SECTION A - HUMAN NECESSITIES

AGRICULTURE

3/20 . . . Balance ploughs

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; machines for harvesting root crops A01D; mowers convertible to soil working apparatus or capable of soil working A01D 42/04; mowers combined with soil working implements A01D 43/12; soil working for engineering purposes E01, E02, E21)

HAND T	OOLS	IMPLEMENTS USABLE EITHER AS
PLOUGH	IS	PLOUGHS OR AS HARROWS OR THE
	General construction	OTHER MACHINES
	9/00, 11/00	ELEMENTS OR PARTS OF MACHINES OR
	Special adaptations	IMPLEMENTS
	Details	TRANSPORT IN AGRICULTURE51/00, 73/00,
HARROV		75/00
	General construction	OTHER PARTS, DETAILS OR
	Special applications	ACCESSORIES OF AGRICULTURAL
	Details	MACHINES OR IMPLEMENTS76/00
		PARTICULAR METHODS FOR WORKING
		SOIL47/00, 79/00
1/00	Hand tools (edge trimmers for lawns A01G 3/06)	3/22 with parallel plough units used alternately
1/02	. Spades; Shovels	3/24 . Tractor-drawn ploughs (A01B 3/04 takes precedence)
1/04	with teeth	3/26 . without alternating possibility
1/06	Hoes; Hand cultivators	3/28 Alternating ploughs
1/08	• • with a single blade	3/30 Turn-wrest ploughs
1/10	with two or more blades	3/32 Balance ploughs
1/12	with blades provided with teeth	3/34 with parallel plough units used alternately
1/14	with teeth only	3/36 • Ploughs mounted on tractors
1/16	. Tools for uprooting weeds	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 B25G); 	3/421 with a headstock frame made in one piece [2]
	Interchangeable or adjustable blades	3/426 with a headstock frame made of two or more
1/24	. for treating meadows or lawns [2]	parts [2]
DI 1		3/44 with parallel plough units used alternately
<u>Ploughs</u>		 3/46 • Ploughs supported partly by tractor and partly by their own wheels
3/00	Ploughs with fixed plough-shares	3/50 . Self-propelled ploughs
3/02	. Man-driven ploughs	3/52 with three or more wheels, or endless tracks
3/04	. Animal-drawn ploughs	3/54 without alternating possibility
3/06	without alternating possibility, i.e. incapable of	3/56 Alternating ploughs
	making an adjacent furrow on return journey	3/58 with two wheels
3/08	Swing ploughs	3/60 Alternating ploughs
3/10	Trussed-beam ploughs; Single-wheel ploughs	3/62 Balance ploughs
3/12	Two-wheel beam ploughs	3/64 . Cable ploughs; Indicating or signalling devices for
3/14	Frame ploughs	cable plough systems
3/16	 Alternating ploughs, i.e. capable of making an adjacent furrow on return journey 	3/66 with motor-driven winding apparatus mounted on the plough
3/18	Turn-wrest ploughs	3/68 Cable systems with one or two engines
3/20	Balance ploughs	2/70

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3/70 . . . Systems with one engine for working uphill

3/72	Means for anchoring the cables	19/08	 with link network supporting tooth-like tools
3/74	 Use of electric power for propelling ploughs (electric current collectors B60L 5/00) 	19/10	. Lifting or cleaning apparatus
5 /00	Diougha with welling you deliver tools as a diagrament	21/00	Harrows with rotary non-driven tools (tilling
5/00	Ploughs with rolling non-driven tools, e.g. discs (with rotary driven tools A01B 9/00)	21/02	implements with rotary driven tools A01B 33/00)
5/02	. drawn by animals	21/02	with tooth-like tools
5/04	drawn by tractors	21/04	on horizontally-arranged axles
5/04	without alternating possibility	21/06	on vertically-arranged axles
5/08	Alternating ploughs	21/08	. with disc-like tools
5/10	Merinating ploughs mounted or partly-mounted on tractors	23/00	Elements, tools, or details of harrows
5/10	• •	23/02	. Teeth; Fixing the teeth
5/14	without alternating possibilityAlternating ploughs	23/04	Frames (means or arrangements to facilitate
5/14	Self-propelled disc or like ploughs		transportation A01B 73/00); Drawing-
3/10	. Sen-properied disc of like proughs		arrangements [4]
7/00	Disc-like soil-working implements usable either as ploughs or as harrows, or the like	23/06	Discs (A01B 15/16 takes precedence; bearings therefor A01B 71/04); Scrapers for cleaning discs;
9/00	Ploughs with rotary driven tools (tilling implements		Sharpening attachments (sharpening in general B24) [2]
,,00	with rotary driven tools A01B 33/00)		D24) [2]
11/00	Ploughs with oscillating, digging or piercing tools	25/00	Harrows with special additional arrangements, e.g. means for distributing fertilisers; Harrows for
13/00	Ploughs or like machines for special purposes (for		special purposes (A01B 39/00 takes precedence)
	drainage E02B 11/02)	0.4	
13/02	. for making or working ridges, e.g. with	Other m	achines for working soil
13/04	symmetrically arranged mouldboards for working in vineyards, orchards, or the like	27/00	Clod-crushers
13/06	Arrangements for preventing damage to the vines,	29/00	Rollers
	or the like	29/02	. with smooth surface
13/08	. for working subsoil	29/04	with non-smooth surface formed of rotatably-
13/10	Special implements for lifting subsoil layers		mounted rings or discs or with projections or ribs on
13/12	Means for distributing the layers on the surface	29/06	the roller body; Land packers
13/14	 for working soil in two or more layers 	29/00	 with special additional arrangements
13/16	 Machines for combating erosion, e.g. basin-diggers, furrow-dammers 	31/00	Drags
	furrow-dammers	31/00 33/00	Drags Tilling implements with rotary driven tools
15/00	furrow-dammers Elements, tools, or details of ploughs		Tilling implements with rotary driven tools . with tools on horizontal shaft transverse to direction
15/00 15/02	furrow-dammers Elements, tools, or details of ploughs . Plough blades; Fixing the blades	33/00 33/02	Tilling implements with rotary driven tools with tools on horizontal shaft transverse to direction of travel
15/00 15/02 15/04	furrow-dammers Elements, tools, or details of ploughs Plough blades; Fixing the blades Shares	33/00	Tilling implements with rotary driven tools with tools on horizontal shaft transverse to direction of travel with tools on horizontal shaft parallel to direction of
15/00 15/02 15/04 15/06	furrow-dammers Elements, tools, or details of ploughs Plough blades; Fixing the blades Shares Interchangeable or adjustable shares	33/00 33/02 33/04	 Tilling implements with rotary driven tools with tools on horizontal shaft transverse to direction of travel with tools on horizontal shaft parallel to direction of travel
15/00 15/02 15/04 15/06 15/08	furrow-dammers Elements, tools, or details of ploughs Plough blades; Fixing the blades Shares Interchangeable or adjustable shares Mouldboards	33/00 33/02 33/04 33/06	 Tilling implements with rotary driven tools with tools on horizontal shaft transverse to direction of travel with tools on horizontal shaft parallel to direction of travel with tools on vertical or steeply-inclined shaft
15/00 15/02 15/04 15/06 15/08 15/10	furrow-dammers Elements, tools, or details of ploughs Plough blades; Fixing the blades Interchangeable or adjustable shares Mouldboards Interchangeable or adjustable mouldboards	33/00 33/02 33/04	 Tilling implements with rotary driven tools with tools on horizontal shaft transverse to direction of travel with tools on horizontal shaft parallel to direction of travel with tools on vertical or steeply-inclined shaft Tools; Details, e.g. adaptations of transmissions or
15/00 15/02 15/04 15/06 15/08	furrow-dammers Elements, tools, or details of ploughs Plough blades; Fixing the blades Interchangeable or adjustable shares Mouldboards Interchangeable or adjustable mouldboards Beams; Handles (handles for tools or their attachment	33/00 33/02 33/04 33/06 33/08	 Tilling implements with rotary driven tools with tools on horizontal shaft transverse to direction of travel with tools on horizontal shaft parallel to direction of travel with tools on vertical or steeply-inclined shaft Tools; Details, e.g. adaptations of transmissions or gearings
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15/00 15/02 15/04 15/06 15/08 15/10 15/12	furrow-dammers Elements, tools, or details of ploughs Plough blades; Fixing the blades Interchangeable or adjustable shares Mouldboards Interchangeable or adjustable mouldboards Beams; Handles (handles for tools or their attachment in general B25G) Frames (means or arrangements to facilitate transportation A01B 73/00) [4] Discs (bearings therefor A01B 71/04); Scrapers for cleaning discs; Sharpening attachments (sharpening	33/00 33/02 33/04 33/06 33/08 33/10 33/12 33/14	 Tilling implements with rotary driven tools with tools on horizontal shaft transverse to direction of travel with tools on horizontal shaft parallel to direction of travel with tools on vertical or steeply-inclined shaft Tools; Details, e.g. adaptations of transmissions or gearings Structural or functional features of the tools Arrangement of the tools; Screening of the tools Attaching the tools to the rotating shaft, e.g. resiliently-attached tools
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15/00 15/02 15/04 15/06 15/08 15/10 15/12 15/14 15/16	furrow-dammers Elements, tools, or details of ploughs Plough blades; Fixing the blades Interchangeable or adjustable shares Interchangeable or adjustable mouldboards Interchangeable or adjustable mouldboards Beams; Handles (handles for tools or their attachment in general B25G) Frames (means or arrangements to facilitate transportation A01B 73/00) [4] Discs (bearings therefor A01B 71/04); Scrapers for cleaning discs; Sharpening attachments (sharpening in general B24) Coulters Special adjusting means for tools of ploughs drawn by, or mounted on tractors working on hillsides or slopes Ploughs with special additional arrangements,	33/00 33/02 33/04 33/06 33/08 33/10 33/12 33/14 33/16 35/00 35/02 35/04	 Tilling implements with rotary driven tools with tools on horizontal shaft transverse to direction of travel with tools on horizontal shaft parallel to direction of travel with tools on vertical or steeply-inclined shaft Tools; Details, e.g. adaptations of transmissions or gearings Structural or functional features of the tools Arrangement of the tools; Screening of the tools Attaching the tools to the rotating shaft, e.g. resiliently-attached tools with special additional arrangements (A01B 49/00 takes precedence; for sowing or fertilising A01B 49/06) [2] Other machines for working soil (A01B 37/00, A01B 39/00, A01B 77/00 take precedence) with non-rotating tools drawn by animal or tractor
15/00 15/02 15/04 15/06 15/08 15/10 15/12 15/14 15/16	 Elements, tools, or details of ploughs Plough blades; Fixing the blades Shares Interchangeable or adjustable shares Mouldboards Interchangeable or adjustable mouldboards Beams; Handles (handles for tools or their attachment in general B25G) Frames (means or arrangements to facilitate transportation A01B 73/00) [4] Discs (bearings therefor A01B 71/04); Scrapers for cleaning discs; Sharpening attachments (sharpening in general B24) Coulters Special adjusting means for tools of ploughs drawn by, or mounted on tractors working on hillsides or slopes 	33/00 33/02 33/04 33/06 33/08 33/10 33/12 33/14 33/16 35/00 35/02 35/04 35/06	 Tilling implements with rotary driven tools with tools on horizontal shaft transverse to direction of travel with tools on horizontal shaft parallel to direction of travel with tools on vertical or steeply-inclined shaft Tools; Details, e.g. adaptations of transmissions or gearings Structural or functional features of the tools Arrangement of the tools; Screening of the tools Attaching the tools to the rotating shaft, e.g. resiliently-attached tools with special additional arrangements (A01B 49/00 takes precedence; for sowing or fertilising A01B 49/06) [2] Other machines for working soil (A01B 37/00, A01B 39/00, A01B 77/00 take precedence) with non-rotating tools drawn by animal or tractor with spring tools
15/00 15/02 15/04 15/06 15/08 15/10 15/12 15/14 15/16	furrow-dammers Elements, tools, or details of ploughs Plough blades; Fixing the blades Interchangeable or adjustable shares Interchangeable or adjustable mouldboards Interchangeable or adjustable mouldboards Beams; Handles (handles for tools or their attachment in general B25G) Frames (means or arrangements to facilitate transportation A01B 73/00) [4] Discs (bearings therefor A01B 71/04); Scrapers for cleaning discs; Sharpening attachments (sharpening in general B24) Coulters Special adjusting means for tools of ploughs drawn by, or mounted on tractors working on hillsides or slopes Ploughs with special additional arrangements, e.g. means for putting manure under the soil, clod-	33/00 33/02 33/04 33/06 33/08 33/10 33/12 33/14 33/16 35/00 35/02 35/04 35/06 35/08	Tilling implements with rotary driven tools with tools on horizontal shaft transverse to direction of travel with tools on horizontal shaft parallel to direction of travel with tools on vertical or steeply-inclined shaft Tools; Details, e.g. adaptations of transmissions or gearings Structural or functional features of the tools Arrangement of the tools; Screening of the tools Attaching the tools to the rotating shaft, e.g. resiliently-attached tools with special additional arrangements (A01B 49/00 takes precedence; for sowing or fertilising A01B 49/06) [2] Other machines for working soil (A01B 37/00, A01B 39/00, A01B 77/00 take precedence) with non-rotating tools drawn by animal or tractor with rigid tools
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15/00 15/02 15/04 15/06 15/08 15/10 15/12 15/14 15/16 15/20 17/00	 Elements, tools, or details of ploughs Plough blades; Fixing the blades Shares Interchangeable or adjustable shares Mouldboards Interchangeable or adjustable mouldboards Beams; Handles (handles for tools or their attachment in general B25G) Frames (means or arrangements to facilitate transportation A01B 73/00) [4] Discs (bearings therefor A01B 71/04); Scrapers for cleaning discs; Sharpening attachments (sharpening in general B24) Coulters Special adjusting means for tools of ploughs drawn by, or mounted on tractors working on hillsides or slopes Ploughs with special additional arrangements, e.g. means for putting manure under the soil, clod-crushers (A01B 49/00 takes precedence; ploughs for working subsoil A01B 13/08) [2] 	33/00 33/02 33/04 33/06 33/08 33/10 33/12 33/14 33/16 35/00 35/02 35/04 35/06 35/08 35/10 35/12 35/14	Tilling implements with rotary driven tools with tools on horizontal shaft transverse to direction of travel with tools on horizontal shaft parallel to direction of travel with tools on vertical or steeply-inclined shaft Tools; Details, e.g. adaptations of transmissions or gearings Structural or functional features of the tools Arrangement of the tools; Screening of the tools Attaching the tools to the rotating shaft, e.g. resiliently-attached tools with special additional arrangements (A01B 49/00 takes precedence; for sowing or fertilising A01B 49/06) [2] Other machines for working soil (A01B 37/00, A01B 39/00, A01B 77/00 take precedence) with non-rotating tools drawn by animal or tractor with spring tools mounted on tractors with rigid tools with rigid tools with rigid tools
15/00 15/02 15/04 15/06 15/08 15/10 15/12 15/14 15/16 15/18 15/20 17/00 Harrows 19/00	 Elements, tools, or details of ploughs Plough blades; Fixing the blades Shares Interchangeable or adjustable shares Mouldboards Interchangeable or adjustable mouldboards Beams; Handles (handles for tools or their attachment in general B25G) Frames (means or arrangements to facilitate transportation A01B 73/00) [4] Discs (bearings therefor A01B 71/04); Scrapers for cleaning discs; Sharpening attachments (sharpening in general B24) Coulters Special adjusting means for tools of ploughs drawn by, or mounted on tractors working on hillsides or slopes Ploughs with special additional arrangements, e.g. means for putting manure under the soil, clod-crushers (A01B 49/00 takes precedence; ploughs for working subsoil A01B 13/08) [2] Harrows with non-rotating tools 	33/00 33/02 33/04 33/06 33/08 33/10 33/12 33/14 33/16 35/00 35/02 35/04 35/06 35/08 35/10 35/12 35/14 35/16	Tilling implements with rotary driven tools with tools on horizontal shaft transverse to direction of travel with tools on horizontal shaft parallel to direction of travel with tools on vertical or steeply-inclined shaft Tools; Details, e.g. adaptations of transmissions or gearings Structural or functional features of the tools Arrangement of the tools; Screening of the tools Attaching the tools to the rotating shaft, e.g. resiliently-attached tools with special additional arrangements (A01B 49/00 takes precedence; for sowing or fertilising A01B 49/06) [2] Other machines for working soil (A01B 37/00, A01B 39/00, A01B 77/00 take precedence) with non-rotating tools drawn by animal or tractor with spring tools mounted on tractors with rigid tools muth rotating or circulating non-propelled tools
15/00 15/02 15/04 15/06 15/08 15/10 15/12 15/14 15/16 15/20 17/00	 Elements, tools, or details of ploughs Plough blades; Fixing the blades Shares Interchangeable or adjustable shares Mouldboards Interchangeable or adjustable mouldboards Beams; Handles (handles for tools or their attachment in general B25G) Frames (means or arrangements to facilitate transportation A01B 73/00) [4] Discs (bearings therefor A01B 71/04); Scrapers for cleaning discs; Sharpening attachments (sharpening in general B24) Coulters Special adjusting means for tools of ploughs drawn by, or mounted on tractors working on hillsides or slopes Ploughs with special additional arrangements, e.g. means for putting manure under the soil, clod-crushers (A01B 49/00 takes precedence; ploughs for working subsoil A01B 13/08) [2] Harrows with non-rotating tools with tools rigidly or elastically attached to a tool- 	33/00 33/02 33/04 33/06 33/08 33/10 33/12 33/14 33/16 35/00 35/02 35/04 35/08 35/10 35/12 35/14 35/16 35/18	Tilling implements with rotary driven tools with tools on horizontal shaft transverse to direction of travel with tools on horizontal shaft parallel to direction of travel with tools on vertical or steeply-inclined shaft Tools; Details, e.g. adaptations of transmissions or gearings Structural or functional features of the tools Arrangement of the tools; Screening of the tools Attaching the tools to the rotating shaft, e.g. resiliently-attached tools with special additional arrangements (A01B 49/00 takes precedence; for sowing or fertilising A01B 49/06) [2] Other machines for working soil (A01B 37/00, A01B 39/00, A01B 77/00 take precedence) with non-rotating tools drawn by animal or tractor with spring tools mounted on tractors with rigid tools with rotating or circulating non-propelled tools with both rotating and non-rotating tools
15/00 15/02 15/04 15/06 15/08 15/10 15/12 15/14 15/16 15/18 15/20 17/00 Harrows 19/00 19/02	Elements, tools, or details of ploughs Plough blades; Fixing the blades Interchangeable or adjustable shares Interchangeable or adjustable mouldboards Interchangeable or adjustable mouldboards Beams; Handles (handles for tools or their attachment in general B25G) Frames (means or arrangements to facilitate transportation A01B 73/00) [4] Discs (bearings therefor A01B 71/04); Scrapers for cleaning discs; Sharpening attachments (sharpening in general B24) Coulters Special adjusting means for tools of ploughs drawn by, or mounted on tractors working on hillsides or slopes Ploughs with special additional arrangements, e.g. means for putting manure under the soil, clod-crushers (A01B 49/00 takes precedence; ploughs for working subsoil A01B 13/08) [2]	33/00 33/02 33/04 33/06 33/08 33/10 33/12 33/14 33/16 35/00 35/02 35/04 35/06 35/08 35/10 35/12 35/14 35/16 35/18 35/20	Tilling implements with rotary driven tools with tools on horizontal shaft transverse to direction of travel with tools on horizontal shaft parallel to direction of travel with tools on vertical or steeply-inclined shaft Tools; Details, e.g. adaptations of transmissions or gearings Structural or functional features of the tools Arrangement of the tools; Screening of the tools Attaching the tools to the rotating shaft, e.g. resiliently-attached tools with special additional arrangements (A01B 49/00 takes precedence; for sowing or fertilising A01B 49/06) [2] Other machines for working soil (A01B 37/00, A01B 39/00, A01B 77/00 take precedence) with non-rotating tools drawn by animal or tractor with spring tools mounted on tractors with rigid tools with rotating or circulating non-propelled tools with both rotating and non-rotating tools Tools; Details
15/00 15/02 15/04 15/06 15/08 15/10 15/12 15/14 15/16 15/18 15/20 17/00 Harrows 19/00 19/02	Elements, tools, or details of ploughs Plough blades; Fixing the blades Interchangeable or adjustable shares Interchangeable or adjustable mouldboards Interchangeable or adjustable mouldboards Beams; Handles (handles for tools or their attachment in general B25G) Frames (means or arrangements to facilitate transportation A01B 73/00) [4] Discs (bearings therefor A01B 71/04); Scrapers for cleaning discs; Sharpening attachments (sharpening in general B24) Coulters Special adjusting means for tools of ploughs drawn by, or mounted on tractors working on hillsides or slopes Ploughs with special additional arrangements, e.g. means for putting manure under the soil, clod-crushers (A01B 49/00 takes precedence; ploughs for working subsoil A01B 13/08) [2] Harrows with non-rotating tools with tools rigidly or elastically attached to a tool-frame with two or more tool-frames	33/00 33/02 33/04 33/06 33/08 33/10 33/12 33/14 33/16 35/00 35/02 35/04 35/06 35/08 35/10 35/12 35/14 35/16 35/18 35/20 35/22	Tilling implements with rotary driven tools with tools on horizontal shaft transverse to direction of travel with tools on horizontal shaft parallel to direction of travel with tools on vertical or steeply-inclined shaft Tools; Details, e.g. adaptations of transmissions or gearings Structural or functional features of the tools Arrangement of the tools; Screening of the tools Attaching the tools to the rotating shaft, e.g. resiliently-attached tools with special additional arrangements (A01B 49/00 takes precedence; for sowing or fertilising A01B 49/06) [2] Other machines for working soil (A01B 37/00, A01B 39/00, A01B 77/00 take precedence) with non-rotating tools drawn by animal or tractor with spring tools mounted on tractors with spring tools with rigid tools with rotating or circulating non-propelled tools with both rotating and non-rotating tools Tools; Details Non-rotating tools; Mounting non-rotating tools
15/00 15/02 15/04 15/06 15/08 15/10 15/12 15/14 15/16 15/18 15/20 17/00 Harrows 19/00 19/02	Elements, tools, or details of ploughs Plough blades; Fixing the blades Interchangeable or adjustable shares Interchangeable or adjustable mouldboards Interchangeable or adjustable mouldboards Beams; Handles (handles for tools or their attachment in general B25G) Frames (means or arrangements to facilitate transportation A01B 73/00) [4] Discs (bearings therefor A01B 71/04); Scrapers for cleaning discs; Sharpening attachments (sharpening in general B24) Coulters Special adjusting means for tools of ploughs drawn by, or mounted on tractors working on hillsides or slopes Ploughs with special additional arrangements, e.g. means for putting manure under the soil, clod-crushers (A01B 49/00 takes precedence; ploughs for working subsoil A01B 13/08) [2]	33/00 33/02 33/04 33/06 33/08 33/10 33/12 33/14 33/16 35/00 35/02 35/04 35/06 35/08 35/10 35/12 35/14 35/16 35/18 35/20	Tilling implements with rotary driven tools with tools on horizontal shaft transverse to direction of travel with tools on horizontal shaft parallel to direction of travel with tools on vertical or steeply-inclined shaft Tools; Details, e.g. adaptations of transmissions or gearings Structural or functional features of the tools Arrangement of the tools; Screening of the tools Attaching the tools to the rotating shaft, e.g. resiliently-attached tools with special additional arrangements (A01B 49/00 takes precedence; for sowing or fertilising A01B 49/06) [2] Other machines for working soil (A01B 37/00, A01B 39/00, A01B 77/00 take precedence) with non-rotating tools drawn by animal or tractor with spring tools mounted on tractors with rigid tools with rotating or circulating non-propelled tools with both rotating and non-rotating tools Tools; Details

