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 <u>A01C 5/00</u>; soil working for engineering purposes <u>E01</u>, <u>E02</u>, <u>E21</u>; {measuring areas for agricultural purposes <u>G01B</u>})

WARNINGS

1. 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

2. 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 {;	Ploughs	
	machines for working soil A01B 35/00; making hand	Ü	
	tools <u>B21D</u> })	3/00	Ploughs with fixed plough-shares
1/02	Spades; Shovels {(hand-operated dredgers)	3/02	. Man-driven ploughs
	E02F 3/02)}	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 {,
1/024	• {Foot protectors attached to the blade}	2/09	i.e. conventional ploughing}
1/026	• • {with auxiliary handles for facilitating lifting}	3/08	Swing ploughs
1/028	• • {with ground abutment shoes or earth anchors for	3/10	Trussed-beam ploughs; Single-wheel ploughs
	facilitating lifting}	3/12	Two-wheel beam ploughs
1/04	• • with teeth	3/14	Frame ploughs
1/06	 Hoes; Hand cultivators {(rakes <u>A01D 7/00</u>; forks <u>A01D 9/00</u>; picks <u>B25D</u>)} 	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
1/14	• • with teeth only		precedence)
1/16	Tools for uprooting weeds	3/26	 without alternating possibility
1/165	• • {adapted for extracting a substantially cylindrical	3/28	Alternating ploughs
	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	3/36	 Ploughs mounted on tractors
	for tools, or their attachment, in general <u>B25G</u>);	3/38	 without alternating possibility
	Interchangeable or adjustable blades	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 1/24	• {Interchangeable blades}• 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
1/246	• (for actually)• (for cutting sods or turves)		parts
1/2-10	• • (101 Catting Bods of turves)	3/44	with parallel plough units used alternately
		3/46	. Ploughs supported partly by tractor and partly by

