

CPC COOPERATIVE PATENT CLASSIFICATION

A HUMAN NECESSITIES

AGRICULTURE

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

A01B SOIL WORKING IN AGRICULTURE OR FORESTRY; PARTS, DETAILS, OR ACCESSORIES OF AGRICULTURAL MACHINES OR IMPLEMENTS, IN GENERAL (making or covering furrows or holes for sowing, planting, or manuring [A01C 5/00](#); soil working for engineering purposes [E01](#), [E02](#), [E21](#); {measuring areas for agricultural purposes [G01B](#)})

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:
[A01B 69/04](#) covered by [A01B 69/008](#)
[A01B 69/06](#) covered by [A01B 69/005](#)
[A01B 69/08](#) covered by [A01B 69/006](#)
- 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.

1/00	Hand tools (edge trimmers for lawns A01G 3/06 ; machines for working soil A01B 35/00 ; making hand tools B21D))	Ploughs	
		3/00	Ploughs with fixed plough-shares
1/02	. Spades; Shovels {(hand-operated dredgers E02F 3/02)}	3/02	. Man-driven ploughs
		3/04	. Animal-drawn ploughs
1/022	. . {Collapsible; extensible; combinations with other tools}	3/06	. . without alternating possibility, i.e. incapable of making an adjacent furrow on return journey {, i.e. conventional ploughing }
1/024	. . {Foot protectors attached to the blade}	3/08	. . . Swing ploughs
1/026	. . {with auxiliary handles for facilitating lifting}	3/10	. . . Trussed-beam ploughs; Single-wheel ploughs
1/028	. . {with ground abutment shoes or earth anchors for facilitating lifting}	3/12	. . . Two-wheel beam ploughs
1/04	. . with teeth	3/14	. . . Frame ploughs
1/06	. Hoes; Hand cultivators {(rakes A01D 7/00 ; forks A01D 9/00 ; picks B25D)}	3/16	. . Alternating ploughs, i.e. capable of making an adjacent furrow on return journey
1/065	. . {powered}	3/18	. . . Turn-wrest ploughs
1/08	. . with a single blade	3/20	. . . Balance ploughs
1/10	. . with two or more blades	3/22	. . . with parallel plough units used alternately
1/12	. . with blades provided with teeth	3/24	. Tractor-drawn ploughs (A01B 3/04 takes precedence)
1/14	. . with teeth only	3/26	. . without alternating possibility
1/16	. Tools for uprooting weeds	3/28	. . Alternating ploughs
1/165	. . {adapted for extracting a substantially cylindrical plug out of the earth}	3/30	. . . Turn-wrest ploughs
1/18	. . Tong-like tools	3/32	. . . Balance ploughs
1/20	. Combinations of different kinds of hand tools	3/34	. . . with parallel plough units used alternately
1/22	. Attaching the blades or the like to handles (handles for tools, or their attachment, in general B25G); Interchangeable or adjustable blades	3/36	. Ploughs mounted on tractors
		3/38	. . without alternating possibility
		3/40	. . Alternating ploughs
1/222	. . {Adjustable blades}	3/42	. . . Turn-wrest ploughs
1/225	. . . {around a substantially horizontal axis}	3/421	. . . . with a headstock frame made in one piece
1/227	. . {Interchangeable blades}	3/4215	. . . . {the headstock being provided with two or more hydraulic cylinders}
1/24	. for treating meadows or lawns	3/426	. . . . with a headstock frame made of two or more parts
1/243	. . {for aerating}	3/44	. . . with parallel plough units used alternately
1/246	. . {for cutting sods or turves}	3/46	. Ploughs supported partly by tractor and partly by their own wheels

- 3/462 . . {Alternating ploughs with frame rotating about a vertical axis}
- 3/464 . . {Alternating ploughs with frame rotating about a horizontal axis, e.g. turn-wrest ploughs}
- 3/466 . . . {the frame comprising an articulated beam}
- 3/468 . . {the plough wheels being actively driven}
- 3/50 . Self-propelled ploughs
- 3/52 . . with three or more wheels, or endless tracks
- 3/54 . . . without alternating possibility
- 3/56 . . . Alternating ploughs {; Balance ploughs}
- 3/58 . . with two wheels
- 3/60 . . . Alternating ploughs
- 3/62 Balance ploughs