27/20		5 0 /0 //	
35/28	. Rotating tools; Mounting rotating tools	59/041	preventing or limiting side-play of implements
35/30	Undercarriages (A01B 23/04 takes precedence) [2]	50/042	(preventing overstrain A01B 61/00) [2] . having pulling means arranged on the rear part of
35/32	. with special additional arrangements	59/042	the tractor
37/00	Devices for loosening soil compacted by wheels or the	59/043	supported at three points, e.g. by quick-release
	like	377043	couplings (A01B 59/06 takes precedence)
20./00	04	59/044	having pulling means arranged on the middle part
39/00	Other machines specially adapted for working soil on which crops are growing	57,011	of the tractor
39/02	with non-rotating tools	59/046	having pulling or pushing means arranged on the
39/02	drawn by animal or tractor		side of the tractor
39/04	Self-propelled machines	59/048	having pulling or pushing means arranged on the
39/08	with rotating tools		front part of the tractor
39/08	with oscillating tools with oscillating tools	59/06	 for machines mounted on tractors
39/10	for special purposes	61/00	Devices for, or parts of, agricultural machines or
39/12	for working ridges	01/00	implements for preventing overstrain (preventing
39/16	for working in vineyards, or the like		overstrain in vehicle connections, in general B60D;
39/18	for working in vineyards, or chards, or the fixe		preventing overstrain in couplings per se F16D) [3]
39/19	Rod weeders, i.e. weeder with rotary rods	61/02	. of the coupling devices between tractor and machine
37/17	propelled beneath the soil surface	61/04	. of the connection between tools and carrier beam or
39/20	. Tools; Details		frame
39/22	. Tools; Mounting tools	63/00	Lifting or adjusting devices or arrangements for
39/24	. Undercarriages (A01B 23/04 takes precedence) [2]	03/00	agricultural machines or implements (lifting
39/26	. Arrangements for protecting plants		mechanisms for the cutter-bar of a mower A01D 34/24;
39/28	with special additional arrangements (A01B 49/00		adjusting devices for the cutter-bar of a mower
	takes precedence) [2]		A01D 34/28; constructional features of lifting devices
44.100			<u>per se</u> B66F) [3]
41/00	Thinning machines	63/02	. for implements mounted on tractors
41/02	with oscillating tools	63/04	Hand devices; Hand devices with mechanical
41/04	with rotating tools	50 (0 5	accumulators, e.g. springs
41/06	• with electric, e.g. photo-electric control of thinning	63/06	operated mechanically by tractor motor
	operations	63/08	operated by the movement of the tractor
43/00	Gatherers for removing stones, undesirable roots or	63/10	operated by hydraulic or pneumatic means
	the like from the soil, e.g. tractor-drawn rakes [4]	63/102	characterised by the location of the mounting
45/00	Machines for treating meadows or lawns	62/104	on the tractor, e.g. on the rear part
45/02	. for aerating	63/104	on the middle part, i.e. between front and rear wheels
45/04	. for cutting sods or turf	63/106	on the side
T 3/0 T	. Tor Cutting sous or turn	63/108	on the front part
47/00	Soil-working with electric potential applied between	63/11	for controlling weight transfer between
	tools and soil	03/11	implements and tractor wheels [2]
49/00	Combined machines (auxiliary devices attached to	63/111	regulating working depth of implements
	machines of a different kind, e.g. harrows attached to	63/112	to control draught load, i.e. tractive force [2]
	ploughs, see the relevant groups for the machines)	63/114	to achieve a constant working depth [2]
49/02	. with two or more soil-working tools of different kind	63/118	Mounting implements on power-lift linkages
49/04	. Combinations of soil-working tools with non-soil-		(A01B 59/043 takes precedence; preventing or
	working tools, e.g. planting tools		limiting side-play of implements A01B 59/041;
49/06	for sowing or fertilising		preventing overstrain A01B 61/00) [2]
		63/12	operated by an electric motor
	ails or accessories of agricultural machines or	63/14	. for implements drawn by animals or tractors
<u>implemer</u>	ats, in general [3]	63/16	with wheels adjustable relatively to the frame
51/00	Undercarriages specially adapted for mounting-on	63/18	with clutch between Z-type axle and wheel
. • •	various kinds of agricultural tools or apparatus	63/20	with gear and rack
	(general vehicle aspects, see the relevant subclass of	63/22	operated by hydraulic or pneumatic means
	class B60 or B62)	63/24	. Tools or tool-holders adjustable relatively to the
51/02	. propelled by a motor	(2.12.	frame
51/04	. drawn by animal or tractor	63/26	by man-power
59/00	Devices specially adapted for connection between	63/28	operated by the machine or implement
27100	animals or tractors and agricultural machines or	63/30	operated by motor power through a mechanical transmission
	implements (A01B 63/00 takes precedence; vehicle	63/32	. 11 1 1 1
	connections in general B60D; draught assemblies for	03/34	operated by hydraulic or pneumatic means
	animal drawn vehicles, in general B62C 5/00) [3]	67/00	Devices for controlling the tractor motor by
59/02	. for animal-drawn machines		resistance of tools (preventing overstrain A01B 61/00)
59/04	. for machines pulled or pushed by a tractor		

69/00	Steering of agricultural machines or implements; Guiding agricultural machines or implements on a desired track [3]	73/00	Means or arrangements to facilitate transportation of agricultural machines or implements, e.g. folding frames to reduce overall width (arrangements of
69/02	Ridge-marking or like devices; Checkrow wires; Accessories therefor		lifting devices for soil working implements A01B 63/00; vehicles adapted for load transportation or to transport,
69/04	Special adaptations of automatic tractor steering, e.g. electric system for contour ploughing		to carry or to comprise special loads or objects B60P; motor vehicles, trailers B62D) [4]
69/06	Lateral steering of machines by an additional	73/02	. Folding frames [4]
07700	operator	73/04	foldable about a horizontal axis [4]
69/08	Lateral steering of machines derived from the lateral movement of tractor	73/06	foldable about a vertical axis [4]
71/00	Construction or arrangement of setting or adjusting	75/00	Carriers for supporting persons when working in the field, e.g. while thinning beet
	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	76/00	Parts, details or accessories of agricultural machines or implements, not provided for in groups
71/02	. Setting or adjusting mechanisms		A01B 51/00 to A01B 75/00 [8]
71/04	Bearings of rotating parts, e.g. for soil-working discs (bearings in general F16C)	77/00	Machines for lifting and treating soil (biocides, pest repellants or attractants, plant growth regulators
71/06	Special adaptations of coupling means between power take-off and transmission shaft to the		A01N 25/00 to A01N 65/00; fertilisers C05; soil-conditioning or soil-stabilising materials C09K 17/00)
	implement or machine (couplings for transmitting rotation F16D)	79/00	Methods for working soil (essentially requiring the use of particular machines, <u>see</u> the relevant groups for the
71/08	. Means for protecting against dust or the like, or for		machines)
	cleaning agricultural implements (A01B 15/16, A01B 19/10, A01B 23/06 take precedence; screening of rotary driven tilling tools A01B 33/12; screening	79/02	combined with other agricultural processing, e.g. fertilising, planting
A01C	PLANTING ; SOWING ; FERTILISING (combined with agricultural machines or implements, in general A01B 51/00		
<u>Subclass</u>	agricultural machines or implements, in general A01B 51/00 index	to A01B 75/0	00)
	agricultural machines or implements, in general A01B 51/00 index SING	to A01B 75/0	NG9/00, 11/00,
<u>Subclass</u>	index SING Methods	to A01B 75/0	NG
<u>Subclass</u>	index SING Methods	to A01B 75/0	NG9/00, 11/00,
<u>Subclass</u> FERTILI WORK F	index SING Methods	PLANTII	NG
<u>Subclass</u> FERTILI WORK F	index SING Methods	PLANTII	NG
Subclass FERTILI WORK P PLANTII	index SING Methods	PLANTII SOWING	NG
Subclass FERTILI WORK P PLANTII	index SING Methods	PLANTII SOWING	Making or covering furrows or holes for sowing, planting, or manuring (ploughs for making ridges A01B 13/02) Hand tools for making holes for sowing, planting or manuring (transplanting devices for trees
Subclass FERTILI WORK P PLANTII 1/00	index SING Methods	PLANTII SOWING COMMO	Making or covering furrows or holes for sowing, planting, or manuring (ploughs for making ridges A01B 13/02) Hand tools for making holes for sowing, planting or manuring (transplanting devices for trees A01G 23/02) Machines for making or covering holes for sowing or
Subclass FERTILI WORK P PLANTII 1/00 1/02 1/04 1/06	index SING Methods	PLANTII SOWING COMMO	Making or covering furrows or holes for sowing, planting, or manuring (ploughs for making ridges A01B 13/02) Hand tools for making holes for sowing, planting or manuring (transplanting devices for trees A01G 23/02) Machines for making or covering holes for sowing or planting Machines for making or covering drills or furrows for
Subclass FERTILI WORK P PLANTII 1/00 1/02 1/04	index SING Methods	PLANTII SOWING COMMO 5/00 5/04	Making or covering furrows or holes for sowing, planting, or manuring (ploughs for making ridges A01B 13/02) Hand tools for making holes for sowing, planting or manuring (transplanting devices for trees A01G 23/02) Machines for making or covering holes for sowing or planting
Subclass FERTILI WORK P PLANTII 1/00 1/02 1/04 1/06 1/08	index SING Methods	PLANTII SOWING COMMO 5/00 5/04 5/06	Making or covering furrows or holes for sowing, planting, or manuring (ploughs for making ridges A01B 13/02) Hand tools for making holes for sowing, planting (transplanting devices for trees A01G 23/02) Machines for making or covering holes for sowing or planting Machines for making or covering drills or furrows for sowing or planting Machines for both manuring and sowing or both manuring and planting Sowing (arrangements for driving working parts
Subclass FERTILI WORK P PLANTII 1/00 1/02 1/04 1/06 1/08 3/00	index SING Methods	5/00 5/02 5/04 5/08 7/00	Making or covering furrows or holes for sowing, planting, or manuring (ploughs for making ridges A01B 13/02) Hand tools for making holes for sowing, planting (transplanting devices for trees A01G 23/02) Machines for making or covering holes for sowing or planting Machines for making or covering drills or furrows for sowing or planting Machines for both manuring and sowing or both manuring and planting Sowing (arrangements for driving working parts A01C 19/00)
Subclass FERTILI WORK P PLANTII 1/00 1/02 1/04 1/06 1/08 3/00	index SING Methods	PLANTIII SOWING COMMO 5/00 5/02 5/04 5/06 5/08	Making or covering furrows or holes for sowing, planting, or manuring (ploughs for making ridges A01B 13/02) Hand tools for making holes for sowing, planting (transplanting devices for trees A01G 23/02) Machines for making or covering holes for sowing or planting Machines for making or covering drills or furrows for sowing or planting Machines for both manuring and sowing or both manuring and planting Machines for both manuring and sowing parts A01C 19/00) Hand sowing implements
Subclass FERTILI WORK P PLANTII 1/00 1/02 1/04 1/06 1/08 3/00	index SING Methods	5/00 5/00 5/00 5/00 5/00 5/00 5/00 5/00 5/00 5/00 5/08 7/00 7/02	Making or covering furrows or holes for sowing, planting, or manuring (ploughs for making ridges A01B 13/02) Hand tools for making holes for sowing, planting (transplanting devices for trees A01G 23/02) Machines for making or covering holes for sowing or planting Machines for making or covering drills or furrows for sowing or planting Machines for both manuring and sowing or both manuring and planting Sowing (arrangements for driving working parts A01C 19/00)
Subclass FERTILI WORK P PLANTII 1/00 1/02 1/04 1/06 1/08 3/00 3/02	index SING Methods	5/00 5/00 5/00 5/00 5/00 5/02 5/04 5/06 5/08 7/00 7/02 7/02 7/04	Making or covering furrows or holes for sowing, planting, or manuring (ploughs for making ridges A01B 13/02) Hand tools for making holes for sowing, planting (transplanting devices for trees A01G 23/02) Machines for making or covering holes for sowing or planting Machines for making or covering drills or furrows for sowing or planting Machines for both manuring and sowing or both manuring and planting Machines for both manuring and sowing or both manuring and planting Sowing (arrangements for driving working parts A01C 19/00) Hand sowing implements Single-grain seeders with or without suction devices
Subclass FERTILI WORK P PLANTII 1/00 1/02 1/04 1/06 1/08 3/00 3/02	index SING Methods	5/00 5/00 5/00 5/00 5/00 5/02 5/04 5/06 5/08 7/00 7/02 7/04 7/06 7/08	Making or covering furrows or holes for sowing, planting, or manuring (ploughs for making ridges A01B 13/02) Hand tools for making holes for sowing, planting (transplanting devices for trees A01G 23/02) Machines for making or covering holes for sowing or planting Machines for making or covering drills or furrows for sowing or planting Machines for both manuring and sowing or both manuring and planting Machines for both manuring and sowing or both manuring and planting Machines for both manuring and sowing or both manuring and planting Sowing (arrangements for driving working parts A01C 19/00) Hand sowing implements Single-grain seeders with or without suction devices Seeders combined with fertilising apparatus
Subclass FERTILI WORK P PLANTII 1/00 1/02 1/04 1/06 1/08 3/00 3/02 3/04 3/06	index SING Methods	5/00 5/00 5/00 5/00 5/00 5/00 7/00 7/02 7/04 7/06	Making or covering furrows or holes for sowing, planting, or manuring (ploughs for making ridges A01B 13/02) Hand tools for making holes for sowing, planting (transplanting devices for trees A01G 23/02) Machines for making or covering holes for sowing or planting Machines for making or covering drills or furrows for sowing or planting Machines for both manuring and sowing or both manuring and planting Machines for both manuring working parts A01C 19/00) Hand sowing implements Single-grain seeders with or without suction devices Seeders combined with fertilising apparatus (combinations with soil working tools A01B 49/04)

