaves of vines}
- A01G 17/04 . Supports for hops, vines, or trees
- A01G 17/06 .. Trellis-work
- A01G 17/08 ... Tools for attaching hops, vines, or boughs to trellis-work; Tying devices
- A01G 17/085 {Tying instruments; Espalier machines}
- A01G 17/10 .. Holders for boughs or branches
- A01G 17/12 .. Tree-bands
- A01G 17/14 .. Props; Stays
- A01G 17/16 ... Devices for driving-in or pulling-out props
- A01G 17/18 . Means for filling-up wounds in trees
- A01G 21/00** **Devices for hanging-up harvested fruit**
- A01G 23/00** **Forestry**
- A01G 23/003 . {Collecting felled trees}
- A01G 23/006 .. {Log skidders}
- A01G 23/02 . Transplanting, uprooting, felling or delimiting trees ([delimiting standing trees A01G 3/00](#))
- NOTE**
- Tree feeding devices are covered by group [B27B 25/00](#)
- A01G 23/04 .. Transplanting trees; Devices for grasping the root ball, e.g. stump forceps; Wrappings or packages for transporting trees

- A01G 23/043 . . . {Transplanting devices for grasping, undercutting or transporting the root ball ([A01G 23/046](#) takes precedence)}
- A01G 23/046 . . . {Transplanting devices using elements to be driven into the ground for making a container around the root ball}
- A01G 23/06 . . Uprooting or pulling up trees; Extracting or eliminating stumps
- A01G 23/062 . . . {Pulling up trees or stumps}
- A01G 23/065 {in a substantially vertical plane}
- A01G 23/067 . . . {by comminuting the tree stumps}
- A01G 23/08 . . Felling trees (axes [B26B 23/00](#); saws, sawing machines [B27B](#))
- A01G 23/081 . . . Feller-bunchers, i.e. with bunching by felling head ([A01G 23/083](#) takes precedence)
- A01G 23/083 . . . Feller-delimiters
- A01G 23/085 having the shearing head mounted on a first boom and the delimiting head mounted on a second boom
- A01G 23/087 . . . Shearing apparatus or the like specially adapted for felling trees ([A01G 23/081](#), [A01G 23/083](#), [A01G 23/093](#) take precedence)
- A01G 23/089 having two or more shears
- A01G 23/09 of the percussion type
- A01G 23/091 . . . Sawing apparatus specially adapted for felling trees ([A01G 23/081](#), [A01G 23/083](#), [A01G 23/093](#) take precedence)
- A01G 23/093 . . . Combinations of shearing, sawing or milling apparatus specially adapted for felling trees
- A01G 23/095 . . Delimiters ([A01G 23/083](#) takes precedence; manufacture of wood shavings, chips, powder, or the like, per se [B27L 11/00](#))
- A01G 23/0955 . . . {Self-propelled along standing trees}
- A01G 23/097 . . . having a fixed delimiting head
- A01G 23/099 . . Auxiliary devices, e.g. felling wedges

- A01G 23/10 . Tapping of tree-juices, e.g. caoutchouc, gum
- A01G 23/12 . . Knives or axes for tapping
- A01G 23/14 . . Tapping-spouts; Receptacles for juices

- A01G 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](#); gravity flow, open channel irrigation ditch systems [E02B 13/00](#))

- A01G 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 ([perforated pipes per se B05B 1/20](#))
- A01G 25/023 . . {Dispensing fittings for drip irrigation, e.g. drippers}
- A01G 25/026 . . {Machines and methods for fixing the drippers in the pipe}

- A01G 25/06 . Watering arrangements making use of perforated pipe-lines located in the soil ([perforated pipes per se B05B 1/20](#); similar arrangements for drainage [E02B 11/00](#))

- A01G 25/09 . Watering arrangements making use of movable installations on wheels or the like
- A01G 25/092 . . {movable around a pivot centre}

- A01G 25/095 . . {winch-driven ([A01G 25/097](#) takes precedence)}
- A01G 25/097 . . {guided or propelled along a water supply line with supply line traversing means}

- A01G 25/14 . Hand watering devices, e.g. watering cans
- A01G 25/145 . . {with pumps}

- A01G 25/16 . Control of watering ([controlling of spraying devices B05B](#))
- A01G 25/162 . . {Sequential operation}
- A01G 25/165 . . {Cyclic operations, timing systems, timing valves, impulse operations}
- A01G 25/167 . . {Control by humidity of the soil itself or of devices simulating soil or of the atmosphere; Soil humidity sensors}

- A01G 27/00 Self-acting watering devices, e.g. for flower-pots**

- A01G 27/001 . {with intermittent watering means}
- A01G 27/003 . {Controls for self-acting watering devices}
- A01G 27/005 . {Reservoirs connected to flower-pots through conduits}
- A01G 27/006 . {Reservoirs, separate from plant-pots, dispensing directly into rooting medium}
- A01G 27/008 . {Component parts, e.g. dispensing fittings, level indicators}
- A01G 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)
- A01G 27/04 . using wicks or the like
- A01G 27/06 . . having a water reservoir, the main part thereof being located wholly around or directly beside the growth substrate

- A01G 29/00 Root feeders; Injecting fertilisers into the roots**

- A01G 31/00 Hydroponics; Cultivation without soil ([A01G 33/00](#) takes precedence)**

