

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](#)})

WARNING

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

1/00	Hand tools (edge trimmers for lawns A01G 3/06 ; machines for working soil A01B 35/00 ; making hand tools B21D)	3/04	. Animal-drawn ploughs
1/02	. Spades; Shovels {(hand-operated dredgers E02F 3/02)}	3/06	. . without alternating possibility, i.e. incapable of making an adjacent furrow on return journey {, i.e. conventional ploughing }
1/022	. . {Collapsible; extensible; combinations with other tools}	3/08	. . . Swing ploughs
1/024	. . {Foot protectors attached to the blade}	3/10	. . . Trussed-beam ploughs; Single-wheel ploughs
1/026	. . {with auxiliary handles for facilitating lifting}	3/12	. . . Two-wheel beam ploughs
1/028	. . {with ground abutment shoes or earth anchors for facilitating lifting}	3/14	. . . Frame ploughs
1/04	. . with teeth	3/16	. . Alternating ploughs, i.e. capable of making an adjacent furrow on return journey
1/06	. Hoes; Hand cultivators {(rakes A01D 7/00 ; forks A01D 9/00 ; picks B25D)}	3/18	. . . Turn-wrest ploughs
1/065	. . {powered}	3/20	. . . Balance ploughs
1/08	. . with a single blade	3/22	. . . with parallel plough units used alternately
1/10	. . with two or more blades	3/24	. Tractor-drawn ploughs (A01B 3/04 takes precedence)
1/12	. . with blades provided with teeth	3/26	. . without alternating possibility
1/14	. . with teeth only	3/28	. . Alternating ploughs
1/16	. Tools for uprooting weeds	3/30	. . . Turn-wrest ploughs
1/165	. . {adapted for extracting a substantially cylindrical plug out of the earth}	3/32	. . . Balance ploughs
1/18	. . Tong-like tools	3/34	. . . with parallel plough units used alternately
1/20	. Combinations of different kinds of hand tools	3/36	. Ploughs mounted on tractors
1/22	. Attaching the blades or the like to handles (handles for tools, or their attachment, in general B25G); Interchangeable or adjustable blades	3/38	. . without alternating possibility
1/222	. . {Adjustable blades}	3/40	. . Alternating ploughs
1/225	. . . {around a substantially horizontal axis}	3/42	. . . Turn-wrest ploughs
1/227	. . {Interchangeable blades}	3/421	. . . . with a headstock frame made in one piece
1/24	. for treating meadows or lawns	3/4215	. . . . . {the headstock being provided with two or more hydraulic cylinders}
1/243	. . {for aerating}	3/426	. . . . with a headstock frame made of two or more parts
1/246	. . {for cutting sods or turves}	3/44	. . . with parallel plough units used alternately
Ploughs		3/46	. Ploughs supported partly by tractor and partly by their own wheels
3/00	Ploughs with fixed plough-shares	3/462	. . {Alternating ploughs with frame rotating about a vertical axis}
3/02	. Man-driven ploughs	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	13/16	• Machines for combating erosion, e.g. basin-diggers, furrow-dammers
3/52	• . with three or more wheels, or endless tracks		
3/54	• . . without alternating possibility	15/00	Elements, tools, or details of ploughs
3/56	• . . Alternating ploughs {; Balance ploughs }	15/02	• Plough blades; Fixing the blades
3/58	• . with two wheels	15/025	• . { specially adapted for working subsoil }
3/60	• . . Alternating ploughs	15/04	• . Shares {(making ploughshares by rolling B21H)}
3/62	• . . . Balance ploughs	15/06	• . . Interchangeable or adjustable shares
3/64	• Cable ploughs; Indicating or signalling devices for cable plough systems {(vehicles towed by cable B60D)}	15/08	• . Mouldboards
3/66	• . with motor-driven winding apparatus mounted on the plough	15/10	• . . Interchangeable or adjustable mouldboards
3/68	• . Cable systems with one or two engines {; e.g. electrically-driven or with diesel generating set }	15/12	• Beams; Handles (handles for tools or their attachment in general B25G)
3/70	• . . Systems with one engine for working uphill	15/125	• . { Articulated beams }
3/72	• . Means for anchoring the cables	15/14	• Frames (means or arrangements to facilitate transportation A01B 73/00)
3/74	• Use of electric power for propelling ploughs {for rotary cultivators or the like (electric current collectors B60L 5/00)}	15/145	• . {the plough blades being connected to the plough beam for unisono adjustment of the furrow width}
5/00	Ploughs with rolling non-driven tools, e.g. discs (with rotary driven tools A01B 9/00)	15/16	• Discs (bearings therefor A01B 71/04); Scrapers for cleaning discs; Sharpening attachments (sharpening in general B24)
5/02	• drawn by animals	15/18	• Coulters
5/04	• drawn by tractors	15/20	• Special adjusting means for tools of ploughs drawn by, or mounted on tractors working on hillsides or slopes
5/06	• . without alternating possibility {, e.g. with rotary counters provided with scrapers}	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}
5/08	• . Alternating ploughs	17/002	• { Means for putting manure, debris, straw or the like under the soil (to plough-in weeds A01B 39/18) }
5/10	• mounted or partly-mounted on tractors	17/004	• { Clod-crushers }
5/12	• . without alternating possibility	17/006	• . {with driven tools}
5/14	• . Alternating ploughs	17/008	• . . {rotating about a vertical or steeply inclined axis}
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	Harrows	
9/00	Ploughs with rotary driven tools (tilling implements with rotary driven tools A01B 33/00)	19/00	Harrows with non-rotating tools {(harrows for working in vineyards A01B 39/16)}
9/003	• {with tools on horizontal shaft transverse to direction of travel}	19/02	• with tools rigidly or elastically attached to a tool-frame
9/006	• {with tools on horizontal shaft parallel to direction of travel}	19/04	• . with two or more tool-frames
11/00	Ploughs with oscillating, digging or piercing tools {driven or not}	19/06	• . with tools or tool-frames moved to-and-fro mechanically
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)}	19/08	• with link network supporting tooth-like tools
13/02	• for making or working ridges, e.g. with symmetrically arranged mouldboards {, e.g. ridging plough }	19/10	• Lifting or cleaning apparatus
13/025	• . {with passively driven rotating disc-like elements for forming the ridge}	21/00	Harrows with rotary non-driven tools (tilling implements with rotary driven tools A01B 33/00)
13/04	• for working in vineyards, orchards, or the like	21/02	• with tooth-like tools
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) }	21/04	• . on horizontally-arranged axles
13/08	• for working subsoil	21/06	• . on vertically-arranged axles
13/10	• . Special implements for lifting subsoil layers	21/08	• with disc-like tools
13/12	• . . Means for distributing the layers on the surface	21/083	• . {of the type comprising four individual disk groups each pivotally connected at fixed locations to a substantially rigid frame}
13/14	• for working soil in two or more layers	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
		23/04	• Frames (means or arrangements to facilitate transportation A01B 73/00); Drawing-arrangements