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their own wheels

Ploughs A01B

3/462	• • {Alternating ploughs with frame rotating about a	13/08	• for working subsoil
2/161	vertical axis} • • {Alternating ploughs with frame rotating about a	13/10	Special implements for lifting subsoil layers
3/464	horizontal axis, e.g. turn-wrest ploughs}	13/12	• • • Means for distributing the layers on the surface
3/466	• • • {the frame comprising an articulated beam}	13/14 13/16	 for working soil in two or more layers Machines for combating erosion, e.g. basin-diggers,
3/468	• • {the plough wheels being actively driven}	13/10	furrow-dammers
3/50	Self-propelled ploughs		runow-dammers
3/52	 with three or more wheels, or endless tracks 	15/00	Elements, tools, or details of ploughs
3/54	with three of more wheels, or charess tracks without alternating possibility	15/02	 Plough blades; Fixing the blades
3/56	Alternating ploughs {; Balance ploughs}	15/025	 {specially adapted for working subsoil}
3/58	• with two wheels	15/04	• • Shares {(making ploughshares by rolling <u>B21H</u>)}
3/60	Alternating ploughs	15/06	Interchangeable or adjustable shares
3/62	Balance ploughs	15/08	Mouldboards
3/64	• Cable ploughs; Indicating or signalling devices for	15/10	Interchangeable or adjustable mouldboards
	cable plough systems {(vehicles towed by cable B60D)}	15/12	Beams; Handles (handles for tools or their attachment in general <u>B25G</u>)
3/66	with motor-driven winding apparatus mounted on	15/125	• • {Articulated beams}
	the plough	15/14	• Frames (means or arrangements to facilitate
3/68	• Cable systems with one or two engines {; e.g. electrically-driven or with diesel generating set}	15/145	 transportation <u>A01B 73/00</u>) • {the plough blades being connected to the plough beam for unisono adjustment of the furrow
3/70	Systems with one engine for working uphill		width}
3/72	Means for anchoring the cables	15/16	• Discs (bearings therefor A01B 71/04); Scrapers for
3/74	• Use of electric power for propelling ploughs	10,10	cleaning discs; Sharpening attachments (sharpening
	{for rotary cultivators or the like (electric current		in general <u>B24</u>)
	collectors <u>B60L 5/00</u>)}	15/18	. Coulters
5/00	Ploughs with rolling non-driven tools, e.g. discs	15/20	• Special adjusting means for tools of ploughs drawn
5/02	(with rotary driven tools <u>A01B 9/00</u>)		by, or mounted on tractors working on hillsides or
5/02 5/04	drawn by animalsdrawn by tractors		slopes
5/04	 without alternating possibility {, e.g. with rotary 	17/00	Ploughs with special additional arrangements, e.g.
5/08	counters provided with scrapers \\ . Alternating ploughs		means for putting manure under the soil, clod- crushers (A01B 49/00 takes precedence); {Means
			for breaking the subsoil}
5/10	mounted or partly-mounted on tractors		
5/10 5/12	mounted or partly-mounted on tractors without alternating possibility	17/002	• {Means for putting manure, debris, straw or the like
5/12	• • without alternating possibility		• {Means for putting manure, debris, straw or the like under the soil (to plough-in weeds <u>A01B 39/18</u>)}
5/12 5/14	without alternating possibilityAlternating ploughs	17/004	 {Means for putting manure, debris, straw or the like under the soil (to plough-in weeds <u>A01B 39/18</u>)} {Clod-crushers}
5/12 5/14 5/16	without alternating possibilityAlternating ploughsSelf-propelled disc or like ploughs	17/004 17/006	 {Means for putting manure, debris, straw or the like under the soil (to plough-in weeds <u>A01B 39/18</u>)} {Clod-crushers} {with driven tools}
5/12 5/14	without alternating possibilityAlternating ploughs	17/004	 {Means for putting manure, debris, straw or the like under the soil (to plough-in weeds <u>A01B 39/18</u>)} {Clod-crushers}
5/12 5/14 5/16	 without alternating possibility Alternating ploughs Self-propelled disc or like ploughs Disc-like soil-working implements usable either as ploughs or as harrows, or the like Ploughs with rotary driven tools (tilling implements)	17/004 17/006	 {Means for putting manure, debris, straw or the like under the soil (to plough-in weeds <u>A01B 39/18</u>)} {Clod-crushers} {with driven tools} {rotating about a vertical or steeply inclined
5/12 5/14 5/16 7/00 9/00	 without alternating possibility Alternating ploughs Self-propelled disc or like ploughs Disc-like soil-working implements usable either as ploughs or as harrows, or the like Ploughs with rotary driven tools (tilling implements with rotary driven tools A01B 33/00) 	17/004 17/006 17/008	 {Means for putting manure, debris, straw or the like under the soil (to plough-in weeds <u>A01B 39/18</u>)} {Clod-crushers} • {with driven tools} • {rotating about a vertical or steeply inclined axis}
5/12 5/14 5/16 7/00	 without alternating possibility Alternating ploughs Self-propelled disc or like ploughs Disc-like soil-working implements usable either as ploughs or as harrows, or the like Ploughs with rotary driven tools (tilling implements with rotary driven tools <u>A01B 33/00</u>) with tools on horizontal shaft transverse to 	17/004 17/006 17/008 Harrows	 {Means for putting manure, debris, straw or the like under the soil (to plough-in weeds <u>A01B 39/18</u>)} {Clod-crushers} {with driven tools} {rotating about a vertical or steeply inclined
5/12 5/14 5/16 7/00 9/00	 without alternating possibility Alternating ploughs Self-propelled disc or like ploughs Disc-like soil-working implements usable either as ploughs or as harrows, or the like Ploughs with rotary driven tools (tilling implements with rotary driven tools A01B 33/00) {with tools on horizontal shaft transverse to direction of travel} {with tools on horizontal shaft parallel to direction 	17/004 17/006 17/008 Harrows	 {Means for putting manure, debris, straw or the like under the soil (to plough-in weeds <u>A01B 39/18</u>)} {Clod-crushers} {with driven tools} {rotating about a vertical or steeply inclined axis} Harrows with non-rotating tools {(harrows for
5/12 5/14 5/16 7/00 9/00 9/003	 without alternating possibility Alternating ploughs Self-propelled disc or like ploughs Disc-like soil-working implements usable either as ploughs or as harrows, or the like Ploughs with rotary driven tools (tilling implements with rotary driven tools A01B 33/00) {with tools on horizontal shaft transverse to direction of travel} 	17/004 17/006 17/008 Harrows 19/00	 {Means for putting manure, debris, straw or the like under the soil (to plough-in weeds A01B 39/18)} {Clod-crushers} {with driven tools} {rotating about a vertical or steeply inclined axis} Harrows with non-rotating tools {(harrows for working in vineyards A01B 39/16)} with tools rigidly or elastically attached to a tool-frame