- 3/64 . Cable ploughs; Indicating or signalling devices for cable plough systems {(vehicles towed by cable [B60D](#))}
- 3/66 . . with motor-driven winding apparatus mounted on the plough
- 3/68 . . Cable systems with one or two engines {; e.g. electrically-driven or with diesel generating set}
- 3/70 . . . Systems with one engine for working uphill
- 3/72 . . Means for anchoring the cables
- 3/74 . Use of electric power for propelling ploughs {for rotary cultivators or the like (electric current collectors [B60L 5/00](#))}
- 5/00 Ploughs with rolling non-driven tools, e.g. discs (with rotary driven tools [A01B 9/00](#))**
- 5/02 . drawn by animals
- 5/04 . drawn by tractors
- 5/06 . . without alternating possibility {, e.g. with rotary counters provided with scrapers}
- 5/08 . . Alternating ploughs
- 5/10 . mounted or partly-mounted on tractors
- 5/12 . . without alternating possibility
- 5/14 . . Alternating ploughs
- 5/16 . Self-propelled disc or like ploughs
- 7/00 Disc-like soil-working implements usable either as ploughs or as harrows, or the like**
- 9/00 Ploughs with rotary driven tools (tilling implements with rotary driven tools [A01B 33/00](#))**
- 9/003 . {with tools on horizontal shaft transverse to direction of travel}
- 9/006 . {with tools on horizontal shaft parallel to direction of travel}
- 11/00 Ploughs with oscillating, digging or piercing tools {driven or not}**
- 13/00 Ploughs or like machines for special purposes (for drainage [E02B 11/02](#)) {; Ditch diggers, trench ploughs, forestry ploughs, ploughs for land or marsh reclamation (machines for aerating meadows [A01B 45/02](#); making furrows [A01C 5/00](#); dredging machines in general [E02F](#))}**
- 13/02 . for making or working ridges, e.g. with symmetrically arranged mouldboards {, e.g. ridging plough}
- 13/025 . . {with passively driven rotating disc-like elements for forming the ridge}
- 13/04 . for working in vineyards, orchards, or the like
- 13/06 . . Arrangements for preventing damage to the vines, or the like {, e.g. hydraulic (machines specially adapted for working in vineyards [A01B 39/16](#))}
- 13/08 . for working subsoil
- 13/10 . . Special implements for lifting subsoil layers
- 13/12 . . . Means for distributing the layers on the surface
- 13/14 . for working soil in two or more layers
- 13/16 . Machines for combating erosion, e.g. basin-diggers, furrow-dammers
- 15/00 Elements, tools, or details of ploughs**
- 15/02 . Plough blades; Fixing the blades
- 15/025 . . {specially adapted for working subsoil}
- 15/04 . . Shares {(making ploughshares by rolling [B21H](#))}
- 15/06 . . . Interchangeable or adjustable shares
- 15/08 . . Mouldboards
- 15/10 . . . Interchangeable or adjustable mouldboards
- 15/12 . Beams; Handles (handles for tools or their attachment in general [B25G](#))
- 15/125 . . {Articulated beams}
- 15/14 . Frames (means or arrangements to facilitate transportation [A01B 73/00](#))
- 15/145 . . {the plough blades being connected to the plough beam for unisono adjustment of the furrow width}
- 15/16 . Discs (bearings therefor [A01B 71/04](#)); Scrapers for cleaning discs; Sharpening attachments (sharpening in general [B24](#))
- 15/18 . Coulters
- 15/20 . Special adjusting means for tools of ploughs drawn by, or mounted on tractors working on hillsides or slopes
- 17/00 Ploughs with special additional arrangements, e.g. means for putting manure under the soil, clod-crushers ([A01B 49/00](#) takes precedence); {Means for breaking the subsoil}**
- 17/002 . {Means for putting manure, debris, straw or the like under the soil (to plough-in weeds [A01B 39/18](#))}
- 17/004 . {Clod-crushers}
- 17/006 . . {with driven tools}
- 17/008 . . . {rotating about a vertical or steeply inclined axis}
- Harrows**