- 23/043 . . {specially adapted for harrows with non-rotating tools}
- 23/046 . . {Specially adapted for harrows with rotating 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](#))
- 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](#))}**

Other machines for working soil

- 27/00 Clod-crushers**
- 27/005 . {comprising roller-type tools moving on the ground}
- 29/00 Rollers {(rollers for roads [E01C](#))}**
- 29/02 . with smooth surface
- 29/04 . with non-smooth surface formed of rotatably-mounted rings or discs or with projections or ribs on the roller body; Land packers
- 29/041 . . {of "Cambridge"-type, i.e. the soil-pressing rings being stacked on a shaft}
- 29/043 . . . {Tire-packers}
- 29/045 . . {the soil-pressing body being a drum}
- 29/046 . . {the soil-pressing body being a helical coil}
- 29/048 . . {Bar cage rollers}
- 29/06 . with special additional arrangements
- 31/00 Drags {graders for field cultivators ([graders in general E02F](#))}**
- 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}**
- 33/02 . with tools on horizontal shaft transverse to direction of travel
- 33/021 . . {with rigid tools}
- 33/022 . . . {with helicoidal tools}
- 33/024 . . . {with disk-like tools}
- 33/025 . . {with spring tools, i.e. resiliently- or flexibly-attached rigid tools}
- 33/027 . . {Operator supported tools, e.g. using a harness for supporting the tool or power unit}
- 33/028 . . {of the walk-behind type ([walk-type tractors B62D 51/04](#))}
- 33/04 . with tools on horizontal shaft parallel to direction of travel
- 33/06 . with tools on vertical or steeply-inclined shaft
- 33/065 . . {comprising a plurality of rotors carried by an elongate, substantially closed transmission casing, transversely connectable to a tractor}
- 33/08 . Tools; Details, e.g. adaptations of transmissions or gearings
- 33/082 . . {Transmissions; Gearings; Power distribution}
- 33/085 . . . {specially adapted for tools on a vertical shaft}
- 33/087 . . {Lifting devices; Depth regulation devices; Mountings}
- 33/10 . . Structural or functional features of the tools {; Theoretical aspects of the cutting action}
- 33/103 . . . {the rotating shaft being oriented horizontally}

