

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; Delimbing 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 delimbing 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	9/1438	. . {Covering materials therefor; Materials for protective coverings used for soil and plants, e.g. films, canopies, tunnels or cloches}
2009/003	. {Receptacles consisting of separable sections, e.g. for allowing easy removal of the plant}	2009/1446	. . . {with perforations}
9/006	. {Labels or label holders specially adapted for plant receptacles}	2009/1453	. . . {containing textile products}
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	2009/1461	. . . {containing woven structures}
9/021	. . {Pots formed in one piece; Materials used therefor}	9/1469	. . {with double or multiple walls}
9/022	. . {Pots for vertical horticulture}	9/1476	. . {Greenhouse gutters (gutters in general E04D 13/064)}
9/023	. . . {Multi-tiered planters}	2009/1484	. . {Glazing apparatus}
9/024	. . . {Hanging flower pots and baskets}	2009/1492	. . {Cleaning apparatus}
9/025	. . . {Containers and elements for greening walls (for covering roofs A01G 9/033)}	9/16	. . Dismountable or portable greenhouses {; Greenhouses with sliding roofs}
9/026	. . {Foldable pots}	9/18	. Greenhouses for treating plants with carbon dioxide or the like
9/027	. . {Pots connected in horizontal rows}	9/20	. Forcing-frames; Lights {, i.e. glass panels covering the forcing-frames}
9/028	. . {Multi-compartmented pots}	9/22	. Shades or blinds for greenhouses, or the like
9/029	. . Receptacles for seedlings (growth substrates in block form A01G 24/44)	9/222	. . {Lamellar or like blinds (in general E06B 9/26)}
9/0291	. . . {Planting receptacles specially adapted for remaining in the soil after planting}	9/225	. . {Inflatable structures}
9/0293	. . . {Seed or shoot receptacles}	9/227	. . {rolled up during non-use (in general E06B 9/08)}
9/0295	. . . {Units comprising two or more connected receptacles}	9/24	. Devices {or systems} for heating, ventilating, regulating temperature {, illuminating}, or watering, in greenhouses, forcing-frames, or the like
9/0297	. . . {Grids for supporting several receptacles}	9/241	. . {Arrangement of opening or closing systems for windows and ventilation panels}
9/0299	. . . {Handling or transporting of soil blocks or seedlings}	9/242	. . . {for greenhouses with flexible coverings}
9/033	. . Flat containers for turf, lawn or the like, e.g. for covering roofs	9/243	. . {Collecting solar energy (in general F24S)}
9/04	. Flower-pot saucers	9/245	. . {Conduits for heating by means of liquids, e.g. used as frame members or for soil heating}
9/042	. . {Combinations of a saucer and a flower pot attached together}	9/246	. . {Air-conditioning systems}
9/045	. . {Trays for receiving multiple pots}	9/247	. . {Watering arrangements}
9/047	. . {Channels or gutters, e.g. for hydroponics}	2009/248	. . {with distillation of water}
9/06	. Devices for cleaning flower-pots	9/249	. . {Lighting means (with special arrangements for promoting growth A01G 7/045)}
9/08	. Devices for filling-up flower-pots {or pots for seedlings}; Devices for setting plants {or seeds} in pots	9/26	. . Electric devices {(A01G 9/249 takes precedence)}
9/081	. . {Devices for filling-up pots}	9/28	. Raised beds; Planting beds; Edging elements for beds, lawn or the like, e.g. tiles
9/083	. . {Devices for setting plants in pots}	11/00	Sterilising soil by steam
9/085	. . {Devices for setting seeds in pots}	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)
9/086	. . {Devices for repotting}	2013/004	. {Liquid mulch}
9/088	. . {Handling or transferring pots}	2013/006	. {with perforations}
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)	2013/008	. {using straw}
9/122	. . {Stakes}	13/02	. Protective coverings for plants; {Coverings for the ground; } Devices for laying-out {or removing} coverings
9/124	. . . {Means for holding stakes upright in, on, or beside pots}	13/0206	. . {Canopies, i.e. devices providing a roof above the plants}
9/126	. . {Wirespool supports}	13/0212	. . . {for individual plants, e.g. for plants in pots}
9/128	. . {Fixing of plants to supports, e.g. by means of clips (tying devices in trellis-work A01G 17/08)}	2013/0218	. . {for removing}
9/14	. Greenhouses (cloches A01G 13/04)	13/0225	. . {Wind breakers, i.e. devices providing lateral protection of the plants}
9/1407	. . {of flexible synthetic material}	13/0231	. . {Tunnels, i.e. protective full coverings for rows of plants (dismountable or portable greenhouses A01G 9/16)}
9/1415	. . . {with double or multiple walls}	13/0237	. . {Devices for protecting a specific part of a plant, e.g. roots, trunk or fruits}
9/1423	. . {Greenhouse bench structures}		
9/143	. . {Equipment for handling produce in greenhouses}		