7/14 7/16 7/18 7/20	 Seeders with spoon or bucket wheels Seeders with other distributing devices, e.g. brushes, discs, screws, slides (with endless chains A01C 15/18) Machines for depositing quantities of seed at intervals Parts of seeders for conducting and depositing seed 	15/06 15/08 15/10 15/12 15/14 15/16	 with distributing slots with pushers or stirrers in the slots with reciprocating pushers with movable parts of the receptacle with means for lifting out the fertiliser with means for pushing out the fertiliser, e.g. by a roller
9/00 9/02 9/04 9/06 9/08	Potato planters (combinations with soil-working A01B 49/04) with conveyer belts with bucket wheels with piercing or grasping devices with other distributing devices, e.g. flaps, screws, horizontal turning plates	15/18 17/00 19/00	 with endless chains Fertilisers or seeders with centrifugal wheels (mechanical throwing machines for articles or solid bulk materials, in general B65G 31/00; sand, gravel, or salt spreaders E01C 19/20) [3] Arrangements for driving working parts of fertilisers
11/00 11/02 11/04	Transplanting machines (carriers for supporting persons A01B 75/00; transplanting devices for trees A01G 23/02) for seedlings for deeper setting or shifting of plants	19/02 19/04 21/00	or seeders [4] . by a motor [4] . by a ground-engaging wheel [4] Methods of fertilising (fertilisers C05; soil-conditioning or soil-stabilising materials C09K 17/00)
13/00 14/00	Machines or apparatus for consolidating soil around plants Methods or apparatus for planting not provided for in other groups of this subclass [8]	23/00	Distributing devices specially adapted for liquid manure or other fertilising liquid, including ammonia, e.g. transport tanks, sprinkling wagons (watering fields in general A01G 25/00; spraying or applying liquids or other fluent materials in general B05)
15/00 15/02 15/04	Fertiliser distributors (A01C 7/06 takes precedence; with centrifugal wheels A01C 17/00; arrangements for driving working parts A01C 19/00; sand, gravel or salt spreaders for roads E01C 19/20) [2] . for hand use . using blowers	23/02 23/04	 Special arrangements for delivering the liquid directly into the soil Distributing under pressure; Distributing mud; Adaptation of watering systems for fertilising-liquids

A01D HARVESTING; MOWING

<u>Note</u>

This subclass <u>covers</u> the shredding or pulverising of stubble, e.g. for the purpose of producing mulch, but <u>does not cover</u> other mechanical destruction of unwanted vegetation, which is covered by group A01M 21/02. [7]

Subclass index

HAND IMPLEMENTS	Binders37/00, 39/00
Cutting implements, rakes, forks, others	Headers
Harvesters or mowers	

41/00, 42/00, 43/00

Hand im	<u>plements</u>	19/00	Digging machines with centrifugal wheels, drums, or
1/00	Hand-cutting implements for harvesting (devices for picking apples or like fruits A01D 46/24; hedge	19/02	 spinners with working tools rotating around a horizontal axis arranged transverse to the direction of travel
1/02	trimming means A01G 3/04) Scythes	19/04	. with working tools rotating around a horizontal axis
1/02	. Sickles		arranged parallel to the direction of travel
1/04	. Knives	19/06	with scoop wheels or drums
1/08	Attaching means for blades	19/08	with scoop tine chains
1/10	with fastening by means of eccentric levers	19/10	with receiving screens; Implements for depositing
1/12	with blades adjustable in several ways	19/12	the root crops with working tools arranged on an approximately
1/14	. Handles; Accessories, e.g. scythe baskets, safety	19/12	vertical axis
	devices	19/14	with one screening wheel
3/00	Non-abrasive sharpening devices for scythes, sickles, or the like	19/16 19/18	with several screening wheelswith screen tine chains
3/02	with percussive tools	21 /00	B
3/04	with pressing jaws	21/00	Digging machines with potato-picking implements
3/06	with pressing rollers or pressing discs	21/02	with picking tools moved up-and-down
3/08	Details, e.g. scythe anvils, scythe guides	21/04	with rotating picking tools
5/00	Containers for whetstones for use during harvesting	23/00 23/02	Topping machines . cutting the tops before being lifted
7/00	Rakes (mowers convertible to rakes or capable of	23/04	. cutting the tops after being lifted
	raking A01D 42/02; mowers combined with rakes	23/06	 with collecting and depositing devices for the tops;
	A01D 43/02)		Devices for protecting the tops against damage
7/02	 with tines rigidly connected to the rake-bar 	25/00	Lifters for beet or like crops
7/04	• with adjustable rake-bar	25/02	. Machines with rigid tools
7/06	 with tines specially shaped or attached 	25/04	Machines with moving or rotating tools
7/08	 with exchangeable tines 	23/04	· Machines with moving of founting tools
7/10	 combined with strippers, grippers, or the like 	27/00	Machines with both topping and lifting mechanisms
9/00	Forks	27/02	. with rigid tools
9/02	with tines rigidly connected to the handle	27/04	. with moving or rotating tools
9/04	• with exchangeable tines	29/00	Harvesters for peanuts
9/06	• combined with strippers, grippers, or the like		•
44.00		31/00	Other digging harvesters
11/00	Other hand implements (devices for picking apples or like fruits A01D 46/24)	31/02	 combined with other agricultural machines, e.g. drilling, planting, hay-harvesting machines
11/02	. for lifting or cropping beet, potatoes, or other root	33/00	Accessories for digging harvesters
11/04	for handling root grope, a grobovele, forth like	33/02	Foliage-separating mechanisms
11/04	 for handling root crops, e.g. shovels, fork-like shovels 	33/04	Stone-separating mechanisms
11/06	Combined implements, e.g. fork and rake	33/06	. Haulm-cutting mechanisms
11, 00	Comomou imprementa, eig. form und fund	33/08	 Special sorting and cleaning mechanisms
Machines	s for harvesting root crops	33/10	. Crop collecting devices, with or without weighing
			apparatus
13/00	Diggers, e.g. potato ploughs	33/12	 Driving mechanisms, with or without motor
15/00	Digging machines with sieve graters but without conveying mechanisms	33/14	. Lifting or lowering mechanisms for the tools
15/02	. with rigid grates	<u>Harveste</u>	ers or mowers for grass, cereals or other crops
15/04	with moving or vibrating grates	34/00	Mowers (combined with apparatus performing additional operations while mowing A01D 37/00 to
17/00	Digging machines with sieving and conveying mechanisms		A01D 41/00, A01D 43/00; convertible to apparatus for purposes other than mowing or capable of performing
17/02	with conveyers arranged above the sieving device		operations other than mowing A01D 42/00); Mowing
17/04	with conveyers arranged below the sieving device		apparatus of harvesters [4]
17/06	with rollers or disc screens	Note	
17/08	with shaker type screens	11016	
$\frac{17/10}{17/12}$	with smooth conveyer belts, lath bands, or rake bands		In this group, it is desirable to add the indexing code of
17/12	with bucket conveyers		group A01D 101/00, relating to the use of mowers. [8]
17/14	with cylindrical screenswith a conveyer spiral		
17/18	with a conveyer spiral without a conveyer spiral	34/01	. characterised by features relating to the type of
17/18	with several co-operating screens		cutting apparatus [7]
17/20	 with several co-operating screens with several co-operating sifter bands 	34/02	having reciprocating cutters [4,7]
1//22		34/03	by an animal or a vehicle [4]

24/24	
34/04 with cutters at the front [4]	34/63 having cutters rotating about a vertical
34/06 with cutters at the side [4]	axis [4,7]
34/07 with cutters at the back [4]	34/64 mounted on a vehicle, e.g. a tractor, or
34/08 hand-guided by a walking operator [4,7]	drawn by an animal or a vehicle (A01D 34/695 takes precedence) [4,7]
34/10 with motor driven cutters or wheels [4]	34/66 with two or more cutters [4]
34/125 with means for discharging mown material	
(A01D 57/26 to A01D 57/30 take precedence;	34/67 hand-guided by a walking operator [4,7]
combined with means for gathering or loading	34/68 with motor driven cutters or wheels [4]
mown material A01D 43/06) [7]	34/685 with two or more cutters [7]
34/13 Cutting apparatus [4]	34/69 with motor driven wheels [7]
34/135 having oppositely movable cooperating	34/695 supported by an air cushion [7]
knife-bars [7]	34/71 with means for discharging mown material
34/14 Knife-bars [4]	(A01D 57/26 to A01D 57/30 take
34/16 Guides for the knife-bar in the ledger-	precedence; combined with means for
plate [4]	gathering or loading mown material
34/17 Holding-down devices for the knife [4]	A01D 43/06) [7]
34/18 Guard fingers; Ledger-plates [4]	34/73 Cutting apparatus [4]
34/20 Ledger-plate bars [4]	34/74 Cutting-height adjustment [4]
34/22 Shoes therefor [4]	34/76 Driving mechanisms for the cutters [4]
34/23 with additional vertical cutter-bar [4]	34/77 actuated by advance of the machine [4]
34/24 Lifting devices for the cutter-bar [4]	34/78 electric [4]
34/26 manually actuated [4]	34/80 fluid [4]
34/27 Devices for disengaging the knife-driving	34/81 Casings; Housings (A01D 34/71 takes
mechanisms during the lifting of the cutter-	precedence) [7]
bar [4]	34/82 Other details [4]
34/28 Adjusting devices for the cutter-bar [4]	34/83 having cutting members on endless belts or
34/30 Driving mechanisms for the cutters [4]	sprocket chains [4]
34/32 Connecting-rods for knife-driving	34/835 . specially adapted for particular purposes [7]
mechanisms [4]	34/84 for edges of lawns or fields, e.g. for mowing close
34/33 Devices for connecting the rod to the	to trees or walls (edge trimmers A01G 3/00) [4]
knife-bar [4]	34/86 for use on sloping ground, e.g. on embankments
34/34 Devices for connecting the rod to the	(undercarriages or frames specially adapted for
34/34 Devices for connecting the rod to the	(undercarriages or frames specially adapted for harvesters or mowers A01D 67/00; control
crank-pin of the driving mechanism [4]	
crank-pin of the driving mechanism [4] 34/36 actuated by advance of the machine [4]	harvesters or mowers A01D 67/00; control
crank-pin of the driving mechanism [4] 34/36 actuated by advance of the machine [4] 34/37 electric [4]	harvesters or mowers A01D 67/00; control mechanisms for harvesters or mowers when
crank-pin of the driving mechanism [4] 34/36 actuated by advance of the machine [4] 34/37 electric [4] 34/38 fluid [4]	harvesters or mowers A01D 67/00; control mechanisms for harvesters or mowers when moving on slopes A01D 75/28) [4,7] 34/90 for carrying by the operator [7]
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42/00	Mowers convertible to apparatus for purposes other than mowing; Mowers capable of performing operations other than mowing (mowers combined with apparatus performing additional operations while mowing A01D 43/00) [7]	46/18 46/20 46/22 46/24	 mounted on rotary carrier [2] Platforms with lifting and lowering devices [2] Baskets or bags attachable to the picker [2] Devices for picking apples or like fruit (A01D 46/26
42/02	. Raking [7]	46/247	takes precedence) [2,7] . Manually operated fruit-picking tools
42/04	. Soil working [7]	70/247	(A01D 46/253 takes precedence) [7]
42/06	. Sweeping or cleaning lawns or other surfaces [7]	46/253	Portable motorised fruit pickers [7]
42/08	Sweeping snow [7]	46/26	. Devices for shaking trees or shrubs; Fruit catching
43/00	Mowers combined with apparatus performing additional operations while mowing (A01D 37/00, A01D 39/00, A01D 41/00 take precedence) [3]	46/28	devices to be used therewith (A01D 46/28 takes precedence) [3,7] Vintaging machines, i.e. grape harvesting
43/02	. with rakes	46/30	machines [3] Robotic devices for individually picking crops [7]
43/04	with haymakers, e.g. tedders	40/30	. Robotic devices for individually picking crops [7]
43/06	 with means for collecting, gathering or loading mown material [1,7] 	47/00	Headers
43/063	 in or into a container carried by the mower; Containers therefor (A01D 43/077 takes precedence) [7] 	51/00	Apparatus for gathering together crops spread on the soil, e.g. apples, beets, nuts, potatoes
43/07	in or into a trailer (A01D 43/077 takes precedence) [7]		ents of harvesters or mowers for grass or cereals [7]
43/073	with controllable discharge spout [7]	57/00	Delivering mechanisms for harvesters or mowers
43/077	with auxiliary means, e.g. fans, for transporting	57/01	 Devices for leading crops to the mowing apparatus [7]
12 /00	the mown crop [7]	57/02	using reels
43/08 43/10	with means for cutting up the mown crop	57/03	with supplementary controlled movement of the
43/10	 with means for crushing or bruising the mown crop with soil-working implements, e.g. ploughs 		crop-engaging members, e.g. of the tines [3]
43/14	. with dispensing apparatus, e.g. for fertilisers,	57/04	Arrangements for changing the position of the reels
43/16	herbicides or preservatives [7] . with lawn edgers [7]	57/05	Detachable reels for converting a mower into a harvester [7]
44/00	Harvesting of underwater plants, e.g. harvesting of	57/06	using endless conveyers
11700	seaweed [2]	57/08	using swinging rakes
44/02	. of laver [2]	57/10	using fans
45/00	Harvesting of standing crops (A01D 44/00 takes	57/12	. Rotating rakes
10,00	precedence; threshing machines adapted for special	57/14	Single-platform rakes
	crops, threshing devices for combines adapted for	57/16 57/18	Tilting tablesBunching devices, e.g. with tipping bars
45 /00	special crops A01F 11/00) [2]	57/18	with conveyer belts
45/02 45/04	of maizeof rice	57/22	• for standing stalks
45/04	of flax	57/24	. Grass-boards
45/10	of sugar cane	57/26	. Plates arranged behind the cutter-bar for guiding the
45/16	. of tobacco	77 /20	cut grass or straw
45/22	. of beans	57/28	. Windrower attachments with tines
45/24	. of peas	57/30	Rotating attachments for forming windrows
45/26	of cabbage or lettuce [2]	59/00	Equipment for binding harvested or mown produce
45/28	of spinach	50./00	(specially adapted for baling presses A01F 15/14)
45/30	. of grass-seeds or like seeds	59/02	. Packers
46/00	Picking of fruits, vegetables, hops, or the like;	59/04 59/06	Knotters Needles
	Devices for shaking trees or shrubs [2,3]	59/08	Discharge arms
Note		59/10	 Devices for separating cohering sheaves
	G 4047 44/00 1	59/12	. Containers for the twine
	Group A01D 46/30 takes precedence over groups A01D 46/02 to A01D 46/28 [7]	59/14	. Sheaf counters
		61/00	Elevators or conveyers for binders or combines
46/02	. of hops [2]	61/02	. Endless belts
46/04	. of tea [2]	61/04	. Chains
46/06	of coffee [2]	63/00	Outside dividers
46/08 46/10	of cotton [2]pneumatically [2]	63/02	. Rotating dividers
46/10	using boll-from-plant strippers [2]	63/04	. Non-rotating dividers
46/14	using bon-from-plant surppers [2] using lint-from-plant pickers [2]	65/00	Grain-crop lifters
46/16	using rotary or oscillating spindles [2]	65/02	. Lifting fingers

