

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)	2003/0452	. . {with platforms for persons}
2/10	. by means of cuttings	2003/0461	. . {with reciprocating knives}
2/20	. Layering	3/047	. . portable
2/30	. Grafting (grafting-wax A01N 3/04)	3/0475	. . . {Hedge shears}
2/32	. . Automatic apparatus therefor	3/053	. . . motor-driven
2/35	. . Cutting; Inserting	3/0535 {with rotatable knives}
2/38	. . Holding; Ligating	3/06	. Hand-held edge trimmers or shears for lawns
3/00	Cutting implements specially adapted for horticultural purposes; Delimiting standing trees (forestry delimiters A01G 23/095)	3/062	. . {Motor-driven edge trimmers}
3/002	. {for comminuting plant waste (comminuting by cutting implements in general B02C 18/00)}	3/065	. . {Hand operated shears for lawns}
2003/005	. {Removing buds}	3/067	. . {Motor-driven shears for lawns}
2003/007	. {Using spray}	3/08	. Other tools for pruning, branching or delimiting standing trees
3/02	. Secateurs; Flower or fruit shears	3/081	. . {Manual cutting tools not otherwise provided for, e.g. pruning hooks}
3/021	. . {characterized by the arrangement of pivots}	3/083	. . {Manual pruning saws (saws in general B27B)}
2003/023	. . {with means for grasping or collecting the cut objects}	3/085	. . {Motor-driven saws for pruning or branching (saws in general B27B)}
3/025	. . having elongated or extended handles	3/086	. . . {Chain saws (chain saws in general B27B 17/00)}
3/0251	. . . {Loppers, i.e. branch cutters with two handles (hedge shears A01G 3/0475)}	3/088	. . . {Circular saws (circular saws in general B27B 5/00)}
3/0255	. . . {Tree pruners, i.e. pruning shears carried at the end of a pole}	5/00	Floral handling
3/033	. . having motor-driven blades	2005/005	. {Thorn removers}
3/0335	. . . {having elongated or extended handles}	5/02	. Apparatus for binding bouquets or wreaths
3/037	. . . the driving means being an electric motor	5/04	. Mountings for wreaths, or the like; Racks or holders for flowers
3/04	. Apparatus for trimming hedges, e.g. hedge shears	5/06	. Devices for preserving flowers
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)}	7/00	Botany in general
3/0417	. . {Guiding frames for trimming hedges}	7/02	. Treatment of plants with carbon dioxide
3/0426	. . {Machines for pruning vegetation on embankments and road-sides}	7/04	. Electric or magnetic {or acoustic} treatment of plants for promoting growth
3/0435	. . {Machines specially adapted for shaping plants, e.g. topiaries}	7/045	. . {with electric lighting}
2003/0443	. . {with height-adjustable platforms}	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

- 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**
- 2009/003 . . {Receptacles consisting of separable sections, e.g. for allowing easy removal of the plant}
 - 9/006 . {Labels or label holders specially adapted for plant receptacles}
 - 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}
 - 9/033 . . 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}
 - 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 ({trellis-work for vines [A01G 17/06](#)}; 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 (cloches [A01G 13/04](#))
 - 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 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](#))**
- 2013/004 . {Liquid mulch}
 - 2013/006 . {with perforations}
 - 2013/008 . {using straw}
 - 13/02 . Protective coverings for plants; {Coverings for the ground;}; Devices for laying-out {or removing} coverings
 - 13/0206 . . {Canopies, i.e. devices providing a roof above the plants}
 - 13/0212 . . . {for individual plants, e.g. for plants in pots}
 - 2013/0218 . . {for removing}
 - 13/0225 . . {Wind breakers, i.e. devices providing lateral protection of the plants}
 - 13/0231 . . {Tunnels, i.e. protective full coverings for rows of plants (dismountable or portable greenhouses [A01G 9/16](#))}
 - 13/0237 . . {Devices for protecting a specific part of a plant, e.g. roots, trunk or fruits}