- 19/00 Harrows with non-rotating tools {(harrows for working in vineyards [A01B 39/16](#))}**
- 19/02 . with tools rigidly or elastically attached to a tool-frame
- 19/04 . . with two or more tool-frames
- 19/06 . . with tools or tool-frames moved to-and-fro mechanically
- 19/08 . with link network supporting tooth-like tools
- 19/10 . Lifting or cleaning apparatus
- 21/00 Harrows with rotary non-driven tools (tilling implements with rotary driven tools [A01B 33/00](#))**
- 21/02 . with tooth-like tools
- 21/04 . . on horizontally-arranged axles
- 21/06 . . on vertically-arranged axles
- 21/08 . with disc-like tools
- 21/083 . . {of the type comprising four individual disk groups each pivotally connected at fixed locations to a substantially rigid frame}
- 21/086 . . {of the type in which the disc-like tools are individually mounted}
- 23/00 Elements, tools, or details of harrows**

23/02	• Teeth; Fixing the teeth	33/10	• • Structural or functional features of the tools {; Theoretical aspects of the cutting action}
23/04	• Frames (means or arrangements to facilitate transportation A01B 73/00); Drawing-arrangements	33/103	• • • {the rotating shaft being oriented horizontally}
23/043	• • {specially adapted for harrows with non-rotating tools}	33/106	• • • {the rotating shaft being oriented vertically or steeply inclined}
23/046	• • {Specially adapted for harrows with rotating tools}	33/12	• • Arrangement of the tools; Screening of the tools
23/06	• Discs (A01B 15/16 takes precedence; bearings therefor A01B 71/04); Scrapers for cleaning discs; Sharpening attachments; {Lubrication of bearings} (sharpening in general B24)	33/125	• • • {screening of tools rotating about a vertical shaft}
25/00	Harrows with special additional arrangements, e.g. means for distributing fertilisers; Harrows for special purposes (A01B 39/00 takes precedence {; fertiliser distributors A01C 15/00)}	33/14	• • Attaching the tools to the rotating shaft, e.g. resiliently {or flexibly}-attached tools
Other machines for working soil		33/142	• • • {the rotating shaft being oriented horizontally}
27/00	Clod-crushers	33/144	• • • • {with spring tools or resiliently-attached rigid tools}
27/005	• {comprising roller-type tools moving on the ground}	33/146	• • • {the rotating shaft being oriented vertically or steeply inclined}
29/00	Rollers {(rollers for roads E01C)}	33/148	• • • • {with spring tools or resiliently-attached rigid tools}
29/02	• with smooth surface	33/16	• with special additional arrangements (A01B 49/00 takes precedence; for sowing or fertilising A01B 49/06)
29/04	• with non-smooth surface formed of rotatably-mounted rings or discs or with projections or ribs on the roller body; Land packers	35/00	Other machines for working soil {not specially adapted for working soil on which crops are growing} (A01B 37/00, A01B 39/00, A01B 77/00 take precedence {; hand tools A01B 1/00)}
29/041	• • {of "Cambridge"-type, i.e. the soil-pressing rings being stacked on a shaft}	35/02	• with non-rotating tools
29/043	• • • {Tire-packers}	35/04	• • drawn by animal or tractor {or man-power}
29/045	• • {the soil-pressing body being a drum}	35/06	• • • with spring tools {or with resiliently- or flexibly-attached rigid tools}
29/046	• • {the soil-pressing body being a helical coil}	35/08	• • • with rigid tools
29/048	• • {Bar cage rollers}	35/10	• • mounted on tractors
29/06	• with special additional arrangements	35/12	• • • with spring tools {or with resiliently- or flexibly-attached rigid tools}
31/00	Drags {graders for field cultivators (graders in general E02F)}	35/14	• • • with rigid tools
33/00	Tilling implements with rotary driven tools {, e.g. in combination with fertiliser distributors or seeders, with grubbing chains, with sloping axles, with driven discs}	35/16	• with rotating or circulating non-propelled tools
