

# 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:

<a href="#">A01B 69/04</a>	covered by	<a href="#">A01B 69/008</a>
<a href="#">A01B 69/06</a>	covered by	<a href="#">A01B 69/005</a>
<a href="#">A01B 69/08</a>	covered by	<a href="#">A01B 69/006</a>

<b>1/00</b>	<b>Hand tools</b> (edge trimmers for lawns <a href="#">A01G 3/06</a> ; machines for working soil <a href="#">A01B 35/00</a> ; making hand tools <a href="#">B21D</a> )	3/04	. Animal-drawn ploughs
		3/06	. . without alternating possibility, i.e. incapable of making an adjacent furrow on return journey {, i.e. conventional ploughing }
1/02	. Spades; Shovels {(hand-operated dredgers <a href="#">E02F 3/02</a> )}	3/08	. . . Swing ploughs
1/022	. . {Collapsible; extensible; combinations with other tools }	3/10	. . . Trussed-beam ploughs; Single-wheel ploughs
1/024	. . {Foot protectors attached to the blade }	3/12	. . . Two-wheel beam ploughs
1/026	. . {with auxiliary handles for facilitating lifting }	3/14	. . . Frame ploughs
1/028	. . {with ground abutment shoes or earth anchors for facilitating lifting }	3/16	. . Alternating ploughs, i.e. capable of making an adjacent furrow on return journey
1/04	. . with teeth	3/18	. . . Turn-wrest ploughs
1/06	. Hoes; Hand cultivators {(rakes <a href="#">A01D 7/00</a> ; forks <a href="#">A01D 9/00</a> ; picks <a href="#">B25D</a> )}	3/20	. . . Balance ploughs
		3/22	. . . with parallel plough units used alternately
1/065	. . {powered }	3/24	. Tractor-drawn ploughs ( <a href="#">A01B 3/04</a> takes precedence)
1/08	. . with a single blade	3/26	. . without alternating possibility
1/10	. . with two or more blades	3/28	. . Alternating ploughs
1/12	. . with blades provided with teeth	3/30	. . . Turn-wrest ploughs
1/14	. . with teeth only	3/32	. . . Balance ploughs
1/16	. Tools for uprooting weeds	3/34	. . . with parallel plough units used alternately
1/165	. . {adapted for extracting a substantially cylindrical plug out of the earth }	3/36	. Ploughs mounted on tractors
		3/38	. . without alternating possibility
1/18	. . Tong-like tools	3/40	. . Alternating ploughs
1/20	. Combinations of different kinds of hand tools	3/42	. . . Turn-wrest ploughs
1/22	. Attaching the blades or the like to handles (handles for tools, or their attachment, in general <a href="#">B25G</a> ); Interchangeable or adjustable blades	3/421	. . . . with a headstock frame made in one piece
		3/4215	. . . . . {the headstock being provided with two or more hydraulic cylinders }
1/222	. . {Adjustable blades }	3/426	. . . . with a headstock frame made of two or more parts
1/225	. . . {around a substantially horizontal axis }		
1/227	. . {Interchangeable blades }	3/44	. . . with parallel plough units used alternately
1/24	. for treating meadows or lawns	3/46	. Ploughs supported partly by tractor and partly by their own wheels
1/243	. . {for aerating }		
1/246	. . {for cutting sods or turves }	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 }
<b>3/00</b>	<b>Ploughs with fixed plough-shares</b>	3/466	. . . {the frame comprising an articulated beam }
3/02	. Man-driven ploughs	3/468	. . {the plough wheels being actively driven }

##### Ploughs

- 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
- 23/04 . Frames (means or arrangements to facilitate transportation [A01B 73/00](#)); Drawing-arrangements