- 33/106 . . . {the rotating shaft being oriented vertically or steeply inclined}
- 33/12 . . Arrangement of the tools; Screening of the tools
- 33/125 . . . {screening of tools rotating about a vertical shaft}
- 33/14 . . Attaching the tools to the rotating shaft, e.g. resiliently {or flexibly}-attached tools
- 33/142 . . . {the rotating shaft being oriented horizontally}
- 33/144 {with spring tools or resiliently-attached rigid tools}
- 33/146 . . . {the rotating shaft being oriented vertically or steeply inclined}
- 33/148 {with spring tools or resiliently-attached rigid tools}
- 33/16 . with special additional arrangements ([A01B 49/00](#) takes precedence; for sowing or fertilising [A01B 49/06](#))

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](#))}

- 35/02 . with non-rotating tools
- 35/04 . . drawn by animal or tractor {or man-power}
- 35/06 . . . with spring tools {or with resiliently- or flexibly-attached rigid tools}
- 35/08 . . . with rigid tools
- 35/10 . . mounted on tractors
- 35/12 . . . with spring tools {or with resiliently- or flexibly-attached rigid tools}
- 35/14 . . . with rigid tools
- 35/16 . with rotating or circulating non-propelled tools
- 35/18 . with both rotating and non-rotating tools
- 35/20 . Tools; Details
- 35/22 . . Non-rotating tools; {Resilient or flexible mounting of rigid tools}
- 35/225 . . . {the tools being adapted to allow the chisel point to be easily fitted or removed from the shank}
- 35/24 . . . Spring tools
- 35/26 . . . Rigid tools
- 35/28 . . Rotating tools; Mounting rotating tools
- 35/30 . . Undercarriages ([A01B 23/04](#) takes precedence)
- 35/32 . with special additional arrangements

37/00 Devices for loosening soil compacted by wheels or the like**39/00 Other machines specially adapted for working soil on which crops are growing**

- 39/02 . with non-rotating tools
- 39/04 . . drawn by animal or tractor
- 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](#))}
- 39/163 . . . {comprising rotating tools}
- 39/166 {actively driven}

- 39/18 . . for weeding
- 39/19 . . . Rod weeders, i.e. weeder with rotary rods propelled beneath the soil surface
- 39/20 . Tools; Details
- 39/22 . . Tools; Mounting tools
- 39/24 . . Undercarriages ([A01B 23/04 takes precedence](#))
- 39/26 . . Arrangements for protecting plants {, e.g. fenders}
- 39/28 . with special additional arrangements ([A01B 49/00 takes precedence](#))
- 41/00 Thinning machines**
- 41/02 . with oscillating tools
- 41/04 . with rotating tools
- 41/06 . with electric, e.g. photo-electric control of thinning operations
- 43/00 Gatherers for removing stones, undesirable roots or the like from the soil, e.g. tractor-drawn rakes {(for harvesting root crops [A01D](#))}**
- 43/005 . {Windrower-type machines}
- 45/00 Machines for treating meadows or lawns {, e.g. for sports grounds}**
- 45/02 . for aerating
- 45/023 . . {Perforators comprising spiking tools actively driven in a reciprocating movement through a crankshaft or eccentric mechanism}
- 45/026 . . {Scarifiers comprising a knife reel actively driven around a substantially horizontal shaft}
- 47/00 Soil-working with electric potential applied between tools and soil**
- 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](#))**
- 49/02 . with two or more soil-working tools of different kind
- 49/022 . . {at least one tool being actively driven}
- 49/025 . . . {about a substantially vertical axis}
- 49/027 . . {with a rotating, soil working support element, e.g. a roller}
- 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](#))}
- 49/06 . . for sowing or fertilising
- 49/065 . . . {the soil-working tools being actively driven}

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](#))

- 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](#))**
- 51/02 . propelled by a motor
- 51/023 . . {of the Gantry-type}
- 51/026 . . {of the automotive vehicle type, e.g. including driver accommodation ([A01B 51/023 takes precedence](#))}
- 51/04 . drawn by animal or tractor
- 51/045 . . {drawn by animals}