33/02	• with tools on horizontal shaft transverse to direction of travel	35/18	• with both rotating and non-rotating tools
33/021	• • {with rigid tools}	35/20	• Tools; Details
33/022	• • • {with helicoidal tools}	35/22	• • Non-rotating tools; {Resilient or flexible mounting of rigid tools}
33/024	• • • {with disk-like tools}	35/225	• • • {the tools being adapted to allow the chisel point to be easily fitted or removed from the shank}
33/025	• • {with spring tools, i.e. resiliently- or flexibly-attached rigid tools}	35/24	• • • Spring tools
33/027	• • {Operator supported tools, e.g. using a harness for supporting the tool or power unit}	35/26	• • • Rigid tools
33/028	• • {of the walk-behind type (walk-type tractors B62D 51/04)}	35/28	• • Rotating tools; Mounting rotating tools
33/04	• with tools on horizontal shaft parallel to direction of travel	35/30	• • Undercarriages (A01B 23/04 takes precedence)
33/06	• with tools on vertical or steeply-inclined shaft	35/32	• with special additional arrangements
33/065	• • {comprising a plurality of rotors carried by an elongate, substantially closed transmission casing, transversely connectable to a tractor}	37/00	Devices for loosening soil compacted by wheels or the like
33/08	• Tools; Details, e.g. adaptations of transmissions or gearings	39/00	Other machines specially adapted for working soil on which crops are growing
33/082	• • {Transmissions; Gearings; Power distribution}	39/02	• with non-rotating tools
33/085	• • • {specially adapted for tools on a vertical shaft}	39/04	• • drawn by animal or tractor
33/087	• • {Lifting devices; Depth regulation devices; Mountings}	39/06	• • Self-propelled machines
		39/08	• with rotating tools {such as weeding machines}
		39/085	• • {the rotating tools being actively driven}
		39/10	• with oscillating tools {driven or not}
		39/12	• for special purposes {, e.g. for special culture}
		39/14	• • for working ridges {, e.g. for rows of plants and/or furrows}

39/16	. . for working in vineyards, orchards, or the like {; Arrangements for preventing damage to vines (ploughs adapted for working in vineyards A01B 13/06)}	51/026	. . {of the automotive vehicle type, e.g. including driver accommodation (A01B 51/023 takes precedence)}
39/163	. . . {comprising rotating tools}	51/04	. drawn by animal or tractor
39/166	. . . . {actively driven}	51/045	. . {drawn by animals}
39/18	. . for weeding	59/00	Devices specially adapted for connection between animals or tractors and agricultural machines or implements (A01B 63/00 takes precedence; vehicle connections in general B60D; draught assemblies for animal drawn vehicles, in general B62C 5/00)
39/19	. . . Rod weeders, i.e. weeder with rotary rods propelled beneath the soil surface	59/002	. {Details, component parts}
39/20	. Tools; Details	59/004	. . {Length-adjustable links}
39/22	. . Tools; Mounting tools	59/006	. . {Latched hooks}
39/24	. . Undercarriages (A01B 23/04 takes precedence)	59/008	. . {Link connectors with spherical surfaces}
39/26	. . Arrangements for protecting plants {, e.g. fenders}	59/02	. for animal-drawn machines
39/28	. with special additional arrangements (A01B 49/00 takes precedence)	59/04	. for machines pulled or pushed by a tractor
41/00	Thinning machines	59/041	. . preventing or limiting side-play of implements (preventing overstrain A01B 61/00)
41/02	. with oscillating tools	59/0415	. . . {by hydraulic or pneumatic means acting on the lower draft links}
41/04	. with rotating tools	59/042	. . having pulling means arranged on the rear part of the tractor
41/06	. with electric, e.g. photo-electric control of thinning operations	59/043	. . . supported at three points, e.g. by quick-release couplings (A01B 59/06 takes precedence)