5/12 5/14 5/16 7/00 9/00 9/003	 without alternating possibility Alternating ploughs Self-propelled disc or like ploughs Disc-like soil-working implements usable either as ploughs or as harrows, or the like Ploughs with rotary driven tools (tilling implements with rotary driven tools A01B 33/00) {with tools on horizontal shaft transverse to direction of travel} {with tools on horizontal shaft parallel to direction 	17/004 17/006 17/008 Harrows 19/00	 {Means for putting manure, debris, straw or the like under the soil (to plough-in weeds A01B 39/18)} {Clod-crushers} {with driven tools} {rotating about a vertical or steeply inclined axis} Harrows with non-rotating tools {(harrows for working in vineyards A01B 39/16)} with tools rigidly or elastically attached to a tool-
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5/12 5/14 5/16 7/00 9/00 9/003 9/006	 without alternating possibility Alternating ploughs Self-propelled disc or like ploughs Disc-like soil-working implements usable either as ploughs or as harrows, or the like Ploughs with rotary driven tools (tilling implements with rotary driven tools A01B 33/00) {with tools on horizontal shaft transverse to direction of travel} {with tools on horizontal shaft parallel to direction of travel} Ploughs with oscillating, digging or piercing tools {driven or not} Ploughs or like machines for special purposes 	17/004 17/006 17/008 Harrows 19/00 19/02 19/04 19/06	 {Means for putting manure, debris, straw or the like under the soil (to plough-in weeds A01B 39/18)} {Clod-crushers} {with driven tools} {rotating about a vertical or steeply inclined axis} Harrows with non-rotating tools {(harrows for working in vineyards A01B 39/16)} with tools rigidly or elastically attached to a tool-frame with two or more tool-frames with tools or tool-frames moved to-and-fro mechanically
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5/12 5/14 5/16 7/00 9/00 9/003 9/006 11/00	 without alternating possibility Alternating ploughs Self-propelled disc or like ploughs Disc-like soil-working implements usable either as ploughs or as harrows, or the like Ploughs with rotary driven tools (tilling implements with rotary driven tools A01B 33/00) {with tools on horizontal shaft transverse to direction of travel} {with tools on horizontal shaft parallel to direction of travel} Ploughs with oscillating, digging or piercing tools {driven or not} 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 	17/004 17/006 17/008 Harrows 19/00 19/02 19/04 19/06 19/08 19/10	 {Means for putting manure, debris, straw or the like under the soil (to plough-in weeds A01B 39/18)} {Clod-crushers} • {with driven tools} • • {rotating about a vertical or steeply inclined axis} Harrows with non-rotating tools {(harrows for working in vineyards A01B 39/16)} • with tools rigidly or elastically attached to a tool-frame • with two or more tool-frames • with tools or tool-frames moved to-and-fro mechanically • with link network supporting tooth-like tools • Lifting or cleaning apparatus
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5/12 5/14 5/16 7/00 9/00 9/003 9/006 11/00 13/00	 without alternating possibility Alternating ploughs Self-propelled disc or like ploughs Disc-like soil-working implements usable either as ploughs or as harrows, or the like Ploughs with rotary driven tools (tilling implements with rotary driven tools A01B 33/00) {with tools on horizontal shaft transverse to direction of travel} {with tools on horizontal shaft parallel to direction of travel} Ploughs with oscillating, digging or piercing tools {driven or not} 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)} for making or working ridges, e.g. with symmetrically arranged mouldboards {, e.g. ridging plough} 	17/004 17/006 17/008 Harrows 19/00 19/02 19/04 19/06 19/08 19/10 21/00 21/02 21/04	 {Means for putting manure, debris, straw or the like under the soil (to plough-in weeds A01B 39/18)} {Clod-crushers} {with driven tools} {rotating about a vertical or steeply inclined axis} Harrows with non-rotating tools {(harrows for working in vineyards A01B 39/16)} with tools rigidly or elastically attached to a tool-frame with two or more tool-frames with tools or tool-frames moved to-and-fro mechanically with link network supporting tooth-like tools Lifting or cleaning apparatus Harrows with rotary non-driven tools (tilling implements with rotary driven tools A01B 33/00) with tooth-like tools on horizontally-arranged axles on vertically-arranged axles
5/12 5/14 5/16 7/00 9/00 9/003 9/006 11/00 13/00	 without alternating possibility Alternating ploughs Self-propelled disc or like ploughs Disc-like soil-working implements usable either as ploughs or as harrows, or the like Ploughs with rotary driven tools (tilling implements with rotary driven tools A01B 33/00) {with tools on horizontal shaft transverse to direction of travel} {with tools on horizontal shaft parallel to direction of travel} Ploughs with oscillating, digging or piercing tools {driven or not} 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)} for making or working ridges, e.g. with symmetrically arranged mouldboards {, e.g. ridging plough} {with passively driven rotating disc-like elements 	17/004 17/006 17/008 Harrows 19/00 19/02 19/04 19/06 19/08 19/10 21/00 21/02 21/04 21/06 21/08	 {Means for putting manure, debris, straw or the like under the soil (to plough-in weeds A01B 39/18)} {Clod-crushers} {with driven tools} {rotating about a vertical or steeply inclined axis} Harrows with non-rotating tools {(harrows for working in vineyards A01B 39/16)} with tools rigidly or elastically attached to a tool-frame with two or more tool-frames with tools or tool-frames moved to-and-fro mechanically with link network supporting tooth-like tools Lifting or cleaning apparatus Harrows with rotary non-driven tools (tilling implements with rotary driven tools A01B 33/00) with tooth-like tools on horizontally-arranged axles in on vertically-arranged axles with disc-like tools {of the type comprising four individual disk groups each pivotally connected at fixed locations