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-pre-formed 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 delimbing trees (delimbing 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)}	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)
23/046	. . . {Transplanting devices using elements to be driven into the ground for making a container around the root ball}	2025/003	. {with an impermeable layer in the ground}
23/06	. . Uprooting or pulling up trees; Extracting or eliminating stumps	2025/006	. {Tubular drip irrigation dispensers mounted coaxially within water feeding tubes}
23/062	. . . {Pulling up trees or stumps}	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
23/065	. . . . {in a substantially vertical plane}	25/023	. . {Dispensing fittings for drip irrigation, e.g. drippers}
23/067	. . . {by comminuting the tree stumps}	25/026	. . {Apparatus or processes for fitting the drippers to the hoses or the pipes}
23/08	. . Felling trees	25/06	. Watering arrangements making use of perforated pipe-lines located in the soil
23/081	. . . Feller-bunchers, i.e. with bunching by felling head (A01G 23/083 takes precedence)	25/09	. Watering arrangements making use of movable installations on wheels or the like
23/083	. . . Feller-delimbers	25/092	. . {movable around a pivot centre}
23/085	. . . . having the shearing head mounted on a first boom and the delimbing head mounted on a second boom	25/095	. . {winch-driven (A01G 25/097 takes precedence)}
23/087	. . . Shearing apparatus or the like specially adapted for felling trees (A01G 23/081 , A01G 23/083 , A01G 23/093 take precedence)	25/097	. . {guided or propelled along a water supply line with supply line traversing means}
23/089	. . . . having two or more shears	25/14	. Hand watering devices, e.g. watering cans
23/09	. . . . of the percussion type	25/145	. . {with pumps}
23/091	. . . Sawing apparatus specially adapted for felling trees (A01G 23/081 , A01G 23/083 , A01G 23/093 take precedence)	25/16	. Control of watering
23/093	. . . Combinations of shearing, sawing or milling apparatus specially adapted for felling trees	25/162	. . {Sequential operation}
23/095	. . Delimbers (A01G 23/083 takes precedence)	25/165	. . {Cyclic operations, timing systems, timing valves, impulse operations}
23/0955	. . . {Self-propelled along standing trees}	25/167	. . {Control by humidity of the soil itself or of devices simulating soil or of the atmosphere; Soil humidity sensors}
23/097	. . . having a fixed delimbing head	27/00	Self-acting watering devices, e.g. for flower-pots
23/099	. . Auxiliary devices, e.g. felling wedges	27/001	. {with intermittent watering means}
23/10	. Tapping of tree-juices, e.g. caoutchouc, gum	27/003	. {Controls for self-acting watering devices}
23/12	. . Knives or axes for tapping	27/005	. {Reservoirs connected to flower-pots through conduits}
23/14	. . Tapping-spouts; Receptacles for juices	27/006	. {Reservoirs, separate from plant-pots, dispensing directly into rooting medium}
24/00	Growth substrates; Culture media; Apparatus or methods therefor (for mushrooms A01G 18/20)	27/008	. {Component parts, e.g. dispensing fittings, level indicators}
24/10	. based on or containing inorganic material	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)
24/12	. . containing soil minerals	27/04	. using wicks or the like
24/13	. . . Zeolites	27/06	. . having a water reservoir, the main part thereof being located wholly around or directly beside the growth substrate
24/15	. . . Calcined rock, e.g. perlite, vermiculite or clay aggregates	29/00	Root feeders; Injecting fertilisers into the roots
24/17	. . containing slag	31/00	Soilless cultivation, e.g. hydroponics (growth substrates therefor A01G 24/00 ; cultivation of seaweed A01G 33/00)
24/18	. . containing inorganic fibres, e.g. mineral wool	2031/006	. {with means for recycling the nutritive solution}
24/20	. based on or containing natural organic material	31/02	. Special apparatus therefor (self-acting watering devices A01G 27/00)
24/22	. . containing plant material	31/04	. . Hydroponic culture on conveyors
24/23	. . . Wood, e.g. wood chips or sawdust	31/042	. . . {with containers travelling on a belt or the like, or conveyed by chains}
24/25	. . . Dry fruit hulls or husks, e.g. chaff or coir	31/045	. . . . {with containers guided along a rail}
24/27	. . . Pulp, e.g. bagasse	31/047	. . . . {with containers inside rotating drums or rotating around a horizontal axis, e.g. carousels}
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)		

A01G

- 31/06 . . Hydroponic culture on racks or in stacked containers
- 33/00 Cultivation of seaweed {or algae}