- A01G 31/001 . {Soilless culture substrates}
- A01G 31/02 . Special apparatus therefor ([apparatus for cultivation in receptacles or greenhouses in general A01G 9/00](#); [self-acting watering devices A01G 27/00](#))
- A01G 31/04 . . Hydroponic culture on conveyers
- A01G 31/042 . . . { with containers travelling on a conveyor belt or the like}
- A01G 31/045 . . . { with hanging containers travelling along a rail}
- A01G 31/047 . . . { using a rotating drum or the like}
- A01G 31/06 . . Hydroponic culture on racks or in stacked containers

- A01G 33/00 Cultivation of seaweed {or algae}**

- A01G 2001/00 Horticulture; Cultivation of vegetables** (labels or name-plates [G09F 3/00](#), [G09F 7/00](#))
- [A01G 2001/008](#) . Growing plants or turf in soil-like layered substrates using a foil
- [A01G 2001/06](#) . Grafting (grafting-wax [A01N 3/04](#))
- [A01G 2001/065](#) .. Removing buds
- A01G 2003/00 Cutting implements specially adapted for horticultural purposes; Delimiting standing trees** (felling trees [A01G 23/08](#); hand-held cutting tools suitable for other use [B26B](#))
- [A01G 2003/005](#) . Removing buds
- [A01G 2003/007](#) . Using spray
- [A01G 2003/02](#) . Secateurs; Flower or fruit shears
- [A01G 2003/023](#) .. with means for grasping the cut object
- [A01G 2003/04](#) . Apparatus for trimming hedges, e.g. hedge shears
- [A01G 2003/0443](#) .. with height-adjustable platforms
- [A01G 2003/0452](#) .. with platforms for persons
- [A01G 2003/0461](#) .. with reciprocating knives
- A01G 2005/00 Floral handling**
- [A01G 2005/005](#) . Thorn removers
- A01G 2009/00 Cultivation of flowers, vegetables or rice in receptacles, forcing-frames, or greenhouses** (cultivation without soil [A01G 31/00](#); {turbing of roofs [E04D 11/002](#)})
- [A01G 2009/003](#) . Plant pots consisting of two halves, allowing easy removal of the plant
- [A01G 2009/10](#) . Pots {(or other receptacles)} for seedlings, { saplings, cuttings or other young plants (foldable pots)}; Soil {(or like)} blocks for seedlings; { Plant substrate bodies}; Means for forming soil-blocks
- [A01G 2009/104](#) .. { Units comprising two or more connected receptacles}
- [A01G 2009/1046](#) ... containing mineral wool
- [A01G 2009/1053](#) ... containing superabsorbents
- [A01G 2009/106](#) ... containing wood
- [A01G 2009/1093](#) .. for dwarf plants
- [A01G 2009/14](#) . Greenhouses (cloches [A01G 13/04](#); {glazing bars, glazing clips therefor [E04D 3/06](#)})
- [A01G 2009/1438](#) .. { Covering materials therefor; Materials for protective coverings used for soil and plants, e.g. films, canopies, tunnels or cloches}
- [A01G 2009/1446](#) ... with perforations

- A01G 2009/1453 . . . containing textile products
- A01G 2009/1461 . . . containing woven structures
- A01G 2009/1484 . . Glazing apparatus
- A01G 2009/1492 . . Cleaning apparatus

- A01G 2009/24 . Devices {or systems} for heating, ventilating, regulating temperature, or watering, in greenhouses, forcing-frames, or the like
- A01G 2009/248 . . with distillation of water

- A01G 2013/00** **Protecting plants** (apparatus for the destruction of vermin or noxious animals [A01M](#); use of chemical materials therefor, composition of protective materials, e.g. grafting wax, [A01N](#); {coverings around trees forming part of a road [E01C 9/005](#)})

- A01G 2013/002 . Wind breakers
- A01G 2013/004 . Liquid mulch
- A01G 2013/006 . with perforations
- A01G 2013/008 . using straw
- A01G 2013/02 . Protective coverings for plants; { Coverings for the ground;} Devices for laying-out { or removing} coverings {(covering materials [A01G 9/1438](#)})
- A01G 2013/0218 . . for removing
- A01G 2013/04 . . Cloches { i.e. protective full coverings for individual plants (dismountable or portable greenhouses [A01G 9/16](#); individual canopies [A01G 13/0212](#)})
- A01G 2013/046 . . . foldable

- A01G 2017/00** **Cultivation of hops, vines, fruit trees, or like trees**

- A01G 2017/04 . Supports for hops, vines, or trees
- A01G 2017/06 . . Trellis-work
- A01G 2017/065 . . . Trellis-work for supporting vines having wire-tensioning devices

- A01G 2025/00** **Watering gardens, fields, sports grounds, or the like** (special apparatus or adaptations for fertilising-liquids [A01C 23/00](#); nozzles or outlets, spraying apparatus [B05B](#); gravity flow, open channel irrigation ditch systems [E02B 13/00](#))

- A01G 2025/003 . with an impermeable layer in the ground
- A01G 2025/006 . Tubular drip irrigation dispensers mounted coaxially within water feeding tubes

- A01G 2031/00** **Hydroponics; Cultivation without soil** ([A01G 33/00](#) takes precedence)

- A01G 2031/002 . Substrates with a flexible envelope
- A01G 2031/003 . with foam substrates

- A01G 2031/005 . with mineral wool substrates
- A01G 2031/006 . with means for recycling the nutritive solution
- A01G 2031/007 . with superabsorbents
- A01G 2031/008 . with wood