5/12 5/14 5/16 7/00 9/00 9/003 9/006 11/00 13/00	 without alternating possibility Alternating ploughs Self-propelled disc or like ploughs Disc-like soil-working implements usable either as ploughs or as harrows, or the like Ploughs with rotary driven tools (tilling implements with rotary driven tools A01B 33/00) {with tools on horizontal shaft transverse to direction of travel} {with tools on horizontal shaft parallel to direction of travel} Ploughs with oscillating, digging or piercing tools {driven or not} 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)} for making or working ridges, e.g. with symmetrically arranged mouldboards {, e.g. ridging plough} {with passively driven rotating disc-like elements for forming the ridge} 	17/004 17/006 17/008 Harrows 19/00 19/02 19/04 19/06 19/08 19/10 21/00 21/02 21/04 21/06 21/08 21/083	 {Means for putting manure, debris, straw or the like under the soil (to plough-in weeds A01B 39/18)} {Clod-crushers} {with driven tools} {rotating about a vertical or steeply inclined axis} Harrows with non-rotating tools {(harrows for working in vineyards A01B 39/16)} with tools rigidly or elastically attached to a tool-frame with two or more tool-frames with tools or tool-frames moved to-and-fro mechanically with link network supporting tooth-like tools Lifting or cleaning apparatus Harrows with rotary non-driven tools (tilling implements with rotary driven tools A01B 33/00) with tooth-like tools on horizontally-arranged axles on vertically-arranged axles with disc-like tools {of the type comprising four individual disk groups each pivotally connected at fixed locations to a substantially rigid frame}
5/12 5/14 5/16 7/00 9/00 9/003 9/006 11/00 13/00	 without alternating possibility Alternating ploughs Self-propelled disc or like ploughs Disc-like soil-working implements usable either as ploughs or as harrows, or the like Ploughs with rotary driven tools (tilling implements with rotary driven tools A01B 33/00) {with tools on horizontal shaft transverse to direction of travel} {with tools on horizontal shaft parallel to direction of travel} Ploughs with oscillating, digging or piercing tools {driven or not} 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)} for making or working ridges, e.g. with symmetrically arranged mouldboards {, e.g. ridging plough} {with passively driven rotating disc-like elements 	17/004 17/006 17/008 Harrows 19/00 19/02 19/04 19/06 19/08 19/10 21/00 21/02 21/04 21/06 21/08	 {Means for putting manure, debris, straw or the like under the soil (to plough-in weeds A01B 39/18)} {Clod-crushers} {with driven tools} {rotating about a vertical or steeply inclined axis} Harrows with non-rotating tools {(harrows for working in vineyards A01B 39/16)} with tools rigidly or elastically attached to a tool-frame with two or more tool-frames with tools or tool-frames moved to-and-fro mechanically with link network supporting tooth-like tools Lifting or cleaning apparatus Harrows with rotary non-driven tools (tilling implements with rotary driven tools A01B 33/00) with tooth-like tools on horizontally-arranged axles on vertically-arranged axles with disc-like tools {of the type comprising four individual disk groups each pivotally connected at fixed locations to a substantially rigid frame} {of the type in which the disc-like tools are
5/12 5/14 5/16 7/00 9/00 9/003 9/006 11/00 13/00	 without alternating possibility Alternating ploughs Self-propelled disc or like ploughs Disc-like soil-working implements usable either as ploughs or as harrows, or the like Ploughs with rotary driven tools (tilling implements with rotary driven tools A01B 33/00) {with tools on horizontal shaft transverse to direction of travel} {with tools on horizontal shaft parallel to direction of travel} Ploughs with oscillating, digging or piercing tools {driven or not} 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)} for making or working ridges, e.g. with symmetrically arranged mouldboards {, e.g. ridging plough} {with passively driven rotating disc-like elements for forming the ridge} for working in vineyards, orchards, or the like Arrangements for preventing damage to the vines, or the like {, e.g. hydraulic (machines specially 	17/004 17/006 17/008 Harrows 19/00 19/02 19/04 19/06 19/08 19/10 21/00 21/02 21/04 21/06 21/08 21/083	 {Means for putting manure, debris, straw or the like under the soil (to plough-in weeds A01B 39/18)} {Clod-crushers} {with driven tools} {rotating about a vertical or steeply inclined axis} Harrows with non-rotating tools {(harrows for working in vineyards A01B 39/16)} with tools rigidly or elastically attached to a tool-frame with two or more tool-frames with tools or tool-frames moved to-and-fro mechanically with link network supporting tooth-like tools Lifting or cleaning apparatus Harrows with rotary non-driven tools (tilling implements with rotary driven tools A01B 33/00) with tooth-like tools on horizontally-arranged axles on vertically-arranged axles with disc-like tools {of the type comprising four individual disk groups each pivotally connected at fixed locations to a substantially rigid frame}
5/12 5/14 5/16 7/00 9/00 9/003 9/006 11/00 13/00	 without alternating possibility Alternating ploughs Self-propelled disc or like ploughs Disc-like soil-working implements usable either as ploughs or as harrows, or the like Ploughs with rotary driven tools (tilling implements with rotary driven tools A01B 33/00) {with tools on horizontal shaft transverse to direction of travel} {with tools on horizontal shaft parallel to direction of travel} Ploughs with oscillating, digging or piercing tools {driven or not} 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)} for making or working ridges, e.g. with symmetrically arranged mouldboards {, e.g. ridging plough} {with passively driven rotating disc-like elements for forming the ridge} for working in vineyards, orchards, or the like Arrangements for preventing damage to the vines, 	17/004 17/006 17/008 Harrows 19/00 19/02 19/04 19/06 19/08 19/10 21/00 21/02 21/04 21/06 21/08 21/083	 {Means for putting manure, debris, straw or the like under the soil (to plough-in weeds A01B 39/18)} {Clod-crushers} {with driven tools} {rotating about a vertical or steeply inclined axis} Harrows with non-rotating tools {(harrows for working in vineyards A01B 39/16)} with tools rigidly or elastically attached to a tool-frame with two or more tool-frames with tools or tool-frames moved to-and-fro mechanically with link network supporting tooth-like tools Lifting or cleaning apparatus Harrows with rotary non-driven tools (tilling implements with rotary driven tools A01B 33/00) with tooth-like tools on horizontally-arranged axles on vertically-arranged axles with disc-like tools {of the type comprising four individual disk groups each pivotally connected at fixed locations to a substantially rigid frame} {of the type in which the disc-like tools are