65/04	 with revolving staffs 	78/04	the tine-carrying members moving obliquely or at
65/06	 Lifting devices arranged on the inner side of the cutter-bar 		right angles to the direction of travel of the machine [3]
65/08	. Guard attachments for the wheels	78/06	. with tine-carrying endless chains or belts [3]
		78/08	. with tine-carrying rotary heads or wheels [3]
67/00	Undercarriages or frames specially adapted for harvesters or mowers (coupling arrangements between	78/10	the tines rotating about a substantially vertical axis [3]
	animal or tractor and harvester or mower A01B 59/00); Mechanisms for adjusting the frame (adjusting	78/12	the tines having an additional movement superimposed upon their rotary movement [3]
67.100	devices for the cutter-bar A01D 34/28); Platforms [3]	78/14	the tines rotating about a substantially horizontal
67/02	Protection against weather Seats		axis [3]
67/04	. Seals	78/16	with positive drive of the heads or wheels [3]
69/00	Driving mechanisms or parts thereof for harvesters	78/18	. of the reciprocating tine type [3]
	or mowers (driving mechanisms for the cutters of mowers or harvesters A01D 34/00)	78/20	 the tines reciprocating in a direction parallel to the direction of travel of the machine [3]
69/02	. electric	00.100	
69/03	. fluid [4]	80/00	Parts or details of haymakers (parts or details specific
69/06	. Gearings		for one type of machine, <u>see</u> the relevant groups for these machines) [3]
69/08	. Clutches	80/02	. Tines; Attachment of tines [3]
69/10	. Brakes	80/02	. Thies, Attachment of thies [3]
69/12	. Lubrication	82/00	Crop conditioners, i.e. machines for crushing or
0,7,			bruising stalks (mowers combined with means for
55 (00			crushing or bruising the mown crop A01D 43/10) [3]
75/00	Accessories for harvesters or mowers	82/02	. Rollers for crop conditioners [6]
75/02	. Implements for collecting grain crop	04/00	TT 1
75/04	. Sheaf carriers	84/00	Haymakers not provided for in a single one of groups A01D 76/00 to A01D 82/00 (haymakers combined with
75/06	. Sheaf shockers or stookers		mowers A01D 43/04)
75/08	. Sharpening apparatus fixed to the harvester or mower	84/02	with flexible tools [6]
75/10	 Devices for reconditioning the knife-bar, e.g. removing the knife from its backing 	04/02	. With review tools [6]
75/12	Instruments for removing the knife-bar from the cutter	85/00	Arrangements for making or setting stacks
75/16	 Implements for laying-out bands for sheaves 	87/00	Loaders for hay or like field crops (combined with
75/18	 Safety devices for parts of the machines 	97 /00	mowers A01D 43/06)
75/20	 Devices for protecting men or animals 	87/02	with conveyer belts
75/24	. Special devices for harvesters or mowers drawn by	87/04	with rakes feeding the crop to the conveyer
	animals	87/06	with oscillating or reciprocating rake-bars
75/26	 Front trucks; Axle-pivot steering of front trucks 	87/08	with sweep rakes
75/28	. Control mechanisms for harvesters or mowers when	87/10	. with blowers
	moving on slopes; Devices preventing lateral pull	87/12	. Loaders for sheaves, stacks, or bales
75/30	 Arrangements for trailing two or more harvesters or mowers 	89/00	Pick-ups for loaders, chaff-cutters, balers, field- threshers, or the like
	G 194 F21	90/00	Vehicles for carrying harvested crops with means for
	ers; Crop conditioners [3]	90/00	selfloading or unloading (combined with mowers
<u>Note</u>			A01D 43/06) [2]
	In groups A01D 76/00 to A01D 87/00, the following	90/02	. Loading means [2]
	terms are used with the meanings indicated:	90/04	with additional cutting means [2]
	 "hay" includes all mown forage crop in a dry or 	90/06	with chaff-cutters used as loading and cutting
	partially dry state;	00/00	means (A01D 43/08 takes precedence) [2]
	- "haymakers" covers all apparatus working on mown	90/08	with bale-forming means additionally used for
	forage crop lying on the ground with the intention to		loading; with means for picking-up bales and transporting them into the vehicle [2]
	make hay, with the exception of "rakes" which are covered by group A01D 7/00. [3]	90/10	. Unloading means [2]
	covered by group AOID 7/00. [3]	90/10	 with additional devices or implements (arrangements
5 6 (00	TT 1 141 21 21 4 22 141	90/12	of coupling devices, A01B 59/00) [2]
76/00	Haymakers with tines that are stationary with	90/14	Adaptations of gearing for driving, loading or
	respect to the machine during operation but that may be liftable for dumping (haymakers combined	<i>)</i> 0/14	unloading means [2]
	with mowers A01D 43/04) [3]	90/16	. self-propelled [2]
	waa mewelellelb is/o// [e]	<i>707</i> 10	· sen propened [2]
78/00	Haymakers with tines moving with respect to the	91/00	Methods for harvesting agricultural products
	machine (haymakers combined with mowers		(essentially requiring the use of particular machines, see
F 0 (***	A01D 43/04) [3]		the relevant groups for the machines)
78/02	with tine-carrying bars or equivalent members which	91/02	. Products growing in the soil
	interconnect heads rotating about horizontal axes,	91/04	Products growing above the soil (fruit, hops
	e.g. of rotary-drum type [3]		A01D 46/00)

93/00 Harvesting apparatus not provided for in other groups of this subclass [2009.01]

<u>Indexing scheme associated with group A01D 34/00, relating to</u> the use of mowers. [6]

101/00 Lawn-mowers [6]

A01F THRESHING (combines A01D 41/00); BALING OF STRAW, HAY OR THE LIKE; STATIONARY APPARATUS OR HAND TOOLS FOR FORMING OR BINDING STRAW, HAY OR THE LIKE INTO BUNDLES; CUTTING OF STRAW, HAY OR THE LIKE; STORING AGRICULTURAL OR HORTICULTURAL PRODUCE (arrangements for making or setting stacks in connection with harvesting A01D 85/00)

Subclass index

<u>Subclass</u>	<u>index</u>		
THRESH	IING	ACCESS	ORIES FOR THRESHING
	Functional types of apparatus	MACHIN	NES OR BALING PRESSES17/00, 19/00,
	Special applications11/00		21/00
	Details	STORING	G AGRICULTURAL OR
DALING	F OF STRAW, HAY OR THE LIKE1/00, 13/00,	HORTIC	ULTURAL PRODUCE25/00
BALING	15/00 15/00	MACHIN	IES OR IMPLEMENTS FOR
	13/00	CUTTING	G STRAW, HAY OR THE LIKE3/00, 29/00
			_
1/00	Stationary apparatus or hand tools for forming or	12/30	Straw separators
	binding straw, hay or the like into bundles (baling	12/32	with shaker screens or sieves
	apparatus or presses A01F 13/00, A01F 15/00; mobile binders for use in the field A01D 37/00,	12/34	Sieve elements; Linings for shakers
	A01D 39/00) [3]	12/36	Sieve elements specially adapted for
1/02	. Hand-operated tools		handling short straw
1/04	Fastening or tying devices	12/38	with juxtaposed and independently-moved shaker
1/04	Ties for bundles	12/205	bars or the like
1/00	. Thes for buildies	12/385	with endless straw-conveying surface [5]
3/00	Hand-operated implements for cutting-up straw, hay	12/39	with straw carriers in the form of rotors or
	or the like (mechanically-driven straw cutters	12/205	drums [5]
	A01F 29/00)	12/395	Conical or cylindrical straw separators with internal working surface [5]
Threshin	ng	12/40	. Arrangements of straw crushers or cutters
	<u>-</u>	12/42	 Apparatus for removing awns from the grain
5/00	Hand-operated implements for threshing	12/44	. Grain cleaners; Grain separators
7/00	Threshing apparatus	12/46	. Mechanical grain conveyers
7/02	with rotating tools (threshing cylinders or concaves	12/48	. Air conduits or blowers for grain
1702	A01F 12/18)	12/50	. Sack-filling devices; Counting or weighing devices
7/04	• with axles transverse to the feeding direction	12/52	. Arrangements for returning unthreshed grain to the
7/06	with axles in line with the feeding direction		threshing device
7/70	. with flails [2010.01]	12/54	. Arrangements for collecting or removing dust
///0	· with fitted [2010.01]	12/56	. Driving mechanisms for the threshing parts
11/00	Threshing apparatus specially adapted for maize;	12/58	 Control devices; Brakes; Bearings
	Threshing apparatus specially adapted for particular	12/60	. Grain tanks
	crops other than cereals		
11/02	. for flax	Baling of	straw, hay or the like
11/04	. for clover or like seeds, e.g. lucern	<u></u>	
11/06	. for maize, e.g. removing kernels from cobs	13/00	Hand-operated baling apparatus
11/08	. for palm fruit, e.g. releasing the fruit from the stalk	15/00	Baling presses for straw, hay or the like [3]
12/00	Parts or details of threshing apparatus (devices, other	15/02	• with press-boxes
	than safety devices for feeders, for protecting human	15/04	. Plunger presses
	beings A01D 75/20, A01F 21/00)	15/06	with double-action plunger
12/10	. Feeders	15/07	 Rotobalers, i.e. machines for forming cylindrical
12/12	without band-cutters		bales by winding and pressing [5]
12/14	with band-cutters	15/08	. Details
12/16	Safety devices	15/10	Feeding devices for the crop material [3]
12/18	. Threshing devices	15/12	Feeding devices for the ties
12/20	Threshing cylinders with ribs	15/14	Tying devices specially adapted for baling presses
12/22	Threshing cylinders with teeth	15/16	Division blocks
12/24	One-part threshing concaves	15/18	Endless belts, rolls, or the like
12/26	Multi-part threshing concaves		
12/28	Devices for adjusting the concaves		