43/00	Gatherers for removing stones, undesirable roots or the like from the soil, e.g. tractor-drawn rakes {(for harvesting root crops A01D)}	59/044	. . having pulling means arranged on the middle part of the tractor
43/005	. {Windrower-type machines}	59/046	. . having pulling or pushing means arranged on the side of the tractor
45/00	Machines for treating meadows or lawns {, e.g. for sports grounds}	59/048	. . having pulling or pushing means arranged on the front part of the tractor
45/02	. for aerating	59/06	. for machines mounted on tractors
45/023	. . {Perforators comprising spiking tools actively driven in a reciprocating movement through a crankshaft or eccentric mechanism}	59/061	. . {specially adapted for enabling connection or disconnection controlled from the driver's seat (not used, see subgroups)}
45/026	. . {Scarifiers comprising a knife reel actively driven around a substantially horizontal shaft}	59/062	. . . {the connection comprising a rigid interface frame on the tractor}
47/00	Soil-working with electric potential applied between tools and soil	59/063	. . . {the connection comprising longitudinally oriented tang-and-sheath elements}
49/00	Combined machines (auxiliary devices attached to machines of a different kind, e.g. harrows attached to ploughs, see the relevant groups for the machines)	59/064	. . {for connection to the front of the tractor}
49/02	. with two or more soil-working tools of different kind	59/065	. . {for ploughs or like implements (A01B 59/061 and subgroups take precedence)}
49/022	. . {at least one tool being actively driven}	59/066	. . {of the type comprising at least two lower arms and one upper arm generally arranged in a triangle (e.g. three-point hitches)}
49/025	. . . {about a substantially vertical axis}	59/067	. . . {the lower arms being lifted or lowered by power actuator means internally incorporated in the tractor}
49/027	. . {with a rotating, soil working support element, e.g. a roller}	59/068	. . . {the lower arms being lifted or lowered by power actuator means provided externally on the tractor}
49/04	. Combinations of soil-working tools with non- soil-working tools, e.g. planting tools {(seeding machines A01C 7/00 ; harvesters combined with soil-working implements A01D 43/12)}	59/069	. . {with means for weighing the implement}
49/06	. . for sowing or fertilising	61/00	Devices for, or parts of, agricultural machines or implements for preventing overstrain (preventing overstrain in vehicle connections, in general B60D; preventing overstrain in couplings per se F16D)
49/065	. . . {the soil-working tools being actively driven}	61/02	. of the coupling devices between tractor and machine
Parts, details or accessories of agricultural machines or implements, in general (seat constructions A47C ; wheels B60B ; shelters for drivers B60J ; seats specially adapted for vehicles B60N 2/00 ; wheel scrapers B60S 1/68)		61/025	. . {the driving connections}
51/00	Undercarriages specially adapted for mounting- on various kinds of agricultural tools or apparatus (general vehicle aspects, see the relevant subclass of class B60 or B62)	61/04	. of the connection between tools and carrier beam or frame
51/02	. propelled by a motor	61/042	. . {with shearing devices}
51/023	. . {of the Gantry-type}	61/044	. . {the connection enabling a yielding pivoting movement around a substantially horizontal and transverse axis}

61/046	. . . {the device including an energy accumulator for restoring the tool to its working position}	63/20	. . . with gear and rack
61/048	. . . . {the connection or the energy accumulator being active in two opposite directions, e.g. for reversible plows}	63/22	. . . operated by hydraulic or pneumatic means