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Harrows A01B

23/02	• Teeth; Fixing the teeth	33/10	• • Structural or functional features of the tools {;
23/04	• Frames (means or arrangements to facilitate		Theoretical aspects of the cutting action}
	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	33/12	• • Arrangement of the tools; Screening of the tools
	tools}	33/125	• • • {screening of tools rotating about a vertical
23/06	• Discs (A01B 15/16 takes precedence; bearings		shaft}
	therefor A01B 71/04); Scrapers for cleaning	33/14	. Attaching the tools to the rotating shaft, e.g.
	discs; Sharpening attachments; {Lubrication of bearings}(sharpening in general <u>B24</u>)	22/1/2	resiliently {or flexibly}-attached tools
	bearings (snarpening in general <u>B24</u>)	33/142	• • • {the rotating shaft being oriented horizontally}
25/00	Harrows with special additional arrangements,	33/144	 • • { with spring tools or resiliently-attached rigid tools}
	e.g. means for distributing fertilisers; Harrows for	33/146	• • • {the rotating shaft being oriented vertically or
	special purposes (A01B 39/00 takes precedence {; fertiliser distributors A01C 15/00})	33/140	steeply inclined}
	returnser distributors <u>AOTC 15/00</u> })	33/148	• • • • { with spring tools or resiliently-attached
Other machi	ines for working soil		rigid tools}
	_	33/16	• with special additional arrangements (A01B 49/00
27/00	Clod-crushers		takes precedence; for sowing or fertilising
27/005	 {comprising roller-type tools moving on the ground} 		<u>A01B 49/06</u>)
	ground}	35/00	Other machines for working soil {not specially
29/00	Rollers {(rollers for roads <u>E01C</u>)}		adapted for working soil on which crops are
29/02	 with smooth surface 		growing}(A01B 37/00, A01B 39/00, A01B 77/00
29/04	 with non-smooth surface formed of rotatably- 		take precedence {; hand tools <u>A01B 1/00</u> })
	mounted rings or discs or with projections or ribs on	35/02	 with non-rotating tools
20/041	the roller body; Land packers	35/04	• • drawn by animal or tractor {or man-power}
29/041	 • {of "Cambridge"-type, i.e. the soil-pressing rings being stacked on a shaft} 	35/06	• • • with spring tools {or with resiliently- or
29/043	{Tire-packers}	25/00	flexibly-attached rigid tools}
29/045	. { The-packers}. {the soil-pressing body being a drum}	35/08	• • with rigid tools
29/046	 the soil-pressing body being a detail? {the soil-pressing body being a helical coil} 	35/10	• mounted on tractors
29/048	(the soft pressing body being a nenear con) (Bar cage rollers)	35/12	 with spring tools {or with resiliently-or flexibly-attached rigid tools}
29/06	with special additional arrangements	35/14	• • • with rigid tools
		35/14	 with rigid tools with rotating or circulating non-propelled tools
31/00	Drags (graders for field cultivators (graders in	35/18	with both rotating and non-rotating tools
	general E02F)}	35/20	• Tools; Details
33/00	Tilling implements with rotary driven tools {,	35/22	Non-rotating tools; {Resilient or flexible}
	e.g. in combination with fertiliser distributors or		mounting of rigid tools}
	seeders, with grubbing chains, with sloping axles,	35/225	• • • {the tools being adapted to allow the chisel
22/02	with driven discs}		point to be easily fitted or removed from the
33/02	 with tools on horizontal shaft transverse to direction of travel 		shank}
33/021	• • {with rigid tools}	35/24	Spring tools
33/021	. { with right tools } { with helicoidal tools }	35/26	Rigid tools
33/024	• • { with fictional tools } • • • { with disk-like tools }	35/28	. Rotating tools; Mounting rotating tools
33/025	• • {with spring tools, i.e. resiliently- or flexibly-	35/30 35/32	 Undercarriages (A01B 23/04 takes precedence) with special additional arrangements
33,023	attached rigid tools}	33/32	• with special additional arrangements
33/027	• • {Operator supported tools, e.g. using a harness for	37/00	Devices for loosening soil compacted by wheels or
	supporting the tool or power unit}		the like
33/028	• • {of the walk-behind type (walk-type tractors	39/00	Other machines specially adapted for working soil
	<u>B62D 51/04</u>)}	22,00	on which crops are growing
33/04	• with tools on horizontal shaft parallel to direction of	39/02	• with non-rotating tools
22/06	travel	39/04	drawn by animal or tractor
33/06	• with tools on vertical or steeply-inclined shaft	39/06	Self-propelled machines
33/065	 {comprising a plurality of rotors carried by an elongate, substantially closed transmission casing, 	39/08	with rotating tools {such as weeding machines}
	transversely connectable to a tractor}	39/085	• • {the rotating tools being actively driven}
33/08	• Tools; Details, e.g. adaptations of transmissions or	39/10	with oscillating tools {driven or not}
22.30	gearings	39/12	• for special purposes {, e.g. for special culture}
33/082	• • {Transmissions; Gearings; Power distribution}	39/14	• • for working ridges {, e.g. for rows of plants and/
33/085	• • · {specially adapted for tools on a vertical shaft}		or furrows}
33/087	• • {Lifting devices; Depth regulation devices;		
	Mountings}		