	ries for threshing machines or baling presses	25/16	. Arrangements in forage silos
	res for threshing machines of build presses	20,10	<u> </u>
		25/18	Loading or distributing arrangements [2]
17/00	Straw conveyers for threshing machines or baling		
	presses	25/20	Unloading arrangements [2]
7/02	. Mechanical conveyers	25/22	Ventilating arrangements [2]
7/04	Pneumatic conveyers	29/00	Cutting apparatus specially adapted for cutting hay
.,, .	·	27/00	straw or the like (mowers combined with means for
19/00	Devices for securing threshing machines or baling		cutting up the mown crop A01D 43/08) [3]
	presses to the ground, e.g. for compensating for	20 /01	
	unevenness of the ground	29/01	. specially adapted for being mounted on or drawn by
		/	tractor, e.g. field choppers [7]
21/00	Devices for protecting human beings for threshing	29/02	. having rotating knives with their cutting edges in a
	machines or baling presses (in combines A01D 75/20;		plane perpendicular to their rotational axis [3]
	for feeders for threshing apparatus A01F 12/16)	29/04	with feeding direction transverse to axis [3]
		29/06	 having rotating knives with their cutting edges on a
25/00	Storing agricultural or horticultural produce;		cylinder surface, e.g. of the helical-type [3]
	Hanging-up harvested fruit (maturing fruit	29/08	 having reciprocating knives [3]
	A23N 15/06; arrangements in barns for preparatory	29/09	. Details [2010.01]
	treatment of tobacco A24B 1/02; packing or storing	29/10	. Feeding devices [3]
	hops C12C 3/04) [3]	29/12	 Discharge means (loaders for hay or like field cr
25/02	. Clamps; Pits	29/12	having blowers A01D 87/10) [3]
		20/14	
25/04	. Stacks, ricks, or the like	29/14	Drives [3]
25/08	Ventilating means	29/16	Safety devices, e.g. emergency brake
25/10	Shelters		arrangements [3]
25/12	 Racks for drying purposes 	29/18	for protecting human beings [3]
25/13	. Coverings (A01F 25/14 takes precedence) [3]	29/20	(transferred to A01F 29/09)
25/14	. Containers specially adapted for storing [3]	29/22	Arrangement of knife sharpening devices [3]
	s index		
	ATION IN GENERAL		G OR HANDLING FLOWERS,
ULTIV	ATION IN GENERAL	HANDLI	ING FRUIT3/00, 5/
ULTIV. YDRO	ATION IN GENERAL	HANDLI FOREST	ING FRUIT3/00, 5// IRY23//
ULTIV YDRO OIL	ATION IN GENERAL	HANDLI FOREST	ING FRUIT
ULTIVA YDRO OIL	ATION IN GENERAL	HANDLI FOREST	ING FRUIT
ULTIV YDRO DIL	ATION IN GENERAL	HANDLI FOREST	ING FRUIT
JLTIV. YDRO DIL JLTIV. ROTEC	ATION IN GENERAL	HANDLI FOREST WATERI	NG FRUIT
JLTIV. YDRO DIL JLTIV. ROTEC	ATION IN GENERAL	HANDLI FOREST WATERI 3/04	. Apparatus for trimming hedges, e.g. hedge shears [
ULTIVA YDRO DIL ULTIVA ROTEC	ATION IN GENERAL 1/00, 3/00, 7/00, 9/00, 16/00, 17/00 PONICS, CULTIVATION WITHOUT 31/00 ATION OF SEAWEED 33/00 CTING PLANTS 11/00, 13/00, 15/00 Horticulture; Cultivation of vegetables (labels or name-plates G09F 3/00, G09F 7/00)	HANDLI FOREST WATERI 3/04 3/047	. Apparatus for trimming hedges, e.g. hedge shears [6]
YDRO DIL ULTIV ROTEC 1/00	ATION IN GENERAL	3/04 3/047 3/053	. Apparatus for trimming hedges, e.g. hedge shears [6] motor-driven [6]
YDRO DIL ULTIV ROTEC	ATION IN GENERAL 1/00, 3/00, 7/00, 9/00, 16/00, 17/00 PONICS, CULTIVATION WITHOUT 31/00 ATION OF SEAWEED 33/00 CTING PLANTS 11/00, 13/00, 15/00 Horticulture; Cultivation of vegetables (labels or name-plates G09F 3/00, G09F 7/00)	HANDLI FOREST WATERI 3/04 3/047	. Apparatus for trimming hedges, e.g. hedge shears [6]
YDRO DIL ULTIV ROTEC 1/00	ATION IN GENERAL	3/04 3/047 3/053	. Apparatus for trimming hedges, e.g. hedge shears [6] . motor-driven [6] . Hand-held edge trimmers or shears for lawns
YDRO DIL ULTIV ROTEC 1/00 1/02 1/04	ATION IN GENERAL 1/00, 3/00, 7/00, 9/00, 16/00, 17/00 PONICS, CULTIVATION WITHOUT 31/00 ATION OF SEAWEED 33/00 CTING PLANTS 11/00, 13/00, 15/00 Horticulture; Cultivation of vegetables (labels or name-plates G09F 3/00, G09F 7/00) Cultivation of asparagus Cultivation of mushrooms (composts or fertilisers for cultivating mushrooms C05)	3/04 3/047 3/053 3/06	. Apparatus for trimming hedges, e.g. hedge shears [6] . portable [6] . motor-driven [6] . Hand-held edge trimmers or shears for lawns (mowers combined with lawn edgers A01D 43/16)
YDRO DIL ULTIV ROTEC 1/00 1/02 1/04 1/06	ATION IN GENERAL	3/04 3/04 3/053 3/06 3/08	. Apparatus for trimming hedges, e.g. hedge shears [6] . portable [6] . motor-driven [6] . Hand-held edge trimmers or shears for lawns (mowers combined with lawn edgers A01D 43/16) . Other tools for pruning, branching or delimbing standing trees [2,5]
ULTIV. YDRO DIL ULTIV. ROTEC 1/00 1/02 1/04 1/06 1/08	ATION IN GENERAL	3/04 3/047 3/053 3/06	. Apparatus for trimming hedges, e.g. hedge shears [6] . portable [6] . motor-driven [6] . Hand-held edge trimmers or shears for lawns (mowers combined with lawn edgers A01D 43/16) . Other tools for pruning, branching or delimbing
ULTIV. YDRO DIL ULTIV. ROTEC 1/00 1/02 1/04 1/06 1/08	ATION IN GENERAL 1/00, 3/00, 7/00, 9/00, 16/00, 17/00 PONICS, CULTIVATION WITHOUT 31/00 ATION OF SEAWEED 33/00 CTING PLANTS 11/00, 13/00, 15/00 Horticulture; Cultivation of vegetables (labels or name-plates G09F 3/00, G09F 7/00) Cultivation of asparagus Cultivation of mushrooms (composts or fertilisers for cultivating mushrooms C05) Grafting (grafting-wax A01N 3/04) Edging for beds, lawns, or the like, e.g. using tiles Tools for cultivating turf; Sweeping apparatus for lawns; Gardens rollers (machines for treating	3/04 3/04 3/053 3/06 3/08	. Apparatus for trimming hedges, e.g. hedge shears [6] . portable [6] . motor-driven [6] . Hand-held edge trimmers or shears for lawns (mowers combined with lawn edgers A01D 43/16) . Other tools for pruning, branching or delimbing standing trees [2,5]
ULTIV. YDRO OIL ULTIV. ROTEC 1/00 1/02 1/04 1/06 1/08	ATION IN GENERAL	3/04 3/04 3/053 3/06 3/08	. Apparatus for trimming hedges, e.g. hedge shears [portable [6] motor-driven [6] motor-driven [6] Hand-held edge trimmers or shears for lawns (mowers combined with lawn edgers A01D 43/16) . Other tools for pruning, branching or delimbing standing trees [2,5] Floral handling . Apparatus for binding bouquets or wreaths . Mountings for wreaths, or the like; Racks or holder
ULTIV. YDRO OIL ULTIV. ROTEC 1/00 1/02 1/04 1/06 1/08	ATION IN GENERAL 1/00, 3/00, 7/00, 9/00, 16/00, 17/00 PONICS, CULTIVATION WITHOUT 31/00 ATION OF SEAWEED 33/00 CTING PLANTS 11/00, 13/00, 15/00 Horticulture; Cultivation of vegetables (labels or name-plates G09F 3/00, G09F 7/00) Cultivation of asparagus Cultivation of mushrooms (composts or fertilisers for cultivating mushrooms C05) Grafting (grafting-wax A01N 3/04) Edging for beds, lawns, or the like, e.g. using tiles Tools for cultivating turf; Sweeping apparatus for lawns; Gardens rollers (machines for treating meadows or lawns A01B 45/00; lawn-mowers A01D 34/00)	3/04 3/04 3/047 3/053 3/06 3/08 5/00 5/02 5/04	. Apparatus for trimming hedges, e.g. hedge shears [portable [6] motor-driven [6] . Hand-held edge trimmers or shears for lawns (mowers combined with lawn edgers A01D 43/16) . Other tools for pruning, branching or delimbing standing trees [2,5] Floral handling . Apparatus for binding bouquets or wreaths . Mountings for wreaths, or the like; Racks or holder for flowers
ULTIV. YDRO DIL ULTIV. ROTEC 1/00 1/02 1/04 1/06 1/08 1/12	ATION IN GENERAL	3/04 3/04 3/053 3/06 3/08 5/00 5/02	. Apparatus for trimming hedges, e.g. hedge shears [4] . portable [6] . motor-driven [6] . Hand-held edge trimmers or shears for lawns (mowers combined with lawn edgers A01D 43/16) . Other tools for pruning, branching or delimbing standing trees [2,5] Floral handling . Apparatus for binding bouquets or wreaths . Mountings for wreaths, or the like; Racks or holder for flowers . Devices for preserving flowers (chemical substance)
YDRO DIL ULTIV. ROTEC 1/00 1/02 1/04 1/06 1/08 1/12	ATION IN GENERAL	3/04 3/04 3/047 3/053 3/06 3/08 5/00 5/02 5/04	. Apparatus for trimming hedges, e.g. hedge shears [portable [6] motor-driven [6] . Hand-held edge trimmers or shears for lawns (mowers combined with lawn edgers A01D 43/16) . Other tools for pruning, branching or delimbing standing trees [2,5] Floral handling . Apparatus for binding bouquets or wreaths . Mountings for wreaths, or the like; Racks or holder for flowers
YDRO DIL ULTIV. ROTEC 1/00 1/02 1/04 1/06 1/08 1/12	ATION IN GENERAL	3/04 3/04 3/047 3/053 3/06 3/08 5/00 5/02 5/04	. Apparatus for trimming hedges, e.g. hedge shears [6] . portable [6] . motor-driven [6] . Hand-held edge trimmers or shears for lawns (mowers combined with lawn edgers A01D 43/16) . Other tools for pruning, branching or delimbing standing trees [2,5] Floral handling . Apparatus for binding bouquets or wreaths . Mountings for wreaths, or the like; Racks or holder for flowers . Devices for preserving flowers (chemical substance A01N 3/02; flower vases A47G 7/06)
ULTIV. YDRO OIL ULTIV. ROTEC 1/00 1/02 1/04 1/06 1/08 1/12	ATION IN GENERAL	3/04 3/04 3/047 3/053 3/06 3/08 5/00 5/02 5/04	. Apparatus for trimming hedges, e.g. hedge shears [6] . portable [6] . motor-driven [6] . Hand-held edge trimmers or shears for lawns (mowers combined with lawn edgers A01D 43/16) . Other tools for pruning, branching or delimbing standing trees [2,5] Floral handling . Apparatus for binding bouquets or wreaths . Mountings for wreaths, or the like; Racks or holder for flowers . Devices for preserving flowers (chemical substance A01N 3/02; flower vases A47G 7/06) Botany in general (cultivation without soil
ULTIV. YDRO DIL ULTIV. ROTEC 1/00 1/02 1/04 1/06 1/08 1/12	ATION IN GENERAL	3/04 3/04 3/047 3/053 3/06 3/08 5/00 5/02 5/04 5/06	. Apparatus for trimming hedges, e.g. hedge shears [6] . portable [6] . motor-driven [6] . Hand-held edge trimmers or shears for lawns (mowers combined with lawn edgers A01D 43/16) . Other tools for pruning, branching or delimbing standing trees [2,5] Floral handling . Apparatus for binding bouquets or wreaths . Mountings for wreaths, or the like; Racks or holder for flowers . Devices for preserving flowers (chemical substance A01N 3/02; flower vases A47G 7/06) Botany in general (cultivation without soil A01G 31/00)
ULTIV. YDRO OIL ULTIV. ROTEC 1/00 1/02 1/04 1/06 1/08 1/12 3/00	ATION IN GENERAL	3/04 3/04 3/047 3/053 3/06 3/08 5/00 5/02 5/04	. Apparatus for trimming hedges, e.g. hedge shears [6] . portable [6] . motor-driven [6] . Hand-held edge trimmers or shears for lawns (mowers combined with lawn edgers A01D 43/16) . Other tools for pruning, branching or delimbing standing trees [2,5] Floral handling . Apparatus for binding bouquets or wreaths . Mountings for wreaths, or the like; Racks or holder for flowers . Devices for preserving flowers (chemical substance A01N 3/02; flower vases A47G 7/06) Botany in general (cultivation without soil A01G 31/00) . Treatment of plants with carbon dioxide (greenhous)
ULTIV. YDRO OIL ULTIV. ROTEC 1/00 1/02 1/04 1/06 1/08 1/12	ATION IN GENERAL	3/04 3/04 3/047 3/053 3/06 3/08 5/00 5/02 5/04 5/06	. Apparatus for trimming hedges, e.g. hedge shears [6] . portable [6] . motor-driven [6] . Hand-held edge trimmers or shears for lawns (mowers combined with lawn edgers A01D 43/16) . Other tools for pruning, branching or delimbing standing trees [2,5] Floral handling . Apparatus for binding bouquets or wreaths . Mountings for wreaths, or the like; Racks or holders for flowers . Devices for preserving flowers (chemical substance A01N 3/02; flower vases A47G 7/06) Botany in general (cultivation without soil

3/025 . . having elongated or extended handles [6] 3/033 . . having motor-driven blades [6]

3/037 . . . the driving means being an electric motor [6]

7/04	Electric or magnetic treatment of plants for promoting growth	23/00	Forestry Transplanting unreating folling or delimbing trace
7/06	Treatment of growing trees or plants, e.g. for	23/02	 Transplanting, uprooting, felling or delimbing trees (delimbing standing trees A01G 3/00) [5]
	preventing decay of wood, for tingeing flowers or wood, for prolonging the life of plants	Note	
9/00	Cultivation of flowers, vegetables or rice in receptacles, forcing-frames or greenhouses (cultivation without soil A01G 31/00)		Tree feeding devices are covered by group B27B 25/00. [5]
9/02	 Receptacles, e.g. flower-pots or boxes (hanging flower baskets, holders or containers for flower-pots A47G 7/00); Glasses for cultivating flowers 	23/04	• Transplanting trees; Devices for grasping the root ball, e.g. stump forceps; Wrappings or packages for transporting trees
9/04	. Flower-pot saucers	23/06	Uprooting or pulling up trees; Extracting or
9/06	Devices for cleaning flower-pots		eliminating stumps [5]
9/08	Devices for filling-up flower-pots; Devices for setting plants in pots	23/08	 Felling trees (axes B26B 23/00; saws, sawing machines B27B)
9/10	 Pots for seedlings; Soil-blocks for seedlings; Means for forming soil-blocks 	23/081	• Feller-bunchers, i.e. with bunching by felling head (A01G 23/083 takes precedence) [5]
9/12	 Supports for plants; Trellis for strawberries or the like (stays for trees, props for vines A01G 17/14) 	23/083 23/085	 Feller-delimbers [5] having the shearing head mounted on a first
9/14	. Greenhouses (cloches A01G 13/04)		boom and the delimbing head mounted on a
9/16	Dismountable or portable greenhouses		second boom [5]
9/18	Greenhouses for treating plants with carbon dioxide or the like	23/087	Shearing apparatus or the like specially adapted for felling trees (A01G 23/081, A01G 23/083,
9/20	. Forcing-frames; Lights	23/089	A01G 23/093 take precedence) [5]
9/22	. Shades or blinds for greenhouses, or the like	23/089	having two or more shears [5] of the percussion type [5]
9/24	 Devices for heating, ventilating, regulating temperature, or watering, in greenhouses, forcing- 	23/091	Sawing apparatus specially adapted for felling
	frames, or the like	23/071	trees (A01G 23/081, A01G 23/083,
9/26	. Electric devices	23/093	A01G 23/093 take precedence) [5] Combinations of shearing, sawing or milling
11/00	Sterilising soil by steam (soil-conditioning or soil-stabilising materials C09K 17/00)	23/095	apparatus specially adapted for felling trees [5] . Delimbers (A01G 23/083 takes precedence;
13/00	Protecting plants (apparatus for the destruction of vermin or noxious animals A01M; use of chemical		manufacture of wood shavings, chips, powder, or the like B27L 11/00) [5]
	materials therefor, composition of protective materials, e.g. grafting wax, A01N)	23/097 23/099	 having a fixed delimbing head [5] Auxiliary devices, e.g. felling wedges [5]
13/02	. Protective coverings for plants; Devices for laying-	23/10	. Tapping of tree-juices, e.g. caoutchouc, gum
	out coverings	23/12	Knives or axes for tapping
13/04	Cloches	23/14	Tapping-spouts; Receptacles for juices
13/06	 Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost (chemical aspects of generating smoke or mist C06D 3/00; heating devices in general, see the appropriate classes, e.g. F24) 	25/00	Watering gardens, fields, sports grounds, or the like (special apparatus or adaptations for fertilising-liquids A01C 23/00; nozzles or outlets, spraying apparatus B05B; gravity flow, open channel irrigation ditch
13/08	. Mechanical apparatus for circulating the air	25/02	systems E02B 13/00) Watering arrangements leasted shave the soil which
13/10	 Devices for affording protection against animals, birds, or other pests (A01M 29/00 takes precedence; traps A01M 23/00; pesticides A01N) [2] 	23/02	 Watering arrangements located above the soil which make use of perforated pipe-lines or pipe-lines with dispensing fittings, e.g. for drip irrigation (perforated pipes per se B05B 1/20) [4]
15/00	Devices or methods for influencing weather conditions (dispersing fog in general E01H 13/00)	25/06	• Watering arrangements making use of perforated pipe-lines located in the soil (perforated pipes per se
16/00	Cultivation of rice (A01G 9/00 takes precedence) [3]	25/00	B05B 1/20; similar arrangements for drainage E02B 11/00)
17/00	Cultivation of hops, vines, fruit trees, or like trees	25/09	 Watering arrangements making use of movable installations on wheels or the like [2]
17/02	• Cultivation of hops or vines	25/14	. Hand watering devices, e.g. watering cans
17/04	• Supports for hops, vines, or trees	25/16	• Control of watering (controlling spraying devices
17/06	Trellis-work		B05B) [2]
17/08	Tools for attaching hops, vines, or boughs to trellis-work; Tying devices	27/00	Salf-acting watering devices a great flavour note
17/10	TT 11 C 1 1 1 1	27/00	Self-acting watering devices, e.g. for flower-pots
17/10	Holders for boughs or branches Tree-bands	21/02	 having a water reservoir, the main part thereof being located wholly around or directly beside the growth
17/14	. Props; Stays		substrate (A01G 27/06 takes precedence) [6]
17/14	Devices for driving-in or pulling-out props	27/04	using wicks or the like [6]
17/18	Means for filling-up wounds in trees	27/06	. having a water reservoir, the main part thereof
1//10			being located wholly around or directly beside the growth substrate [6]