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 ( <a href="#">A01B 15/16</a> takes precedence; bearings therefor <a href="#">A01B 71/04</a> ); Scrapers for cleaning discs; Sharpening attachments; {Lubrication of bearings} ( <a href="#">sharpening in general B24</a> )	33/125	. . . {screening of tools rotating about a vertical shaft}
<b>25/00</b>	<b>Harrows with special additional arrangements, e.g. means for distributing fertilisers; Harrows for special purposes</b> ( <a href="#">A01B 39/00</a> takes precedence {; fertiliser distributors <a href="#">A01C 15/00</a> })	33/14	. . Attaching the tools to the rotating shaft, e.g. resiliently {or flexibly}-attached tools
<b>Other machines for working soil</b>		33/142	. . . {the rotating shaft being oriented horizontally}
<b>27/00</b>	<b>Clod-crushers</b>	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}
<b>29/00</b>	<b>Rollers</b> {(rollers for roads <a href="#">E01C</a> )}	33/148	. . . . {with spring tools or resiliently-attached rigid tools}
29/02	. with smooth surface	33/16	. with special additional arrangements ( <a href="#">A01B 49/00</a> takes precedence; for sowing or fertilising <a href="#">A01B 49/06</a> )
29/04	. with non-smooth surface formed of rotatably-mounted rings or discs or with projections or ribs on the roller body; Land packers	<b>35/00</b>	<b>Other machines for working soil {not specially adapted for working soil on which crops are growing}</b> ( <a href="#">A01B 37/00</a> , <a href="#">A01B 39/00</a> , <a href="#">A01B 77/00</a> take precedence {; hand tools <a href="#">A01B 1/00</a> })
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}
<b>31/00</b>	<b>Drags</b> {graders for field cultivators (graders in general <a href="#">E02F</a> )}	35/14	. . . with rigid tools
<b>33/00</b>	<b>Tilling implements with rotary driven tools</b> {, 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 <a href="#">B62D 51/04</a> )}	35/28	. . Rotating tools; Mounting rotating tools
33/04	. with tools on horizontal shaft parallel to direction of travel	35/30	. . Undercarriages ( <a href="#">A01B 23/04</a> 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}	<b>37/00</b>	<b>Devices for loosening soil compacted by wheels or the like</b>
33/08	. Tools; Details, e.g. adaptations of transmissions or gearings	<b>39/00</b>	<b>Other machines specially adapted for working soil on which crops are growing</b>
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
33/10	. . Structural or functional features of the tools {; Theoretical aspects of the cutting action}	39/08	. with rotating tools {such as weeding machines}
33/103	. . . {the rotating shaft being oriented horizontally}	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 <a href="#">A01B 13/06</a> )}
		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 ( <a href="#">A01B 23/04</a> takes precedence)		
39/26	. . Arrangements for protecting plants {, e.g. fenders}		
39/28	. with special additional arrangements ( <a href="#">A01B 49/00</a> takes precedence)		
<b>41/00</b>	<b>Thinning machines</b>		
41/02	. with oscillating tools		
41/04	. with rotating tools		
41/06	. with electric, e.g. photo-electric control of thinning operations		
<b>43/00</b>	<b>Gatherers for removing stones, undesirable roots or the like from the soil, e.g. tractor-drawn rakes {(for harvesting root crops <a href="#">A01D</a>)}</b>		
43/005	. {Windrower-type machines}		
<b>45/00</b>	<b>Machines for treating meadows or lawns {, e.g. for sports grounds}</b>		
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}		
<b>47/00</b>	<b>Soil-working with electric potential applied between tools and soil</b>		
<b>49/00</b>	<b>Combined machines (auxiliary devices attached to machines of a different kind, e.g. harrows attached to ploughs, see the relevant groups for the machines)</b>		
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 <a href="#">A01C 7/00</a> ; harvesters combined with soil-working implements <a href="#">A01D 43/12</a> )}		
49/06	. . for sowing or fertilising		
49/065	. . . {the soil-working tools being actively driven}		
<b>Parts, details or accessories of agricultural machines or implements, in general (seat constructions <a href="#">A47C</a>; wheels <a href="#">B60B</a>; shelters for drivers <a href="#">B60J</a>; seats specially adapted for vehicles <a href="#">B60N 2/00</a>; wheel scrapers <a href="#">B60S 1/68</a>)</b>			
<b>51/00</b>	<b>Undercarriages specially adapted for mounting-on various kinds of agricultural tools or apparatus (general vehicle aspects, see the relevant subclass of class <a href="#">B60</a> or <a href="#">B62</a>)</b>		
51/02	. propelled by a motor		
51/023	. . {of the Gantry-type}		
51/026	. . {of the automotive vehicle type, e.g. including driver accommodation ( <a href="#">A01B 51/023</a> takes precedence)}		
51/04	. drawn by animal or tractor		
51/045	. . {drawn by animals}		
<b>59/00</b>	<b>Devices specially adapted for connection between animals or tractors and agricultural machines or implements (<a href="#">A01B 63/00</a> takes precedence; vehicle connections in general <a href="#">B60D</a>; draught assemblies for animal drawn vehicles, in general <a href="#">B62C 5/00</a>)</b>		
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 ( <a href="#">preventing overstrain <a href="#">A01B 61/00</a></a> )		
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 ( <a href="#">A01B 59/06</a> 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 ( <a href="#">not used, see subgroups</a> )}		
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 ( <a href="#">A01B 59/061</a> 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}		
<b>61/00</b>	<b>Devices for, or parts of, agricultural machines or implements for preventing overstrain (preventing overstrain in vehicle connections, in general <a href="#">B60D</a>; preventing overstrain in couplings per se <a href="#">F16D</a>)</b>		
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}		