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39/166 (actively driven) 39/166 (actively driven) 39/18 Rod weeders, i.e. weeder with rotary rods 39/19 Rod weeders, i.e. weeder with rotary rods 29/20 . Tools: Stouting tools 39/21 Tools: Stouting tools 39/22 Tools: Stouting tools 39/22	39/16	• • for working in vineyards, orchards, or the like {; Arrangements for preventing damage to vines (ploughs adapted for working in vineyards	51/04 51/045	drawn by animal or tractor{drawn by animals}
Implements (AOIB 6.500) dises precedence, vehicle spread only of the tractor South Spentile spread only of the tractor South Spentile spread on the spentile spread on the spont spread on the spont spread on the spont spread on the tractor South Spentile spread on the spont spread on the spentile spread on the spont spread on the	20/163	<u>A01B 13/06</u>)}	59/00	Devices specially adapted for connection between animals or tractors and agricultural machines or
39/18 . for weeding 39/19 . Rod weeders, i.e. weeder with rotary rods propelled heneath the soil surface 39/20 . Tools: Details 39/22 . Tools: Wounting tools 39/24 . Tools: Wounting tools 39/25 . Arrangement for protecting plants {, e.g. feathers} 39/26 . Arrangement for protecting plants {, e.g. for special additional arrangements (AOIB 49/00 takes precedence) 39/28 . with special additional arrangements (AOIB 49/00 takes precedence) 39/28 . with special additional arrangements (AOIB 49/00 takes precedence) 39/28 . with special additional arrangements (AOIB 49/00 takes precedence) 41/00 . With containing tools 41/00 . with celetric, e.g. photo-electric control of thimning operations 41/00 . with cletric, e.g. photo-electric control of thimning operations 41/00 . With containing tools 41/00 . With containing tools 41/00 . With containing tools 41/00 . With rotating arranged on the middle part of the tractor 41/00 . With rotating and shaft of the tractor control of thimning operations 41/00 . With rotating and third reel actively driven an reciprocating movement through a canabishaft or eccentric mechanism) 45/00 . [Ferforators comprising spiking tools actively driven in a reciprocating movement through a canabishaft or eccentric mechanism) 49/00 . [Sociaffers comprising a knife reel actively driven around a substantially brizontal shaft] 49/00 . [Sociaffers comprising a knife reel actively driven around a substantially brizontal shaft] 49/00 . [Windower-type are actively driven around a substantially brizontal shaft] 49/00 . [Windower-type are actively driven around a substantially brizontal shaft] 49/00 . [Windower-type are actively driven around a substantially brizontal shaft] 49/00 . [Windower-type are actively driven around a substantially brizontal shaft] 49/00 . [Windower-type are actively driven around a substantially brizontal shaft] 49/00 . [Windower-type are acti				
sylly - Rod weeders, i.e. weeder with rotary rods popelled beheath the soil surface spoelled beheath the soil surface sylloud propelled beheath the sylloud propelled beheath the sylloud propelled beheath the sylloud propelled beheath the sylloud propelled by a functor sylloud propelled propelled by a functor sylloud propelled propelled by a functor sylloud propelled prope				connections in general <u>B60D</u> ; draught assemblies for
propelled beneath the soil surface 39:22		<u> </u>		animal drawn vehicles, in general <u>B62C 5/00</u>)
39/20 . Tools: Mounting tools 39/24 . Indecrariages (ADIB 23:04) takes precedence) 39/26 . Arrangements for protecting plants (e.g. 59/08) 39/28 . with special additional arrangements (ADIB 49:00) takes precedence) 39/28 . with special additional arrangements (ADIB 49:00) takes precedence) 41/00 Thinning machines 41/01 . with rotating tools 41/02 . with notating tools 41/04 . with rotating tools 41/04 . with rotating tools 43/00 Gatherers for removing stones, undesirable roots or the like from the soil, e.g. tractor-drawn rakes 43/005 . [Windower-type machines] 45/00 Machines for treating meadows or lawns [, e.g. for sports grounds] 45/002 . for aeraining 45/002 . [Scarlifers comprising spiking tools actively driven in a reciprocating movement through a cranistrant or eccentric mechanism) 45/002 . [Scarlifers 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 atrached to machines of a different kind, e.g. harrows attached to phoghs, see the relevant groups for the machines) 49/00 . (a latest one tool being actively driven) 49/00 . (a latest one tool being actively driven) 49/00 . (a latest one tool being actively driven) 49/00 . (b sooking or protecting plants [, e.g.] for sports grounds] 59/004 . (b connection comprising on grindinally or protection to the fractor) 69/004 . (b connection comprising a rigid interface frame on the tractor) 69/005 . (b connection comprising on grindinally or protection comprising on grindinally or protection or disconnection controlled from the directors or disconnection or office machines or adjust to protect actively driven) 49/00 . (a latest on tool being actively driven) 49/00 . (b connection comprising only driven) 49/00 . (b connection solities) 49/00 . (b connection soli	39/19		59/002	• {Details, component parts}
59022 . Tools: Mounting tools 3924 . Arrangements for protecting plunts [, e.g. 5904] 3926 . Arrangements for protecting plunts [, e.g. 5904] 3928 . with special additional arrangements (A01B 4900 takes precedence) 41090 . with special additional arrangements (A01B 4900 takes precedence) 4100 . with oscillaring tools 4100 . with cellaring tools 4100 . with electric, e.g. photo-electric control of thinning operations 4100 . with electric, e.g. photo-electric control of thinning operations 43000 . Gatherers for removing stones, undesirable roots or the like from the soil, e.g. tractor-drawn rakes 43005 . [Windrower-type machines] 45000 . [Windrower-type machines] 45001 . [Perforators comprising spiking tools actively driven in arciprocating movement through a cranishalt or eccentric mechanism] 45002 . [Perforators comprising spiking tools actively driven in arciprocating movement through a cranishalt or eccentric mechanism] 45002 . [Scarifiers comprising a prike real excively driven around a substantially horizonal shaft] 47000 . Soil-working with electric potential applied between tools and soil 49002 . (at least one tool being actively driven) 49002 . (at least one tool being actively driven) 49004 . Combinations of sail-working tools of different kind. e.g. a partially colls with non-soil-working tools, e.g. phaning tools with non-soil-working tools, e.g. phaning tools of different kind. e.g. e.g. phaning tools actively driven) 49002 . (at least one tool being actively driven) 49003 . (bread and substantially vertical axis) 49004 . (at least one tool being actively driven) 49005 . (bread as substantially vertical axis) 49006 . (bread substantially vertical axis) 49007 . (bread substantially vertical axis) 49008 . (bread substantially vertical axis) 49009 . (bread substantially vertical axis) 49000 . (bread substantially vertical axis) 49000 . (bread substantially vertical axis) 49000	30/20		59/004	• • {Length-adjustable links}
59024 . Undervarriages (AOIB 23.04 tukes precedence) 59025 [enders] 3928 . with operations for protecting plants (, e.g. 59024 3928 . with special additional arrangements (AOIB 4900		•	59/006	• • {Latched hooks}