29/00	Root feeders; Injecting fertilisers into the roots	31/04	Hydroponic culture on conveyers [6]
31/00	Hydroponics; Cultivation without soil (A01G 33/00 takes precedence) [2]	31/06	Hydroponic culture on racks or in stacked containers [6]
31/02	 Special apparatus therefor (apparatus for cultivation in receptacles or greenhouses in general A01G 9/00; self-acting watering devices A01G 27/00) 	33/00 33/02	Cultivation of seaweed [2] . of laver [2]
A01H	NEW PLANTS OR PROCESSES FOR OBTAINING TECHNIQUES [5]	G ТНЕМ; I	PLANT REPRODUCTION BY TISSUE CULTURE
Subclass	index		
PROCES	SES	FLOWER	RING PLANTS; GYMNOSPERMS5/00; 7/00
REPROD	DUCTION	OTHER I	PRODUCTS
Processes	<u> </u>	Products	
1/00	Processes for modifying genotypes (A01H 4/00 takes	5/00	Flowering plants, i.e. angiosperms
	precedence) [5]	5/02	. Flowers
1/02	. Methods or apparatus for hybridisation; Artificial	5/04	. Stems
1/04	pollination Processes of selection	5/06	. Roots
1/04	Processes for producing mutations, e.g. treatment	5/08	. Fruits
1,00	with chemicals or with radiation (specific mutations	5/10 5/12	. Seeds
	prepared by genetic engineering on plant cell or plant	3/12	. Leaves
1 /00	tissues C12N 15/00) [5]	7/00	Gymnosperms, e.g. conifers
1/08	Methods or apparatus for producing changes in chromosome number	9/00	Pteridophytes, e.g. ferns, club-mosses, horse-tails
3/00	Processes for modifying phenotypes (A01H 4/00 takes	11/00	Bryophytes, e.g. mosses, liverworts
	precedence) [5]	13/00	Algae (unicellular algae C12N 1/12)
3/02	by controlling duration, wavelength, intensity, or		
3/04	periodicity of illumination by treatment with chemicals	15/00	Fungi; Lichens (fungal micro-organisms C12N 1/14)
4/00	Plant reproduction by tissue culture techniques [5]	17/00	Symbiotic or parasitic combinations including one or more new plants, e.g. mycorrhiza (lichens A01H 15/00)
TREATM MANUFA KNEADI	MANUFACTURE OF DAIRY PRODUCTS (preservation see subclass A23C) index 1/00 to 9/00 G	CHEESE SUBJEC	-MAKING25/00, 27/00 T MATTER NOT PROVIDED FOR ER GROUPS OF THIS SUBCLASS
Milleine		5/013	On-site detection of mastitis in milk [6]
Milking 1/00	Devices or accessories for milking by hand (milking	5/017	. Automatic attaching or detaching of clusters [6]
1/00	stools A47C 9/04)	5/02	with mechanical manipulation of teats
3/00	Milking with catheters	5/04 5/06	with pneumatic manipulation of teatsTeat-cups with one chamber
		5/08	. Teat-cups with two chambers
5/00	Milking machines or devices (A01J 1/00, A01J 3/00 take precedence; milking stations A01K 1/12)	5/10	. Pulsators arranged otherwise than on teat-cups
5/003	. Movable milking machines [6]	5/12	with membranes
5/007		5/14	electromagnetically controlled
	of milking machines [6]	5/16	Teat-cups with pulsating devices
5/01	Milkmeters; Milk flow sensing devices [6]		

7/00	Accessories for milking machines or devices (milking	15/18	Devices for de-aerating
5 (00	stations A01K 1/12) [5,6]	15/20	Incorporation of revolution counters;
7/02	 for cleaning or sanitising milking machines or devices (cleaning the internal surfaces of pipes or 	15/22	Incorporation of alarm devices
	tubes of milking machines B08B 9/027) [6]	15/22	. Lids or covers for butter churns
7/04	for treatment of udders or teats, e.g. for cleaning [6]	15/24 15/25	Beaters for butter churns Means for removing butter from churns or the like
		13/23	Means for removing butter from churns or the like (pumps therefor F04)
9/00	Milk receptacles (containers in general B65D; devices	15/26	. Combined appliances for separating, churning and
0./02	for tilting and emptying of containers B65G 65/23)	10,20	kneading
9/02 9/04	 with straining or filtering devices with cooling arrangements 	15/28	. Driving mechanisms
9/04	 with cooling arrangements with self-closing valve 		
9/08	Holding or supporting devices for milking		g or forming butter; Kneading or forming margarine
<i>71</i> 00	receptacles	<u>or butter</u>	substitutes
9/10	Milking pails connected with milking stools	17/00	Kneading machines for butter, or the like (mixing or
		17700	kneading machines for the preparation of dough
Treatmen	nt of milk or cream		A21C 1/00)
11/00	Apparatus for treating milk (preserving or sterilising	19/00	Hand devices for forming slabs of butter, or the like
11/00	A23C)		,
11/02	Appliances for preventing or destroying foam	21/00	Machines for forming slabs of butter, or the like
	(preventing boiling-over of milk in kitchen cooking	21/02	with extruding arrangements and cutting devices,
	vessels A47J 27/56; preventing foaming in boiling		with or without packing devices
11 /04	apparatus B01B 1/02)	23/00	Devices for dividing bulk butter, or the like
11/04	 Appliances for aerating or de-aerating milk (milk centrifuges B04B) 		
11/06	• Strainers or filters for milk (filtering materials B01D)	Cheese-n	<u>naking</u>
11/08	Holders for strainers or cloth filters	25/00	Cheese-making (coating the cheese A01J 27/02)
11/10	. Separating milk from cream (milk centrifuges B04B)	25/02	. Cheese basins
11/12	Appliances for removing cream	25/04	Devices for cleaning cheese basins
11/14	by raising the level of the milk	25/06	. Devices for dividing curdled milk
11/16	. Homogenising milk (homogenising in general B01F)	25/08	. Devices for removing cheese from basins
13/00	Tanks for treating aroun	25/10	 Devices for removing whey from basins
13/00	Tanks for treating cream	25/11	. Separating whey from curds; Washing the curds
15/00	N. 6 4 1 1 44	25/12	. Forming the cheese
15/00	Manufacturing butter	25/13	Moulds therefor
15/02 15/04	Stationary churns with beating equipment Potenting or oscillating aburns	25/15	. Presses therefor
15/04	 Rotating or oscillating churns with beating equipment which is movable in 	25/16	. Devices for treating cheese during ripening
13/00	respect of the churn wall	27/00	After-treatment of cheese; Coating the cheese
15/08	without beating equipment which is movable in	27/02	. Coating the cheese, e.g. with paraffin wax (applying
	respect of the churn wall		liquids or other fluent materials to surfaces in general
15/10	. Devices for manufacturing butter other than by	25/0/	B05)
	churns	27/04	. Milling or recasting cheese
15/12	with arrangements for making butter in a		
15/14	continuous process	99/00	Subject matter not provided for in other groups of
15/14	Churns with arrangements for making butter by blowing-in air		this subclass [8]
15/16	Details; Accessories		
13/10	· Details, Hecosofies		

A01K ANIMAL HUSBANDRY; CARE OF BIRDS, FISHES, INSECTS; FISHING; REARING OR BREEDING ANIMALS, NOT OTHERWISE PROVIDED FOR; NEW BREEDS OF ANIMALS

Note

This subclass covers:

- equipment for the care, culture or rearing of all animals or for obtaining their products, unless provided for elsewhere,
 e.g. milking A01J, shoeing animals A01L, veterinary devices A61D, devices in connection with harnesses B68B;
- methods of breeding animals or new animal breeds. [5]

Subclass index

Subclass	<u>index</u>		
	HUSBANDRY IN GENERAL,	APICUL	TURE
ESPECIA	LLY CATTLE RAISING		Housing, feeding or drinking
	Housing, feeding or watering		appliances
	devices		Other devices49/00, 51/00
	Taming; muzzles, leads15/00; 25/00;		55/00, 57/00, 59/00
	27/00	PISCICU	JLTURE61/00, 63/00
	Marking; devices for grooming11/00; 13/00	OTHER	REARING OR BREEDING, NEW
	Removing the fleece		S67/00
	Other apparatus17/00 to 23/00, 29/00	FISHING	G WITH NETS 69/00 to 75/00
AVICUL7	TURE; EGGS	ANGLIN	IG
	Housing, feeding or drinking		Rods; reels87/00; 89/00
	appliances		Lines; accessories therefor91/00; 83/00
	Marking		85/00, 93/00, 95/00
	Other apparatus		Accessories 97/00
	41/00, 43/00, 45/00	OTHER	FISHING69/00
			77/00 to 81/00, 99/00
Animal h	usbandry in general, especially cattle-raising	13/00	Devices for grooming or caring of animals,
1/00	Housing animals; Equipment therefor (building		e.g. curry-combs (scissors B26B); Fetlock rings
1700	construction, features of buildings E04; ventilating		(bandages, poultices A61D); Tail-holders (as part of the harness B68B 5/04); Devices for preventing crib-
	buildings F24F)		biting; Washing devices (milking machine accessories
1/01	. Removal of dung or urine (A01K 1/015 takes		for treatment of udders or teats A01J 7/04; for medical
	precedence) [2]		purposes A61D 11/00); Protection against weather
1/015	• Floor coverings, e.g. bedding-down sheets [2]		conditions or insects
1/02	. Pigsties; Dog-kennels; Rabbit-hutches or the like	14/00	Removing the fleece from live sheep or similar
1/03	Housing for domestic or laboratory animals [2]	2.,,00	animals (hand-held cutting tools B26B) [5]
1/035	. Devices for use in keeping domestic animals,	4 = 100	-
1 /04	e.g. fittings in housings, dog beds [2]	15/00	Devices for taming animals, e.g. nose-rings or hobbles; Devices for overturning animals in general;
1/04	Tethering-poles or the like		Training or exercising equipment; Covering boxes
1/06	 Devices for fastening animals, e.g. halters, toggles, neck-bars, chain fastenings 		(devices for veterinary purposes A61D 3/00)
1/062	. Neck-bars [2]	15/02	Training or exercising equipment, e.g. mazes or
1/064	Chain fastenings [2]		labyrinths for animals (A01K 15/04 takes
1/08	Arrangements for simultaneously releasing several		precedence) [2]
1700	animals	15/04	 Devices for impeding movement; Devices for
1/10	. Feed racks (devices for impeding movement of		impeding passage through fencing [2]
	animals A01K 15/04)	17/00	Dehorners: Horn trainers
1/12	. Milking stations [2]	19/00	Weaning apparatus
3/00	Pasturing equipment, e.g. tethering devices; Grids		
	for preventing cattle from straying; Electrified wire	21/00	Devices for assisting or preventing mating (covering
	fencing (construction of fencing in general E04H 17/00;		boxes A01K 15/00)
	electric circuits for fences H05C)	23/00	Manure or urine pouches
5/00	Feeding devices for stock or game (A01K 1/10 takes precedence; for poultry A01K 39/00) [2]	25/00	Muzzles
5/01	Feed troughs; Feed pails [2]	27/00	Leads or collars, e.g. for dogs (devices specially
5/015	Licking-stone holders (salt blocks A23K 1/16) [2]	27700	adapted or mounted for storing and repeatedly paying-
5/02	. Automatic devices		out and re-storing lengths of material B65H 75/34)
7/00	Watering equipment for stock or game	29/00	Other apparatus for animal husbandry
7/02	. Automatic devices (construction of valves F16K)		
7/04	actuated by float [2]	<u>Avicultu</u>	re; Testing, cleaning, stamping, or grading eggs
7/06	actuated by the animal [2]	31/00	Housing birds
9/00	Sucking apparatus for young stock	31/02	. Door appliances; Automatic door-openers (counters
		01/02	for specific applications G07C 9/00)
11/00	Marking of animals (of poultry A01K 35/00; lead-	31/04	. Dropping-boards; Devices for removing excrement
	sealing pliers B25B)	31/06	. Cages
		31/07	Transportable cages (A01K 31/08 takes
			precedence) [2]
		31/08	Collapsible cages
		31/10	. Doors; Trap-doors

24/42		7 0 /0 /	
31/12	. Perches	59/04	. Honey strainers
31/14	. Nest-boxes	59/06	. Devices for extracting wax
31/16	. Laying nests for poultry; Egg collecting [2]	D: 1 1/	
31/17	Laying batteries [2]	Piscicultu	ıre; <u>Aquaria; Terraria</u>
31/18	. Chicken coops or houses; Brooders	61/00	Culture of fish, mussels, crayfish, lobsters, sponges,
31/19 31/20	Brooders [2]		pearls, or the like (harvesting oysters, mussels, sponges
$\frac{31/20}{31/22}$	Heating arrangements		or the like A01K 80/00)
	Poultry runsDovecots; Pigeonlofts [2]	61/02	. Feeding devices for fish
31/24	. Dovecots, Figeomotis [2]	63/00	Receptacles for live fish, e.g. aquaria (keepnets or
33/00	Nest-eggs	32700	other containers for keeping captured fish A01K 97/20); Terraria [5]
35/00	Marking poultry or other birds	63/02	Receptacles specially adapted for transporting live
37/00	Constraining birds, e.g. wing clamps	63/04	fish Arrangements for treating water specially adapted to
39/00	Feeding or drinking appliances for poultry or other birds [2]		receptacles for live fish (filters in general B01D; water treatment in general C02F) [3]
39/01	. Feeding devices (A01K 39/04 takes precedence) [2]	63/06	. Arrangements for heating or lighting in, or attached
39/012	filling automatically [2]		to, receptacles for live fish (heating or lighting
39/014	Feed troughs; Feed throwers [2]		apparatus <u>per se</u> F21, H01, H05B) [3]
39/02	• Drinking appliances (A01K 39/04 takes precedence;		
20 (022	construction of valves F16K) [2]	65/00	Fish stringers
39/022	with weight-controlled supply [2]	(7/00	Describes and have disconstructed and such advanced and advanced and
39/024	with float-controlled supply [2]	67/00	Rearing or breeding animals, not otherwise provided for; New breeds of animals (methods for reproduction
39/026	kept filled to constant level from incorporated storage [2]		or fertilisation A61D 19/00; medicinal preparations
39/04	. Combined feeding and drinking appliances		containing sperm A61K 35/52; tissue- or animal-cell
39/04	Combined recording and drinking apphrances Cramming appliances		cultivation apparatus C12M 3/00; cultivation or
39/00	. Cramining apphraices		maintenance of tissue or animal cells C12N 5/00;
41/00	Incubators for poultry		mutation or genetic engineering C12N 15/00)
41/02	. Heating arrangements	Note	
41/04	 Controlling humidity in incubators 	Note	
41/06	 Egg-turning appliances for incubators 		In this group the following term is used with the
43/00	Testing, sorting, or cleaning eggs (investigating or		meaning indicated:
43/00	analysing eggs, e.g. by candling, G01N 33/08)		- "breeding" means obtaining animals up to and
43/04	Grading eggs		including their birth or hatching. [5]
43/06	. according to size	-= 10 2	5 U 100
43/08	according to weight (sorting according to weight	67/02	Breeding vertebrates (covering boxes A01K 15/00;
	in general B07C 5/16)		devices for assisting or preventing mating A01K 21/00)
43/10	Grading and stamping	67/027	New breeds of vertebrates [5]
45 /00	Other eviculture condinues as devices for	67/033	Rearing or breeding invertebrates; New breeds of
45/00	Other aviculture appliances, e.g. devices for determining whether a bird is about to lay	077 033	invertebrates (non-chemical sterilisation of
	determining whether a bird is about to lay		invertebrates A01M) [5]
Apicultur	e	67/04	Silkworms [5]
Apicultui	<u>v</u>		
47/00	Beehives	Fishing	
47/02	. Construction or arrangement of frames for	60/00	Stationary satabina devices for fishing
	honeycombs	69/00 69/02	Stationary catching devices for fishing
47/04	. Artificial honeycombs	69/02	Fixed nets without trapsFixed nets with traps
47/06	• Other details of beehives, e.g. ventilating devices,	69/04	•
	entrances to hives, guards, partitions, bee escapes	69/08	TrapsRigid traps, e.g. lobster pots
49/00	Rearing-boxes; Queen transporting or introducing	69/10	Collapsible traps
	cages	09/10	Conapsione traps
51/00	Appliances for treating beehives or parts thereof,	71/00	Floating fishing nets
31/00	e.g. for cleaning or disinfecting	73/00	Drawn fishing nets
	eig. for creaming of distincting	73/00	Trawling nets
53/00	Feeding or drinking appliances for bees	73/02	Devices for spreading or positioning, e.g. control
55/00	Bee-smokers; Bee-keepers' accessories, e.g. veils	73/04	thereof [2]
20,00	(smoking pipes A24F)	73/045	for lateral sheering, e.g. trawl boards [2]
		73/043	for vertical sheering [2]
57/00	Appliances for providing, preventing, or catching	73/053	Ground-line rollers [4]
	swarms; Drone-catching devices	73/053	
59/00	Honey collection	73700	Hading devices for the neutrinos
59/02	Devices for uncapping honeycombs		
	11 0		