- 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](#))**
- 59/002 . {Details, component parts}
- 59/004 . . {Length-adjustable links}
- 59/006 . . {Latched hooks}
- 59/008 . . {Link connectors with spherical surfaces}
- 59/02 . for animal-drawn machines
- 59/04 . for machines pulled or pushed by a tractor
- 59/041 . . preventing or limiting side-play of implements ([preventing overstrain \[A01B 61/00\]\(#\)](#))
- 59/0415 . . . {by hydraulic or pneumatic means acting on the lower draft links}
- 59/042 . . having pulling means arranged on the rear part of the tractor
- 59/043 . . . supported at three points, e.g. by quick-release couplings ([A01B 59/06 takes precedence](#))
- 59/044 . . having pulling means arranged on the middle part of the tractor
- 59/046 . . having pulling or pushing means arranged on the side of the tractor
- 59/048 . . having pulling or pushing means arranged on the front part of the tractor
- 59/06 . for machines mounted on tractors
- 59/061 . . {specially adapted for enabling connection or disconnection controlled from the driver's seat ([not used, see subgroups](#))}
- 59/062 . . . {the connection comprising a rigid interface frame on the tractor}
- 59/063 . . . {the connection comprising longitudinally oriented tang-and-sheath elements}
- 59/064 . . {for connection to the front of the tractor}
- 59/065 . . {for ploughs or like implements ([A01B 59/061 and subgroups take precedence](#))}
- 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)}
- 59/067 . . . {the lower arms being lifted or lowered by power actuator means internally incorporated in the tractor}
- 59/068 . . . {the lower arms being lifted or lowered by power actuator means provided externally on the tractor}
- 59/069 . . {with means for weighing the implement}
- 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 \[F16D\]\(#\)](#))**
- 61/02 . of the coupling devices between tractor and machine
- 61/025 . . {the driving connections}
- 61/04 . of the connection between tools and carrier beam or frame
- 61/042 . . {with shearing devices}
- 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}
- 61/048 {the connection or the energy accumulator being active in two opposite directions, e.g. for reversible plows}

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 <i>per se</i> B66F)	63/26	. . . by man-power
		63/28	. . . operated by the machine or implement
		63/30	. . . operated by motor power through a mechanical transmission
		63/32	. . . operated by hydraulic or pneumatic means {without automatic control}
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)}	67/00	Devices for controlling the tractor motor by resistance of tools (preventing overstrain A01B 61/00)
63/004	. . {Lateral adjustment of tools}	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)
63/006	. . {Lateral adjustment of wheels}		NOTE
63/008	. . {Vertical adjustment of tools (A01B 63/10 takes precedence)}		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
63/02	. for implements mounted on tractors		
63/023	. . {Lateral adjustment of their tools}	69/001	. {Steering by means of optical assistance, e.g. television cameras (steering devices for road marking vehicles E01C 23/163)}
63/026	. . {Lateral adjustment of their wheels}	69/002	. {Steering or guiding on a substantially circular or spiral path}
63/04	. . Hand devices; Hand devices with mechanical accumulators, e.g. springs	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}
63/045	. . . {for vertically adjusting wheels or similar rotary supporting elements}	69/004	. . {automatic}
63/06	. . operated mechanically by tractor motor	69/005	. . {by an additional operator}
63/08	. . operated by the movement of the tractor	69/006	. . {derived from the steering of the tractor}
63/10	. . operated by hydraulic or pneumatic means	69/007	. {Steering or guiding of agricultural vehicles, e.g. steering of the tractor to keep the plough in the furrow}
63/1006	. . . {the hydraulic or pneumatic means structurally belonging to the tractor}	69/008	. . {automatic}
63/1013	. . . . {and being located inside the tractor body}	69/02	. Ridge-marking or like devices; Checkrow wires; Accessories therefor
63/102	. . . characterised by the location of the mounting on the tractor, e.g. on the rear part	69/022	. . {Ridge marking by deposition of a chemical substance, e.g. foam, on the surface of the soil}
63/104	. . . . on the middle part, i.e. between front and rear wheels	69/024	. . {adapted to cut and form a ridge or furrow in the soil surface, e.g. with a disc}
63/106	. . . . on the side	69/026	. . {Checkrow wires}
63/108	. . . . on the front part	69/028	. . . {the wire being located above the ground}
63/11	. . . for controlling weight transfer between implements and tractor wheels	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)}
63/111	. . . regulating working depth of implements		. Setting or adjusting mechanisms
63/1112	. . . . {using a non-tactile ground distance measurement, e.g. using reflection of waves}	71/02	. Bearings of rotating parts, e.g. for soil-working discs ({discs A01B 15/16 , A01B 23/06 }; bearings in general F16C)
63/1115	. . . . {using a mechanical ground contact sensor}	71/04	. Special adaptations of coupling means between power take-off and transmission shaft to the implement or machine (couplings for transmitting rotation F16D)
63/1117	. . . . {using a hitch position sensor}		
63/112	. . . . to control draught load, i.e. tractive force	71/063	. . {for enabling transmission coupling and connection between tractor and implements to be controlled from the driver's seat}
63/114	. . . . to achieve a constant working depth	71/066	. . {for enabling pitch, roll or yaw movements of trailed implements or machines}
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		
63/20	. . . with gear and rack		
63/22	. . . operated by hydraulic or pneumatic means		
63/24	. . Tools or tool-holders adjustable relatively to the frame		
63/245	. . . {laterally adjustable}		

- 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