39/26 Arrangements for protecting plants [, e.g. fenders] 59/04			59/008	• • {Link connectors with spherical surfaces}
5904 59041			59/02	 for animal-drawn machines
39/28 with special additional arrangements (A01B 49/00 takes precedence) 41/00 Thinning machines Thinning machines 43/00 Thinning machines 59/042 Thinning machines 59/043 Thinning machines 59/043 Thinning machines 59/044 Thinning machines 59/045 Thinning machines 59/045 Thinning machines 59/046 Thinning pulling means arranged on the middle par of the tractor 59/046 Thinning pulling means arranged on the middle par of the tractor 59/046 Thinning pulling means arranged on the middle par of the tractor 59/046 Thinning pulling proposal arranged on the middle par of the tractor 59/047 Thinning pulling proposal arranged on the middle par of the tractor 59/046 Thinning pulling proposal arranged on the middle par of the tractor 59/046 Thinning pulling proposal arranged on the middle par of the tractor 59/046 Thinning pulling proposal arranged on the middle par of the tractor 59/046 Thinning pulling proposal ar	37/20		59/04	 for machines pulled or pushed by a tractor
41/00 Thinning machines	39/28	• with special additional arrangements (A01B 49/00		(preventing overstrain A01B 61/00)
41/02 with rotating tools 41/06 with rotating tools 41/06 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 43/005 (Windrower-type machines) 45/00 Machines for treating meadows or lawns (e.g. for sports grounds) 45/00 In a ready of the tractor sports grounds 45/00 (Perforators comprising spiking tools actively driven in a reciprocating movement through a crankshaft or eccentric mechanism) 45/00 (Soil-working with electric potential applied between tools and soil 47/00 Soil-working with electric potential applied between tools and soil 49/00 Combined machines (auxiliary devices attached to ploughs, see the relevant groups for the machines) 49/00 with root more soil-working tools of different kind 49/002 (with a rotating, soil working support element, e.g., a roller) 49/004 (Combinations of soil-working tools being actively driven) 49/005 (With a rotating, soil working tools being actively driven) 49/005 (With a rotating, soil working tools being actively driven) 49/005 (With a rotating, soil working tools being actively driven) 49/005 (With a rotating, soil working tools being actively driven) 49/005 (With a rotating, soil working tools being actively driven) 49/005 (With a rotating, soil working tools being actively driven) 49/005 (With a rotating, soil working tools being actively driven) 49/005 (With a rotating, soil working tools being actively driven) 49/005 (With a rotating, soil working tools being actively driven) 49/005 (With a rotating, soil working tools being actively driven) 49/006 (With a rotating, soil working tools being actively driven) 49/007 (With a rotating, soil working tools being actively driven) 49/008 (With a rotating, soil working tools being actively driven) 49/009 (With a rotating, soil working tools being actively driven) 49/000 (With a rotating, soil working tools being actively driven) 49/000 (With a rotating, soil working tools being	44 /00	m:	59/0415	
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 soll, e.g. tractor-drawn rakes 43/00 (Windrower-type machines) 45/00 Machines for treating meadows or lawns (, e.g. for sports grounds) 45/02 (For aerating accomplising spiking tools actively driven) are reciprocating movement through a crankshaft or excentric mechanism) 45/02 (For aerating and a substantially horizontal shaft) 45/02 (Sairfiers comprising a knife reed 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 ploughs, see the relevant groups for the machines) 49/00 with two or more soil-working tools of different kind 49/00 (Soil-working or substantially vertical axis) 49/00 (Soil-working or substa			5 0/0/ 5	•
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43/00 Gatherers for removing stones, undesirable roots or the like from the soil, e.g. tractor-drawn rakes 43/00 Machines for treating meadows or lawns {, e.g. for sports grounds} 45/00 Machines for treating meadows or lawns {, e.g. for sports grounds} 45/02 for aerating 45/02 or aerating 45/02 or aerating 45/02 or aerating 45/02 or aerating 45/03 or aerating 45/04 (Searifiers comprising a kinfe reel actively driven around a substantially horizontal shaft) 45/05 or aerating 45/06 or Combined machines (auxiliary devices attached to machines of a different kind e.g. harrows attached to ploughs, see the relevant groups for the machines) 49/00 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 vith two or more soil-working tools of different kind e.g. a roller) 49/04 Combinations of soil-working tools with non-soil-working tools, e.g. planting tools 49/06 ros sowing or fertilising 49/06 for sowing or fertilising 49/06 ros sowing or fertilising 49/06 ros sowing or fertilising 59/06 ros sowing or fertilising 49/06 ros sowing or fertilising 59/06 ros sowing or fertilising 61/02 ro			50/042	
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Solution			61/02	
 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) 61/044 • (of the connection between tools and carrier beam of 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) 				
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) frame 61/042 • (with shearing devices) • (the connection enabling a yielding pivoting movement around a substantially horizontal and transverse axis) • (and the connection enabling a yielding pivoting movement around a substantially horizontal and transverse axis) • (and the connection enabling a yielding pivoting movement around a substantially horizontal and transverse axis) • (and the connection enabling a yielding pivoting movement around a substantially horizontal and transverse axis)	51 /00	TI. J		
(general vehicle aspects, see the relevant subclass of class B60 or B62) 51/02 • propelled by a motor • (of the Gantry-type) 51/026 • (of the automotive vehicle type, e.g. including driver accommodation (A01B 51/023 takes) 61/042 • (with shearing devices) • (the connection enabling a yielding pivoting movement around a substantially horizontal and transverse axis} • (of the device including an energy accumulator for restoring the tool to its working position)	51/00		01/04	
class B60 or B62) 51/02 • propelled by a motor 51/023 • { of the Gantry-type } • { of the automotive vehicle type, e.g. including driver accommodation (A01B 51/023 takes} 61/044 • { the connection enabling a yielding pivoting movement around a substantially horizontal and transverse axis } • { the device including an energy accumulator for restoring the tool to its working position }			61/042	
 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 61/046 • {the device including an energy accumulator for restoring the tool to its working position} 				
 51/023 . {of the Gantry-type} 51/026 . {of the automotive vehicle type, e.g. including driver accommodation (A01B 51/023 takes 61/046 . {the device including an energy accumulator for restoring the tool to its working position} 	51/02		01/044	
51/026 • {of the automotive vehicle type, e.g. including driver accommodation (A01B 51/023 takes 61/046 • • {the device including an energy accumulator for restoring the tool to its working position}				
driver accommodation (A01B 51/023 takes for restoring the tool to its working position)			61/046	,
	51/020	driver accommodation (A01B 51/023 takes	-	

