

**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](#)

**Guidance heading:**

- |                  |  |
|------------------|--|
| <b>A01G 1/00</b> | <b>Horticulture; Cultivation of vegetables</b> (labels or name-plates <a href="#">G09F 3/00</a> , <a href="#">G09F 7/00</a> )  |
| 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 2001/008    | . Growing plants or turf in soil-like layered substrates using a foil  |
| A01G 1/02        | . Cultivation of asparagus   |
| A01G 1/04        | . Cultivation of mushrooms (composts or fertilisers for cultivating mushrooms <a href="#">C05</a> )  |
| 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 ( <a href="#">grafting-wax A01N 3/04</a> )  |
| A01G 2001/065    | .. Removing buds   |
| 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 <a href="#">A01B 45/00</a> ; lawn-mowers <a href="#">A01D 34/00</a> )     |
| A01G 1/125       | .. { Machines for sweeping lawns and for collecting or disintegrating lawn debris }  |
| <b>A01G 3/00</b> | <b>Cutting implements specially adapted for horticultural purposes; Delimbing standing trees</b> ( felling trees <a href="#">A01G 23/08</a> ; 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 2003/005 . Removing buds
- A01G 2003/007 . Using spray
- A01G 3/02 . Secateurs; Flower or fruit shears
- A01G 3/021 .. { characterized by the arrangement of pivots }
- A01G 2003/023 .. with means for grasping the cut object
- 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 2003/0443 .. with height-adjustable platforms
- A01G 2003/0452 .. with platforms for persons
- A01G 2003/0461 .. with reciprocating knives
- 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 34/416](#)) }
- 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 delimbing 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 2005/005 . Thorn removers
- 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 2009/003 . Plant pots consisting of two halves, allowing easy removal of the plant
- 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 2009/1046      ...      containing mineral wool
- A01G 2009/1053      ...      containing superabsorbents
- A01G 2009/106      ...      containing wood
- 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 2009/1093      ..      for dwarf plants
- 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 2009/1446 . . . with perforations
- A01G 2009/1453 . . . containing textile products
- A01G 2009/1461 . . . containing woven structures
- A01G 9/1469 . . {with double or multiple walls }
- A01G 9/1476 . . {Greenhouse gutters (gutters in general [E04D 13/064](#)) }
- A01G 2009/1484 . . Glazing apparatus
- A01G 2009/1492 . . Cleaning apparatus
- 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 2009/248 . . with distillation of water
- 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 2013/002 . Wind breakers
- A01G 2013/004 . Liquid mulch
- A01G 2013/006 . with perforations
- A01G 2013/008 . using straw
  
- 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 2013/0218 . . for removing
- 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 13/0281](#) takes precedence; composition of mulches [C09K 17/52](#)) }
- A01G 13/0268 . . . { Mats or sheets, e.g. nets or fabrics ([A01G 13/0281](#) 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 2013/046 . . . foldable
  
- 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 13/006](#); for destroying rats [A01M 17/004](#) }; 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 2017/065 ... Trellis-work for supporting vines having wire-tensioning devices
- 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 delimbing trees ([delimbing 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-delimbers
- A01G 23/085 .... having the shearing head mounted on a first boom and the delimbing 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](#) . . . . Delimbers ([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 delimbing 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 2025/003](#) . . . . with an impermeable layer in the ground
    - [A01G 2025/006](#) . . . . Tubular drip irrigation dispensers mounted coaxially within water feeding tubes
    - [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 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
- 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 }**