<p><b>63/00</b>    <b>Lifting or adjusting devices or arrangements for agricultural machines or implements</b> (lifting mechanisms for the cutter-bar of a mower <a href="#">A01D 34/24</a>; adjusting devices for the cutter-bar of a mower <a href="#">A01D 34/28</a>; constructional features of lifting devices <a href="#">per se B66F</a>)</p> <p>63/002    . . {Devices for adjusting or regulating the position of tools or wheels (preventing overstrain <a href="#">A01B 61/00</a>; wheels adjustable relatively to the frame for drawn implements <a href="#">A01B 3/16</a>; tools or tool holders adjustable relatively to the frame for drawn implements <a href="#">A01B 63/24</a>)}</p> <p>63/004    . . {Lateral adjustment of tools}</p> <p>63/006    . . {Lateral adjustment of wheels}</p> <p>63/008    . . {Vertical adjustment of tools (<a href="#">A01B 63/10</a> takes precedence)}</p> <p>63/02     . . for implements mounted on tractors</p> <p>63/023    . . {Lateral adjustment of their tools}</p> <p>63/026    . . {Lateral adjustment of their wheels}</p> <p>63/04     . . Hand devices; Hand devices with mechanical accumulators, e.g. springs</p> <p>63/045    . . . {for vertically adjusting wheels or similar rotary supporting elements}</p> <p>63/06     . . operated mechanically by tractor motor</p> <p>63/08     . . operated by the movement of the tractor</p> <p>63/10     . . operated by hydraulic or pneumatic means</p> <p>63/1006   . . . {the hydraulic or pneumatic means structurally belonging to the tractor}</p> <p>63/1013   . . . . {and being located inside the tractor body}</p> <p>63/102    . . . characterised by the location of the mounting on the tractor, e.g. on the rear part</p> <p>63/104    . . . . on the middle part, i.e. between front and rear wheels</p> <p>63/106    . . . . on the side</p> <p>63/108    . . . . on the front part</p> <p>63/11     . . . for controlling weight transfer between implements and tractor wheels</p> <p>63/111    . . . regulating working depth of implements</p> <p>63/1112   . . . . {using a non-tactile ground distance measurement, e.g. using reflection of waves}</p> <p>63/1115   . . . . {using a mechanical ground contact sensor}</p> <p>63/1117   . . . . {using a hitch position sensor}</p> <p>63/112    . . . . to control draught load, i.e. tractive force</p> <p>63/114    . . . . to achieve a constant working depth</p> <p>63/1145   . . . . . {for controlling weight transfer between implements and tractor wheels}</p> <p>63/118    . . . Mounting implements on power-lift linkages (<a href="#">A01B 59/043</a> takes precedence; preventing or limiting side-play of implements <a href="#">A01B 59/041</a>; preventing overstrain <a href="#">A01B 61/00</a>)</p> <p>63/12     . . operated by an electric motor</p> <p>63/14     . . for implements drawn by animals or tractors</p> <p>63/145    . . {for controlling weight transfer between implements and tractor wheels}</p> <p>63/16     . . with wheels adjustable relatively to the frame</p> <p>63/163    . . . {laterally adjustable}</p> <p>63/166    . . . {manually adjustable}</p> <p>63/18     . . . with clutch between Z-type axle and wheel</p> <p>63/20     . . . with gear and rack</p> <p>63/22     . . . operated by hydraulic or pneumatic means</p> <p>63/24     . . Tools or tool-holders adjustable relatively to the frame</p> <p>63/245    . . . {laterally adjustable}</p>	<p>63/26     . . . by man-power</p> <p>63/28     . . . operated by the machine or implement</p> <p>63/30     . . . operated by motor power through a mechanical transmission</p> <p>63/32     . . . operated by hydraulic or pneumatic means {without automatic control}</p> <p><b>67/00</b>    <b>Devices for controlling the tractor motor by resistance of tools</b> (preventing overstrain <a href="#">A01B 61/00</a>)</p> <p><b>69/00</b>    <b>Steering of agricultural machines or implements; Guiding agricultural machines or implements on a desired track</b> (vehicle course control in general <a href="#">G05D 1/02</a>)</p> <p><b>NOTE</b></p> <p>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</p> <p>69/001    . {Steering by means of optical assistance, e.g. television cameras (steering devices for road marking vehicles <a href="#">E01C 23/163</a>)}</p> <p>69/002    . {Steering or guiding on a substantially circular or spiral path}</p> <p>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}</p> <p>69/004    . . {automatic}</p> <p>69/005    . . {by an additional operator}</p> <p>69/006    . . {derived from the steering of the tractor}</p> <p>69/007    . {Steering or guiding of agricultural vehicles, e.g. steering of the tractor to keep the plough in the furrow}</p> <p>69/008    . . {automatic}</p> <p>69/02     . Ridge-marking or like devices; Checkrow wires; Accessories therefor</p> <p>69/022    . . {Ridge marking by deposition of a chemical substance, e.g. foam, on the surface of the soil}</p> <p>69/024    . . {adapted to cut and form a ridge or furrow in the soil surface, e.g. with a disc}</p> <p>69/026    . . {Checkrow wires}</p> <p>69/028    . . . {the wire being located above the ground}</p> <p><b>71/00</b>    <b>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</b> ({adjusting mechanisms in general <a href="#">G05G</a>})</p> <p>71/02     . Setting or adjusting mechanisms</p> <p>71/04     . Bearings of rotating parts, e.g. for soil-working discs ({discs <a href="#">A01B 15/16</a>, <a href="#">A01B 23/06</a>}; bearings in general <a href="#">F16C</a>)</p> <p>71/06     . Special adaptations of coupling means between power take-off and transmission shaft to the implement or machine (couplings for transmitting rotation <a href="#">F16D</a>)</p> <p>71/063    . . {for enabling transmission coupling and connection between tractor and implements to be controlled from the driver's seat}</p> <p>71/066    . . {for enabling pitch, roll or yaw movements of trailed implements or machines}</p>
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- 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 [A01D 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