63/00	Lifting or adjusting devices or arrangements for agricultural machines or implements (lifting mechanisms for the cutter-bar of a mower A01D 34/24 ; adjusting devices for the cutter-bar of a mower A01D 34/28 ; constructional features of lifting devices per se B66F)	63/24	. . Tools or tool-holders adjustable relatively to the frame
63/002	. {Devices for adjusting or regulating the position of tools or wheels (preventing overstrain A01B 61/00 ; wheels adjustable relatively to the frame for drawn implements A01B 3/16 ; tools or tool holders adjustable relatively to the frame for drawn implements A01B 63/24)}	63/245	. . . {laterally adjustable}
63/004	. . {Lateral adjustment of tools}	63/26	. . . by man-power
63/006	. . {Lateral adjustment of wheels}	63/28	. . . operated by the machine or implement
63/008	. . {Vertical adjustment of tools (A01B 63/10 takes precedence)}	63/30	. . . operated by motor power through a mechanical transmission
63/02	. for implements mounted on tractors	63/32	. . . operated by hydraulic or pneumatic means {without automatic control}
63/023	. . {Lateral adjustment of their tools}	67/00	Devices for controlling the tractor motor by resistance of tools (preventing overstrain A01B 61/00)
63/026	. . {Lateral adjustment of their wheels}	69/00	Steering of agricultural machines or implements; Guiding agricultural machines or implements on a desired track (vehicle course control in general G05D 1/02)
63/04	. . Hand devices; Hand devices with mechanical accumulators, e.g. springs	NOTE	In this group it is obligatory to classify subject-matter in the first appropriate place. It is however allowed to apply multiple classification where considered useful for search
63/045	. . . {for vertically adjusting wheels or similar rotary supporting elements}	69/001	. {Steering by means of optical assistance, e.g. television cameras (steering devices for road marking vehicles E01C 23/163)}
63/06	. . operated mechanically by tractor motor	69/002	. {Steering or guiding on a substantially circular or spiral path}
63/08	. . operated by the movement of the tractor	69/003	. {Steering or guiding of machines or implements pushed or pulled by or mounted on agricultural vehicles such as tractors, e.g. by lateral shifting of the towing connection}
63/10	. . operated by hydraulic or pneumatic means	69/004	. . {automatic}
63/1006	. . . {the hydraulic or pneumatic means structurally belonging to the tractor}	69/005	. . {by an additional operator}
63/1013	. . . . {and being located inside the tractor body}	69/006	. . {derived from the steering of the tractor}
63/102	. . . characterised by the location of the mounting on the tractor, e.g. on the rear part	69/007	. {Steering or guiding of agricultural vehicles, e.g. steering of the tractor to keep the plough in the furrow}
63/104	. . . . on the middle part, i.e. between front and rear wheels	69/008	. . {automatic}
63/106	. . . . on the side	69/02	. Ridge-marking or like devices; Checkrow wires; Accessories therefor
63/108	. . . . on the front part	69/022	. . {Ridge marking by deposition of a chemical substance, e.g. foam, on the surface of the soil}
63/11	. . . for controlling weight transfer between implements and tractor wheels	69/024	. . {adapted to cut and form a ridge or furrow in the soil surface, e.g. with a disc}
63/111	. . . regulating working depth of implements	69/026	. . {Checkrow wires}
63/1112	. . . . {using a non-tactile ground distance measurement, e.g. using reflection of waves}	69/028	. . . {the wire being located above the ground}
63/1115	. . . . {using a mechanical ground contact sensor}	71/00	Construction or arrangement of setting or adjusting mechanisms, of implement or tool drive or of power take-off; Means for protecting parts against dust, or the like; Adapting machine elements to or for agricultural purposes {(adjusting mechanisms in general G05G)}
63/1117	. . . . {using a hitch position sensor}	71/02	. Setting or adjusting mechanisms