13/0243	. . {Protective shelters for young plants, e.g. tubular sleeves}	18/30	. Accessories for use before inoculation of spawn, e.g. sterilisers
13/025	. . {Devices for laying-out or removing plant coverings (for ground coverings A01G 13/0287)}	18/40	. Cultivation of spawn
13/0256	. . {Ground coverings}	18/50	. Inoculation of spawn
13/0262	. . . {Mulches, i.e. covering material not-preformed in mats or sheets (A01G 13/0281 takes precedence; composition of mulches C09K 17/52)}	18/55	. . Forming inoculation holes
13/0268	. . . {Mats or sheets, e.g. nets or fabrics (A01G 13/0281 takes precedence)}	18/60	. Cultivation rooms; Equipment therefor
13/0275 {Films}	18/61	. . Growth guides for fruiting bodies, e.g. paper rolls
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)}	18/62	. . Racks; Trays
13/0287	. . . {Devices for laying-out or removing ground coverings}	18/64	. . Cultivation containers; Lids therefor
13/0293	. . . {Anchoring means for ground coverings}	18/65	. . . characterised by the lids, e.g. lids with filters
13/04	. . Cloches {, i.e. protective full coverings for individual plants (individual canopies A01G 13/0212)}	18/66	. . . Cultivation bags
13/043	. . . {with flexible coverings}	18/68	. . . Cultivation bottles
2013/046	. . . {foldable}	18/69	. . Arrangements for managing the environment, e.g. sprinklers
13/06	. Devices for generating heat, smoke or fog in gardens, orchards or forests, e.g. to prevent damage by frost	18/70	. Harvesting
13/065	. . {Frost protection by generating fog or by spraying}	18/80	. Accessories for use after harvesting, e.g. scrapers
13/08	. Mechanical apparatus for circulating the air	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)
13/10	. Devices for affording protection against animals, birds or other pests ({ A01G 13/0243 takes precedence;} scaring or repelling devices A01M 29/00)	20/10	. Pre-cultivated sod or turf; Apparatus therefor
13/105	. . {Protective devices against slugs, snails, crawling insects or other climbing animals}	20/12	. . Apparatus for cutting sods or turfs
15/00	Devices or methods for influencing weather conditions	20/15	. . . specially adapted for stacking sods or sod rolls
17/00	Cultivation of hops, vines, fruit trees, or like trees	20/18	. . Apparatus for laying sods or turfs
17/005	. {Cultivation methods}	20/20	. Cultivation on mats
17/02	. Cultivation of hops or vines	20/30	. Apparatus for treating the lawn or grass surface (machines for aerating lawns A01B 45/02)
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)}	20/35	. . Garden rollers
17/026	. . {Machines for removing leaves of vines}	20/40	. Apparatus for cleaning the lawn or grass surface
17/04	. Supports for hops, vines, or trees	20/43	. . for sweeping, collecting or disintegrating lawn debris
17/06	. . Trellis-work	20/47	. . . Vacuum or blower devices
2017/065	. . . {Trellis-work for supporting vines having wire-tensioning devices}	21/00	{Devices for hanging-up harvested fruit}
17/08	. . . Tools {e.g. clips} for attaching hops, vines, or boughs to trellis-work; Tying devices	22/00	Cultivation of specific crops or plants not otherwise provided for
17/085 {Espalier machines; Tying machines}	22/05	. Fruit crops, e.g. strawberries, tomatoes or cucumbers
17/10	. . Holders for boughs or branches	22/10	. Asparagus
17/12	. . Tree-bands	22/15	. Leaf crops, e.g. lettuce or spinach
17/14	. . Props; Stays	22/20	. Cereals
17/16	. . . Devices for driving-in or pulling-out props	22/22	. . Rice
17/18	. Means for filling-up wounds in trees	22/25	. Root crops, e.g. potatoes, yams, beet or wasabi
18/00	Cultivation of mushrooms	22/30	. Moss
18/10	. Mycorrhiza; Mycorrhizal associations	22/35	. Bulbs; Alliums, e.g. onions or leeks
18/20	. Culture media, e.g. compost	22/40	. Fabaceae, e.g. beans or peas
18/22	. . Apparatus for the preparation of culture media, e.g. bottling devices	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
		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)**
- 2025/003 . {with an impermeable layer in the ground}
- 2025/006 . {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 . {Controls for self-acting watering devices}
- 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)**
- 2031/006 . {with means for recycling the nutritive solution}
- 31/02 . Special apparatus therefor (self-acting watering devices A01G 27/00)
- 31/04 . . Hydroponic culture on conveyors
- 31/042 . . . {with containers travelling on a belt or the like, or conveyed by chains}
- 31/045 . . . {with containers guided along a rail}
- 31/047 . . . {with containers inside rotating drums or rotating around a horizontal axis, e.g. carousels}

A01G

31/06 . . Hydroponic culture on racks or in stacked containers

33/00 Cultivation of seaweed {or algae}