73/10	. Determining the quantity of the catch, e.g. by the	89/017	motor-driven [2]
70710	pull or drag on the lines	89/02	Brake devices for reels
73/12	. Nets held vertically in the water, e.g. seines	89/027	with pick-up [5]
74/00	Other catching nets or the like for fishing [2]	89/033	with rotary drum [5]
75/00	Accessories for fishing nets; Details of fishing nets,	89/06 89/08	Reversible reels [5]Pole-less fishing apparatus, i.e. hand-held reels [5]
75/02	e.g. structure [4] . Illuminating devices for nets	91/00	Fishing lines
75/04	Floats (for angling A01K 93/00) [4]	91/02	. Devices for casting lines
75/06	Sinkers (for angling A01K 95/00) [4]	91/03	 Connecting devices (devices for fixing on or removing sinkers from lines A01K 95/02) [5]
77/00	Landing-nets for fishing; Landing-spoons for fishing	91/04 91/047	 for connecting lines to hooks or lures [5] for connecting lines to lines [5]
79/00	Methods or means of catching fish in bulk not provided for in groups A01K 69/00 to A01K 77/00	91/053	Fishing booms, i.e. connecting devices spreading
79/02	• by electrocution (electric circuits therefor H05C)	91/06	out the leaders, e.g. to avoid tangling thereof [5] Apparatus on lines not otherwise provided for,
80/00	Harvesting oysters, mussels, sponges or the like	71700	e.g. automatic hookers (floats A01K 93/00) [2,5]
	(fishing nets A01K 73/00, A01K 74/00; dredgers	91/08	. Trolling devices [5]
	E02F) [3]	91/10	for automatic hook setting [5]
81/00	Fishing with projectiles (weapons, projectiles other	91/12	. Fly lines [5]
01/00	than fish-spears F41, F42)	91/14	. Leaders [5]
81/04	Fish-spears	91/16	for fly fishing [5]
81/06	• Equipment for hunting fish under water (swimming	91/18	 Trotlines, longlines; Accessories therefor, e.g. baiting devices, lifters, setting reelers [5]
	equipment A63B 31/00 to A63B 35/00)	91/20	Line length or depth measuring devices [5]
Angling		93/00	Floats for angling, with or without signalling devices [4,5]
83/00	Fish-hooks	93/02	with signalling devices [5]
83/02	Expanding fish-hook assembly	757 02	· with signaturing devices [e]
83/04	. with special gripping arms	95/00	Sinkers for angling [4]
83/06 85/00	Devices for holding bait on hooks Artificial bait for fishing	95/02	 Devices for fixing on or removing sinkers from lines [5]
85/01	with light emission, sound emission, scent dispersal or the like [2,5]	97/00	Accessories for angling (fish stringers A01K 65/00; landing-nets or landing-spoons for fishing A01K 77/00)
85/02	with means for concealing or protecting hooks, e.g. to	97/01	. for ice-fishing [2]
	prevent entanglement with weeds [5]	97/02	. Devices for laying ground-bait, e.g. chum dispensers
85/08	. Artificial flies (fly tying devices A01K 97/26) [5]	97/04	. Containers for bait; Preparation of bait (feeding-
85/10	 with at least one flat rotating body having its axis of rotation substantially non-coincident with the 	97/05	stuffs for particular animals A23K 1/18) [2] . Containers for live bait kept in water, e.g. for
85/12	longitudinal axis of the body [5] . comprising a body rotating around its longitudinal	97/06	minnows, shrimps [5] Containers or holders for hooks, lines, sinkers, flies
85/14	axis, e.g. devons [5] with flat, or substantially flat, undulating bodies,		or the like [5]
03/14	e.g. spoons [5]	97/08	Containers for rods
85/16	• with other than flat, or substantially flat, undulating	97/10	. Supports for rods
03710	bodies, e.g. plugs [5]	97/11 97/12	 with automatic hooking devices [5] Signalling devices, e.g. tip-up devices (A01K 91/06
85/18	in two or more pieces [5]	97/14	takes precedence) [2]
87/00	Fishing rods	97/14	
87/02	. Connecting devices for parts of the rods		. Devices for drying fishing lines
87/04	. Fishing-line guides on rods	97/18	. for removing fish-hooks from the fish [5]
87/06	. Devices for fixing reels on rods	97/20	. Keepnets or other containers for keeping captured fish (A01K 97/05 takes precedence) [5]
87/08 89/00	. Handgrips [5]	97/22	Platforms or seat-boxes specially adapted for angling. e.g. tackle boxes for use as seats [5]
89/00 89/01	Fishing reels with pick-up, i.e. with the guiding member rotating	97/24	e.g. tackle boxes for use as seats [5] Arrangements for disengaging fish-hooks from
07/01	and the spool being stationary during normal retrieval		obstacles [5]
90/012	of the line (A01K 89/027 takes precedence) [2,5]	97/26	Fly tying devices [5]
	motor-driven [2] . with rotary drum (A01K 89/033 takes	97/28	Vices specially adapted therefor [5]
00/017	precedence) [2,5]	99/00	Methods or apparatus for fishing not provided for in
	Antibacklash devices [5]		groups A01K 69/00 to A01K 97/00 [8]
	Fly reels [5]		
89/0165	for trolling [5]		

A01L SHOEING OF ANIMALS

Subclass index

SHOES		EQUIPM	ENT AND ACCESSORIES
1/00 1/02 1/04	Shoes for horses or other solipeds fastened with nails (A01L 3/00 takes precedence) Solid horseshoes consisting of one part Solid horseshoes consisting of multiple parts	7/00 7/02 7/04 7/06	Accessories for shoeing animals Elastic inserts or soles for horseshoes Solid calks or studs Elastic calks or studs
3/00	Horseshoes fastened by means other than nails, with or without additional fastening by nailing	7/08 7/10	Ice-spurs for horseshoesHorseshoe nails
3/02 3/04	 Horseshoes consisting of one part Horseshoes consisting of two or more parts connected by hinged joints 	9/00 11/00	Shoes for other animals, e.g. oxen Farriers' tools or appliances (making horseshoes by
3/06	Shoe-like appliances enabling draught animals to walk on bogs or the like	13/00	rolling B21H 7/12, by forging B21K 15/02) Pens for animals while being shod
5/00	Horseshoes made of elastic materials	15/00	Apparatus or use of substances for the care of hoofs

A01M CATCHING, TRAPPING OR SCARING OF ANIMALS (apiculture A01K 47/00 to A01K 59/00; fishing A01K 69/00 to A01K 97/00; pesticides A01N); APPARATUS FOR THE DESTRUCTION OF NOXIOUS ANIMALS OR NOXIOUS PLANTS (equipment fitted in or to aircraft for dropping or releasing powdered, liquid or gaseous matter, e.g. pesticides, herbicides, B64D 1/16)

Note

In this subclass, terms "killing" and "destruction" cover "non-chemical sterilisation" of invertebrates. [7]

Subclass index

CATCHING OR KILLING INSE CATCHING OR KILLING AND	7/00 to 11/00; 13/00; 15/00 ECTS1/00 to 5/00, 17/00	APPLIAN DESTRU VEGETA SUBJECT	G DEVICES; HUNTING NCES
1/00 Stationary means for 1/02 . with devices attrac	r catching or killing insects ting the insects	5/00	Catching insects in fields, gardens, or forests by movable appliances
1/04 using illuminati	on	5/02	 Portable appliances
1/06 . using a suction effe	ect	5/04	. Wheeled machines, with means for stripping-off or
1/08 . using combined ill	umination and suction effects		brushing-off insects
1/10 . Traps		5/06	with adhesive surfaces
1/12 automatically re	eset	5/08	with fans
1/14 . Catching by adhes	ive surfaces	7/00	Special adaptations or arrangements of liquid-
1/16 Fly papers or ril	bbons		spraying apparatus for purposes covered by this
1/18 Adhesive bands	or coatings for trees		subclass (spraying apparatus in general B05B)
1/20 . Poisoning, narcotis	sing, or burning insects	9/00	Special adaptations or arrangements of powder-
1/22 . by electric means ((electric circuits therefor H05C)	9/00	spraying apparatus for purposes covered by this
1/24 • Arrangements comwindows, or the like	nected with buildings, doors,		subclass (spraying apparatus in general B05B)
	other than sprayers or powder ching or killing insects,	11/00	Special adaptations or arrangements of combined liquid- and powder-spraying apparatus for purposes covered by this subclass (spraying apparatus in general B05B)
3/02 . Fly-swatters 3/04 . with adhesive surfa	aces	13/00	Fumigators; Apparatus for distributing gases
• With addiesive suite	ucos		0 11

15/00 17/00 19/00 21/00	Flame-throwers specially adapted for purposes covered by this subclass (flame-throwers in general F41H 9/02) Apparatus for the destruction of vermin in soil or in foodstuffs Apparatus for the destruction of noxious animals, other than insects, by hot water, steam, hot air, or electricity (electric circuits therefor H05C) Apparatus for the destruction of unwanted	23/18 23/20 23/22 23/24 23/26 23/28 23/30 23/32 23/34 23/36	 with pivoted closure flaps with dropping doors or slides with dropping covers Jaw or like spring traps of the double-jaw or pincer type Jaw trap setting-devices Break-back traps Racket net traps with snares with arrangements for piercing the victim
21/02 21/04	vegetation, e.g. weeds (biocides, plant growth regulators A01N 25/00 to A01N 65/00; spraying or atomising apparatus in general B05B; soil-conditioning or soil-stabilising materials C09K 17/00; control of undesirable vegetation on roads or permanent ways of railways E01H 11/00) Apparatus for mechanical destruction Apparatus for destruction by steam, chemicals, burning, or electricity	23/38 25/00 27/00	Devices for dispensing poison for animals (A01M 27/00 takes precedence; for insects A01M 1/20) [3] Apparatus having projectiles or killing implements projected to kill the animal, e.g. pierce or shoot, and triggered thereby [3]
23/00 23/02 23/04 23/06 23/08 23/10 23/12 23/14 23/16	 Traps for animals Collecting-traps with tipping platforms with locking mechanism for the tipping platform with approaches permitting entry only with rotating cylinders or turnstiles with devices for throwing the animal to a collecting chamber Other traps automatically reset Box traps 	29/00 29/02 29/04 31/00 31/02 31/04 31/06 99/00	 Scaring devices, e.g. bird-scaring apparatus with means for emission of audible signals [2] with a generator for producing periodically explosive reports [2] Hunting appliances Shooting stands (folding seats A47C) Beater rattles Decoys Subject matter not provided for in other groups of this subclass [8]

A01N PRESERVATION OF BODIES OF HUMANS OR ANIMALS OR PLANTS OR PARTS THEREOF (preservation of food or foodstuff A23); BIOCIDES, E.G. AS DISINFECTANTS, AS PESTICIDES OR AS HERBICIDES (preparations for medical, dental or toilet purposes which kill or prevent the growth or proliferation of unwanted organisms A61K); PEST REPELLANTS OR ATTRACTANTS; PLANT GROWTH REGULATORS (mixtures of pesticides with fertilisers C05G)

- (1) This subclass <u>covers</u>: [3]
 - compositions, physical forms, methods of application of specific materials or the use of single compounds or compositions; [7]
 - chemosterilants for the sexual sterilisation of invertebrates, e.g. insects (sex sterilants for other purposes A61K). [7]
- (2) This subclass <u>does not cover</u> materials which affect the growth of a plant solely by supplying nutrients, i.e. plant food, ordinarily required for growth or materials which are used to prevent or cure mineral deficiencies in plants, e.g. addition of iron chelates to cure iron chlorosis, which materials are covered by class C05. [3]
- (3) In this subclass, the following expression is used with the meaning indicated:
 - "plant growth regulators" are those materials which alter the plant through a chemical modification of the plant metabolism, such as auxins. [3]
- (4) Biocidal, pest repellant, pest attractant or plant growth regulatory activity of compounds or preparations is further classified in subclass A01P. [8]

Subclass index

<u>Preservation of bodies of humans or animals, or plants, or parts</u> thereof

- 1/00 Preservation of bodies of humans or animals, or parts thereof
- 1/02 . Preservation of living parts
- 3/00 Preservation of plants or parts thereof, e.g. inhibiting evaporation, improvement of the appearance of leaves (preservation or chemical ripening of harvested fruit or vegetables A23B 7/00); Grafting wax
- 3/02 Keeping cut flowers fresh chemically (apparatus therefor A01G 5/06)
- 3/04 . Grafting wax

<u>Biocides</u>; <u>Pest repellants or attractants</u>; <u>Plant growth regulators</u> [3]

- (1) Attention is drawn to the definitions of groups of chemical elements following the title of section C. [3]
- (2) In groups A01N 27/00 to A01N 65/00, in the absence of an indication to the contrary, an active ingredient is classified in the last appropriate place. [3]
- (3) A composition, i.e. a mixture of two or more active ingredients is classified in the last of groups A01N 27/00 to A01N 65/00 that provides for at least one of these active ingredients. [8]
- (4) Any part of a composition which is not identified by the classification according to Note (3), and which itself is determined to be novel and non-obvious, must also be classified in the last appropriate place in groups A01N 27/00 to A01N 65/00. The part can be either a single ingredient or a composition in itself. [8]
- (5) Any part of a composition which is not identified by the classification according to Note (3) or (4), and which is considered to represent information of interest for search, may also be classified in the last appropriate place in groups A01N 27/00 to A01N 65/00. This can, for example, be the case when it is considered of interest to enable searching of compositions using a combination of classification symbols. Such non-obligatory classification should be given as "additional information". [8]
- (6) Where a compound is described as existing in tautomeric forms, it is classified as if existing in the form which is classified last in the system. [3]
- (7) Compounds covered by different main groups according to alternatively specified parts of their formulae are classified in every one of the relevant main groups. [3]
- (8) Salts formed between two or more organic compounds are classified as the compound providing the essential ion and it is also classified as the compound providing the other ion. [3]
- (9) Salts or metal chelates of an organic compound are classified as that compound. [3]
- (10) In this subclass, a foodstuff is not considered as an active ingredient. [3]
- (11) Different materials applied in sequence, at different times, are considered as a mixture of all materials employed. [3]
- (12) Synergistic or potentiated compositions are classified as if the synergist or potentiator were an active ingredient. [3]

(13) In groups A01N 25/00 to A01N 65/00, the symbol X means nitrogen, oxygen, sulfur or a halogen; Y means nitrogen, oxygen or sulfur. A dotted line between atoms indicates an optional bond, e.g.... indicates one or two single bonds or a double bond. [3]

- 25/00 Biocides, pest repellants or attractants, or plant growth regulators, characterised by their forms, or by their non-active ingredients or by their methods of application (fungicidal, bactericidal, insecticidal, disinfecting or antiseptic paper D21H); Substances for reducing the noxious effect of the active ingredients to organisms other than pests [3]
- 25/02 . containing liquids as carriers, diluents or solvents [3]
- 25/04 . Dispersions or gels (foams A01N 25/16) [3]
- 25/06 . . . Aerosols [3]
- 25/08 . containing solids as carriers or diluents [3]
- 25/10 . . Macromolecular compounds [3]
- 25/12 Powders or granules (A01N 25/26 takes precedence) [3]
- 25/14 . . wettable [3]
- 25/16 . Foams [3]
- 25/18 . Vapour or smoke emitting compositions with delayed or sustained release [3]
- 25/20 . Combustible or heat-generating compositions [3]
- 25/22 . containing ingredients stabilising the active ingredients [3]
- 25/24 . containing ingredients to enhance the sticking of the active ingredients [3]
- 25/26 . in coated particulate form [3]
- 25/28 . . Microcapsules [3]
- 25/30 . characterised by the surfactants [3]
- 25/32 Ingredients for reducing the noxious effect of the active substances to organisms other than pests,
 e.g. toxicity reducing compositions, self-destructing compositions [3]
- 25/34 . Shaped forms, e.g. sheets, not provided for in any other group of this main group [3]
- 27/00 Biocides, pest repellants or attractants, or plant growth regulators containing hydrocarbons [3]
- 29/00 Biocides, pest repellants or attractants, or plant growth regulators containing halogenated hydrocarbons [3]
- 29/02 . Acyclic compounds or compounds containing halogen attached to an aliphatic side chain of a cycloaliphatic ring system [3]
- 29/04 Halogen directly attached to a carbocyclic ring system [3]
- 29/06 . . Hexachlorocyclohexane [3]
- 29/08 . Halogen directly attached to a polycyclic ring system [3]
- 29/10 . Halogen attached to an aliphatic side chain of an aromatic ring system [3]
- 29/12 . . 1,1-Di- or 1,1,1-tri-halo-2-aryl-ethane or -ethene or derivatives thereof, e.g. DDT [3]
- 31/00 Biocides, pest repellants or attractants, or plant growth regulators containing organic oxygen or sulfur compounds [3]
- 31/02 . Acyclic compounds [3]
- 31/04 Oxygen or sulfur attached to an aliphatic side chain of a carbocyclic ring system [3]
- 31/06 Oxygen or sulfur directly attached to a cycloaliphatic ring system [3]
- 31/08 Oxygen or sulfur directly attached to an aromatic ring system [3]