63/112	. . . . to control draught load, i.e. tractive force	71/04	. Bearings of rotating parts, e.g. for soil-working discs ({discs A01B 15/16 , A01B 23/06 }; bearings in general F16C)
63/114	. . . . to achieve a constant working depth	71/06	. Special adaptations of coupling means between power take-off and transmission shaft to the implement or machine (couplings for transmitting rotation F16D)
63/1145	. . . . . {for controlling weight transfer between implements and tractor wheels}		
63/118	. . . Mounting implements on power-lift linkages (A01B 59/043 takes precedence; preventing or limiting side-play of implements A01B 59/041 ; preventing overstrain A01B 61/00)		
63/12	. . operated by an electric motor		
63/14	. for implements drawn by animals or tractors		
63/145	. . {for controlling weight transfer between implements and tractor wheels}		
63/16	. . with wheels adjustable relatively to the frame		
63/163	. . . {laterally adjustable}		
63/166	. . . {manually adjustable}		
63/18	. . . with clutch between Z-type axle and wheel		

- 71/063 . . {for enabling transmission coupling and connection between tractor and implements to be controlled from the driver's seat}
- 71/066 . . {for enabling pitch, roll or yaw movements of trailed implements or machines}
- 71/08 . Means for protecting against dust, or the like, or for cleaning agricultural implements ([A01B 15/16](#), [A01B 19/10](#) and [A01B 23/06](#) take precedence; screening of rotary driven tilling tools [A01B 33/12](#); screening of rotary parts in general [F16P 1/00](#))
- 73/00 Means or arrangements to facilitate transportation of agricultural machines or implements, e.g. folding frames to reduce overall width** (arrangements of lifting devices for soil working implements [A01B 63/00](#); {carriers for harvesters or mowers [A01D 75/002](#); arrangements or carriers for haymakers [A01D 78/1007](#), [A01D 80/005](#); } vehicles adapted for load transportation or to transport, to carry or to comprise special loads or objects [B60P](#); motor vehicles, trailers [B62D](#))
- 73/005 . {for endwise transportation, i.e. the direction of transport being substantially perpendicular to the direction of agricultural operation ([A01B 73/02](#) takes precedence)}
- 73/02 . Folding frames
- 73/04 . . foldable about a horizontal axis
- 73/042 . . . {specially adapted for actively driven implements}
- 73/044 . . . {the axis being oriented in a longitudinal direction ([A01B 73/042](#) takes precedence)}
- 73/046 {each folding frame part being foldable in itself}
- 73/048 . . . {the axis being oriented in transverse direction ([A01B 73/042](#) takes precedence)}
- 73/06 . . foldable about a vertical axis
- 73/062 . . . {of the type comprising four vertical folding axes each disposed at a substantially fixed location of a supporting frame}
- 73/065 . . . {to a position essentially forward of the axis, in relation to the direction of travel}
- 73/067 . . . {to a position essentially rearward of the axis, in relation to the direction of travel}
- 75/00 Carriers for supporting persons when working in the field, e.g. while thinning beet**
- 76/00 Parts, details or accessories of agricultural machines or implements, not provided for in groups [A01B 51/00](#) - [A01B 75/00](#)**
- 77/00 Machines for lifting and treating soil (biocides, pest repellants or attractants, plant growth regulators [A01N 25/00](#) - [A01N 65/00](#); fertilisers [C05](#); soil-conditioning or soil-stabilising materials [C09K 17/00](#))**
- 79/00 Methods for working soil (essentially requiring the use of particular machines, [see](#) the relevant groups for the machines)**
- 79/005 . {Precision agriculture}
- 79/02 . combined with other agricultural processing, e.g. fertilising, planting