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61/048	• • • { the connection or the energy accumulator being active in two opposite directions, e.g. for reversible plows }	63/24 63/245	 Tools or tool-holders adjustable relatively to the frame {laterally adjustable}
	•	63/26	by man-power
63/00	Lifting or adjusting devices or arrangements	63/28	operated by the machine or implement
	for agricultural machines or implements	63/30	 operated by motor power through a mechanical
	(lifting mechanisms for the cutter-bar of a mower	03/30	transmission
	A01D 34/24; adjusting devices for the cutter-bar of a mower A01D 34/28; constructional features of lifting	63/32	operated by hydraulic or pneumatic means
	devices per se B66F)		{without automatic control}
63/002	• {Devices for adjusting or regulating the position of	<= 10.0	
03/002	tools or wheels (preventing overstrain A01B 61/00;	67/00	Devices for controlling the tractor motor
	wheels adjustable relatively to the frame for drawn		by resistance of tools (preventing overstrain A01B 61/00)
	implements A01B 3/16; tools or tool holders		A01B 01/00)
	adjustable relatively to the frame for drawn	69/00	Steering of agricultural machines or implements;
	implements <u>A01B 63/24</u>)}		Guiding agricultural machines or implements on a
63/004	• • {Lateral adjustment of tools}		desired track
63/006	• • {Lateral adjustment of wheels}		<u>NOTE</u>
63/008	• • {Vertical adjustment of tools (<u>A01B 63/10</u> takes		In this group it is obligatory to classify subject-
	precedence)}		matter in the first appropriate place. It is however
63/02	• for implements mounted on tractors		allowed to apply multiple classification where
63/023	• • {Lateral adjustment of their tools}		considered useful for search
63/026	{Lateral adjustment of their wheels}	40,1004	
63/04	Hand devices; Hand devices with mechanical	69/001	• {Steering by means of optical assistance, e.g.
(2/045	accumulators, e.g. springs		television cameras (steering devices for road marking vehicles <u>E01C 23/163</u>)}
63/045	 {for vertically adjusting wheels or similar rotary supporting elements} 	69/002	• {Steering or guiding on a substantially circular or
63/06	 operated mechanically by tractor motor 	09/002	spiral path}
63/08	operated by the movement of the tractor	69/003	• {Steering or guiding of machines or implements
63/10	operated by the movement of the tractor operated by hydraulic or pneumatic means	07/005	pushed or pulled by or mounted on agricultural
63/1006	• • • • • • • • • • • • • • • • • • •		vehicles such as tractors, e.g. by lateral shifting of
05/1000	belonging to the tractor}		the towing connection}
63/1013	• • • {and being located inside the tractor body}	69/004	• • {automatic}
63/102	characterised by the location of the mounting	69/005	• • {by an additional operator}
	on the tractor, e.g. on the rear part	69/006	• • {derived from the steering of the tractor}
63/104	• • • on the middle part, i.e. between front and	69/007	• {Steering or guiding of agricultural vehicles, e.g.
	rear wheels		steering of the tractor to keep the plough in the
63/106	on the side	co/000	furrow}
63/108	on the front part	69/008	• • {automatic}
63/11	for controlling weight transfer between	69/02	 Ridge-marking or like devices; Checkrow wires; Accessories therefor
-0.4.4	implements and tractor wheels	69/022	Ridge marking by deposition of a chemical
63/111	regulating working depth of implements	07/022	substance, e.g. foam, on the surface of the soil}
63/1112	{using a non-tactile ground distance	69/024	• • {adapted to cut and form a ridge or forrow in the
63/1115	measurement, e.g. using reflection of waves} {using a mechanical ground contact sensor}	27.0-	soil surface, e.g. with a disc}
63/1117	 {using a friedmandar ground contact sensor} {using a hitch position sensor}	69/026	• • {Checkrow wires}
63/1117	• • • • to control draught load, i.e. tractive force	69/028	• • • {the wire being located above the ground}
63/114	to achieve a constant working depth	71/00	
63/1145		71/00	Construction or arrangement of setting or adjusting mechanisms, of implement or tool
03/1143	implements and tractor wheels}		drive or of power take-off; Means for protecting
63/118	Mounting implements on power-lift linkages		parts against dust, or the like; Adapting machine
	(A01B 59/043 takes precedence; preventing or		elements to or for agricultural purposes {(adjusting
	limiting side-play of implements A01B 59/041;		mechanisms in general <u>G05G</u>)}
	preventing overstrain A01B 61/00)	71/02	 Setting or adjusting mechanisms
63/12	operated by an electric motor	71/04	 Bearings of rotating parts, e.g. for soil-working
63/14	for implements drawn by animals or tractors		discs ({discs <u>A01B 15/16</u> , <u>A01B 23/06</u> }; bearings
63/145	{for controlling weight transfer between		in general <u>F16C</u>)
60.11.6	implements and tractor wheels}	71/06	. Special adaptations of coupling means between
63/16	• with wheels adjustable relatively to the frame		power take-off and transmission shaft to the
63/163	{laterally adjustable}		implement or machine (couplings for transmitting rotation <u>F16D</u>)
63/166	{manually adjustable}	71/063	• • {for enabling transmission coupling and
63/18	with clutch between Z-type axle and wheel	, 1,005	connection between tractor and implements to be
63/20	with gear and rack		controlled from the driver's seat}
63/22	operated by hydraulic or pneumatic means		,

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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 (<u>A01B 15/16</u>, <u>A01B 19/10</u> and <u>A01B 23/06</u> take precedence; screening of rotary driven tilling tools <u>A01B 33/12</u>; screening of rotary parts in general <u>F16P 1/00</u>)

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 $\underline{A01B~63/00}$; {carriers for harvesters or mowers $\underline{A01D~75/002}$; arrangements or carriers for haymakers $\underline{A01D~78/1007}$, $\underline{A01D~80/005}$; } vehicles adapted for load transportation or to transport, to carry or to comprise special loads or objects $\underline{B60P}$; motor vehicles, trailers $\underline{B62D}$)

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 . . fold

. . 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 <u>A01N 25/00</u> - <u>A01N 65/00</u>; fertilisers <u>C05</u>; soil-conditioning or soil-stabilising materials <u>C09K 17/00</u>)

79/00

Methods for working soil

79/005

• {Precision agriculture}

79/02

combined with other agricultural processing, e.g. fertilising, planting

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