31/10				
	Pentachlorophenol [3]	37/10		Aromatic or araliphatic carboxylic acids, or thio-
31/12	Bis-chlorophenols [3]			analogues thereof; Derivatives thereof [3]
31/14	Ethers [3]	37/12		containing the group
31/16	with two or more oxygen or sulfur atoms directly			CO O C
	attached to the same aromatic ring system [3]			$-CO-O-\dot{C} = C_n = \dot{Y} = $
33/00	Biocides, pest repellants or attractants, or plant			carbon skeleton not containing a ring; Thio-
	growth regulators containing organic nitrogen			analogues thereof [3]
	compounds [3]	37/14	•	containing the group
33/02	. Amines; Quaternary ammonium compounds [3]			-CO-O-C=X:::: ; Thio-analogues thereof [3]
33/04	Nitrogen directly attached to aliphatic or			-CO-O-C=\times; Inio-analogues thereof [3]
	cycloaliphatic carbon atoms [3]	37/16		containing the group
33/06	Nitrogen directly attached to an aromatic ring	37710	•	i i
22 /00	system [3]			-CO-O-Y == ; Thio-analogues thereof [3]
33/08	containing oxygen or sulfur [3]			•
33/10	having at least one oxygen or sulfur atom directly attached to an aromatic ring system [3]	37/18		containing the group $-CO-N\langle$, e.g. carboxylic acid
33/12	Quaternary ammonium compounds [3]			amides or imides; Thio-analogues thereof [3]
33/12	containing nitrogen-to-halogen bonds [3]	37/20	•	containing the group
33/14	containing introgen-to-oxygen bonds [3]			$-CO-N=C=C_n=Y==$, wherein C_n means a
33/18	. Nitro compounds [3]			
33/10	containing oxygen or sulfur attached to the			carbon skeleton not containing a ring; Thio-
337 20	carbon skeleton containing the nitro group [3]	27/22		analogues thereof [3]
33/22	having at least one oxygen or sulfur atom	37/22	•	 the nitrogen atom being directly attached to an aromatic ring system, e.g. anilides [3]
	and at least one nitro group directly attached	37/24		containing at least one oxygen or sulfur atom
	to the same aromatic ring system [3]	31/24	•	being directly attached to the same aromatic
33/24	only one oxygen atom attached to the nitrogen			ring system [3]
	atom [3]	37/26		. containing the group
33/26	containing nitrogen-to-nitrogen bonds, e.g. azides,			
	diazo-amino compounds, diazonium compounds,			−CO−N−Ç≔X::: ; Thio-analogues
	hydrazine derivatives [3]			thereof [3]
35/00	Biocides, pest repellants or attractants, or plant	37/28		containing the group
	growth regulators containing organic compounds	37/20	•	: Editatining the group
	containing a carbon atom having two bonds to hetero			-CO-N:::X:::: ; Thio-analogues thereof [3]
	atoms with at the most one bond to halogen,	37/30		. containing the groups -CO-N(and
35/02	e.g. aldehyde radical [3]containing aliphatically bound aldehyde or keto	37/30	•	. Containing the groups CO 14\ and
33/02	groups, or thio-analogues thereof; Derivatives			11 :
				il ·
				-Ü — X ···· both being directly attached by their
35/04	thereof, e.g. acetals [3] containing aldehyde or keto groups, or thio-analogues			O II II -C - X both being directly attached by their
35/04	thereof, e.g. acetals [3]			carbon atoms to the same carbon skeleton,
35/04	thereof, e.g. acetals [3] containing aldehyde or keto groups, or thio-analogues thereof, directly attached to an aromatic ring system, e.g. acetophenone; Derivatives thereof,			carbon atoms to the same carbon skeleton, e.g. $H_2N-NH-CO-C_6H_4-COOCH_3$; Thio-
	thereof, e.g. acetals [3] containing aldehyde or keto groups, or thio-analogues thereof, directly attached to an aromatic ring system, e.g. acetophenone; Derivatives thereof, e.g. acetals [3]	27/22		carbon atoms to the same carbon skeleton, e.g. H ₂ N-NH-CO-C ₆ H ₄ -COOCH ₃ ; Thio- analogues thereof [3]
35/04 35/06	 thereof, e.g. acetals [3] containing aldehyde or keto groups, or thio-analogues thereof, directly attached to an aromatic ring system, e.g. acetophenone; Derivatives thereof, e.g. acetals [3] containing keto or thioketo groups as part of a ring, 	37/32		carbon atoms to the same carbon skeleton, e.g. H ₂ N-NH-CO-C ₆ H ₄ -COOCH ₃ ; Thio- analogues thereof [3] Cyclic imides of polybasic carboxylic acids or
	 thereof, e.g. acetals [3] containing aldehyde or keto groups, or thio-analogues thereof, directly attached to an aromatic ring system, e.g. acetophenone; Derivatives thereof, e.g. acetals [3] containing keto or thioketo groups as part of a ring, e.g. cyclohexanone, quinone; Derivatives thereof, 		•	carbon atoms to the same carbon skeleton, e.g. H ₂ N-NH-CO-C ₆ H ₄ -COOCH ₃ ; Thio- analogues thereof [3] Cyclic imides of polybasic carboxylic acids or thio-analogues thereof [3]
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35/06 35/08	thereof, e.g. acetals [3] containing aldehyde or keto groups, or thio-analogues thereof, directly attached to an aromatic ring system, e.g. acetophenone; Derivatives thereof, e.g. acetals [3] containing keto or thioketo groups as part of a ring, e.g. cyclohexanone, quinone; Derivatives thereof, e.g. ketals [3] at least one of the bonds to hetero atoms is to nitrogen [3]	37/34		carbon atoms to the same carbon skeleton, e.g. H ₂ N-NH-CO-C ₆ H ₄ -COOCH ₃ ; Thio- analogues thereof [3] Cyclic imides of polybasic carboxylic acids or thio-analogues thereof [3] Nitriles [3]
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35/06 35/08	thereof, e.g. acetals [3] containing aldehyde or keto groups, or thio-analogues thereof, directly attached to an aromatic ring system, e.g. acetophenone; Derivatives thereof, e.g. acetals [3] containing keto or thioketo groups as part of a ring, e.g. cyclohexanone, quinone; Derivatives thereof, e.g. ketals [3] at least one of the bonds to hetero atoms is to nitrogen [3] containing a carbon-to-nitrogen double bond [3] Biocides, pest repellants or attractants, or plant	37/34		carbon atoms to the same carbon skeleton, e.g. H ₂ N-NH-CO-C ₆ H ₄ -COOCH ₃ ; Thio- analogues thereof [3] . Cyclic imides of polybasic carboxylic acids or thio-analogues thereof [3] Nitriles [3] containing at least one carboxylic group or a thio- analogue, or a derivative thereof, and a singly bound oxygen or sulfur atom attached to the same carbon skeleton, this oxygen or sulfur atom not being a member of a carboxylic group or of a thio-analogue,
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35/06 35/08 35/10	thereof, e.g. acetals [3] containing aldehyde or keto groups, or thio-analogues thereof, directly attached to an aromatic ring system, e.g. acetophenone; Derivatives thereof, e.g. acetals [3] containing keto or thioketo groups as part of a ring, e.g. cyclohexanone, quinone; Derivatives thereof, e.g. ketals [3] at least one of the bonds to hetero atoms is to nitrogen [3] containing a carbon-to-nitrogen double bond [3] Biocides, pest repellants or attractants, or plant growth regulators containing organic compounds containing a carbon atom having three bonds to	37/34 37/36	•	carbon atoms to the same carbon skeleton, e.g. H ₂ N-NH-CO-C ₆ H ₄ -COOCH ₃ ; Thio- analogues thereof [3] . Cyclic imides of polybasic carboxylic acids or thio-analogues thereof [3] Nitriles [3] containing at least one carboxylic group or a thio- analogue, or a derivative thereof, and a singly bound oxygen or sulfur atom attached to the same carbon skeleton, this oxygen or sulfur atom not being a member of a carboxylic group or of a thio-analogue, or of a derivative thereof, e.g. hydroxy-carboxylic acids [3]
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35/06 35/08 35/10	thereof, e.g. acetals [3] containing aldehyde or keto groups, or thio-analogues thereof, directly attached to an aromatic ring system, e.g. acetophenone; Derivatives thereof, e.g. acetals [3] containing keto or thioketo groups as part of a ring, e.g. cyclohexanone, quinone; Derivatives thereof, e.g. ketals [3] at least one of the bonds to hetero atoms is to nitrogen [3] containing a carbon-to-nitrogen double bond [3] Biocides, pest repellants or attractants, or plant growth regulators containing organic compounds containing a carbon atom having three bonds to hetero atoms with at the most two bonds to halogen, e.g. carboxylic acids (containing cyclopropane carboxylic acids or derivatives thereof,	37/34 37/36		carbon atoms to the same carbon skeleton, e.g. H ₂ N-NH-CO-C ₆ H ₄ -COOCH ₃ ; Thio- analogues thereof [3] Cyclic imides of polybasic carboxylic acids or thio-analogues thereof [3] Nitriles [3] containing at least one carboxylic group or a thio- analogue, or a derivative thereof, and a singly bound oxygen or sulfur atom attached to the same carbon skeleton, this oxygen or sulfur atom not being a member of a carboxylic group or of a thio-analogue, or of a derivative thereof, e.g. hydroxy-carboxylic acids [3] having at least one oxygen or sulfur atom attached to an aromatic ring system [3]
35/06 35/08 35/10	thereof, e.g. acetals [3] containing aldehyde or keto groups, or thio-analogues thereof, directly attached to an aromatic ring system, e.g. acetophenone; Derivatives thereof, e.g. acetals [3] containing keto or thioketo groups as part of a ring, e.g. cyclohexanone, quinone; Derivatives thereof, e.g. ketals [3] at least one of the bonds to hetero atoms is to nitrogen [3] containing a carbon-to-nitrogen double bond [3] Biocides, pest repellants or attractants, or plant growth regulators containing organic compounds containing a carbon atom having three bonds to hetero atoms with at the most two bonds to halogen, e.g. carboxylic acids (containing cyclopropane carboxylic acids or derivatives thereof, e.g. cyclopropane carboxylic acid nitriles,	37/34 37/36		carbon atoms to the same carbon skeleton, e.g. H ₂ N-NH-CO-C ₆ H ₄ -COOCH ₃ ; Thio- analogues thereof [3] Cyclic imides of polybasic carboxylic acids or thio-analogues thereof [3] Nitriles [3] containing at least one carboxylic group or a thio- analogue, or a derivative thereof, and a singly bound oxygen or sulfur atom attached to the same carbon skeleton, this oxygen or sulfur atom not being a member of a carboxylic group or of a thio-analogue, or of a derivative thereof, e.g. hydroxy-carboxylic acids [3] having at least one oxygen or sulfur atom attached
35/06 35/08 35/10 37/00	thereof, e.g. acetals [3] containing aldehyde or keto groups, or thio-analogues thereof, directly attached to an aromatic ring system, e.g. acetophenone; Derivatives thereof, e.g. acetals [3] containing keto or thioketo groups as part of a ring, e.g. cyclohexanone, quinone; Derivatives thereof, e.g. ketals [3] at least one of the bonds to hetero atoms is to nitrogen [3] containing a carbon-to-nitrogen double bond [3] Biocides, pest repellants or attractants, or plant growth regulators containing organic compounds containing a carbon atom having three bonds to hetero atoms with at the most two bonds to halogen, e.g. carboxylic acids (containing cyclopropane carboxylic acids or derivatives thereof, e.g. cyclopropane carboxylic acid nitriles, A01N 53/00) [3]	37/34 37/36		carbon atoms to the same carbon skeleton, e.g. H ₂ N-NH-CO-C ₆ H ₄ -COOCH ₃ ; Thio- analogues thereof [3] Cyclic imides of polybasic carboxylic acids or thio-analogues thereof [3] Nitriles [3] containing at least one carboxylic group or a thio- analogue, or a derivative thereof, and a singly bound oxygen or sulfur atom attached to the same carbon skeleton, this oxygen or sulfur atom not being a member of a carboxylic group or of a thio-analogue, or of a derivative thereof, e.g. hydroxy-carboxylic acids [3] having at least one oxygen or sulfur atom attached to an aromatic ring system [3] having at least one carboxylic group or a thio- analogue, or a derivative thereof, and one oxygen or sulfur atom attached to the same
35/06 35/08 35/10	thereof, e.g. acetals [3] containing aldehyde or keto groups, or thio-analogues thereof, directly attached to an aromatic ring system, e.g. acetophenone; Derivatives thereof, e.g. acetals [3] containing keto or thioketo groups as part of a ring, e.g. cyclohexanone, quinone; Derivatives thereof, e.g. ketals [3] at least one of the bonds to hetero atoms is to nitrogen [3] containing a carbon-to-nitrogen double bond [3] Biocides, pest repellants or attractants, or plant growth regulators containing organic compounds containing a carbon atom having three bonds to hetero atoms with at the most two bonds to halogen, e.g. carboxylic acids (containing cyclopropane carboxylic acids or derivatives thereof, e.g. cyclopropane carboxylic acid nitriles, A01N 53/00) [3] Saturated carboxylic acids or thio-analogues thereof;	37/34 37/36 37/38 37/40		carbon atoms to the same carbon skeleton, e.g. H ₂ N-NH-CO-C ₆ H ₄ -COOCH ₃ ; Thio- analogues thereof [3] Cyclic imides of polybasic carboxylic acids or thio-analogues thereof [3] Nitriles [3] containing at least one carboxylic group or a thio- analogue, or a derivative thereof, and a singly bound oxygen or sulfur atom attached to the same carbon skeleton, this oxygen or sulfur atom not being a member of a carboxylic group or of a thio-analogue, or of a derivative thereof, e.g. hydroxy-carboxylic acids [3] having at least one oxygen or sulfur atom attached to an aromatic ring system [3] having at least one carboxylic group or a thio- analogue, or a derivative thereof, and one oxygen or sulfur atom attached to the same aromatic ring system [3]
35/06 35/08 35/10 37/00	thereof, e.g. acetals [3] containing aldehyde or keto groups, or thio-analogues thereof, directly attached to an aromatic ring system, e.g. acetophenone; Derivatives thereof, e.g. acetals [3] containing keto or thioketo groups as part of a ring, e.g. cyclohexanone, quinone; Derivatives thereof, e.g. ketals [3] at least one of the bonds to hetero atoms is to nitrogen [3] containing a carbon-to-nitrogen double bond [3] Biocides, pest repellants or attractants, or plant growth regulators containing organic compounds containing a carbon atom having three bonds to hetero atoms with at the most two bonds to halogen, e.g. carboxylic acids (containing cyclopropane carboxylic acids or derivatives thereof, e.g. cyclopropane carboxylic acids or dividing acids or thio-analogues thereof; Derivatives thereof [3]	37/34 37/36		carbon atoms to the same carbon skeleton, e.g. H ₂ N-NH-CO-C ₆ H ₄ -COOCH ₃ ; Thio- analogues thereof [3] Cyclic imides of polybasic carboxylic acids or thio-analogues thereof [3] Nitriles [3] containing at least one carboxylic group or a thio- analogue, or a derivative thereof, and a singly bound oxygen or sulfur atom attached to the same carbon skeleton, this oxygen or sulfur atom not being a member of a carboxylic group or of a thio-analogue, or of a derivative thereof, e.g. hydroxy-carboxylic acids [3] having at least one oxygen or sulfur atom attached to an aromatic ring system [3] having at least one carboxylic group or a thio- analogue, or a derivative thereof, and one oxygen or sulfur atom attached to the same aromatic ring system [3] containing within the same carbon skeleton a
35/06 35/08 35/10 37/00 37/02 37/04	thereof, e.g. acetals [3] containing aldehyde or keto groups, or thio-analogues thereof, directly attached to an aromatic ring system, e.g. acetophenone; Derivatives thereof, e.g. acetals [3] containing keto or thioketo groups as part of a ring, e.g. cyclohexanone, quinone; Derivatives thereof, e.g. ketals [3] at least one of the bonds to hetero atoms is to nitrogen [3] containing a carbon-to-nitrogen double bond [3] Biocides, pest repellants or attractants, or plant growth regulators containing organic compounds containing a carbon atom having three bonds to hetero atoms with at the most two bonds to halogen, e.g. carboxylic acids (containing cyclopropane carboxylic acids or derivatives thereof, e.g. cyclopropane carboxylic acid nitriles, A01N 53/00) [3] Saturated carboxylic acids or thio-analogues thereof; Derivatives thereof [3] polybasic [3]	37/34 37/36 37/38 37/40		carbon atoms to the same carbon skeleton, e.g. H ₂ N-NH-CO-C ₆ H ₄ -COOCH ₃ ; Thio- analogues thereof [3] Cyclic imides of polybasic carboxylic acids or thio-analogues thereof [3] Nitriles [3] containing at least one carboxylic group or a thio- analogue, or a derivative thereof, and a singly bound oxygen or sulfur atom attached to the same carbon skeleton, this oxygen or sulfur atom not being a member of a carboxylic group or of a thio-analogue, or of a derivative thereof, e.g. hydroxy-carboxylic acids [3] having at least one oxygen or sulfur atom attached to an aromatic ring system [3] having at least one carboxylic group or a thio- analogue, or a derivative thereof, and one oxygen or sulfur atom attached to the same aromatic ring system [3] containing within the same carbon skeleton a carboxylic group or a thio-analogue, or a derivative
35/06 35/08 35/10 37/00	thereof, e.g. acetals [3] containing aldehyde or keto groups, or thio-analogues thereof, directly attached to an aromatic ring system, e.g. acetophenone; Derivatives thereof, e.g. acetals [3] containing keto or thioketo groups as part of a ring, e.g. cyclohexanone, quinone; Derivatives thereof, e.g. ketals [3] at least one of the bonds to hetero atoms is to nitrogen [3] containing a carbon-to-nitrogen double bond [3] Biocides, pest repellants or attractants, or plant growth regulators containing organic compounds containing a carbon atom having three bonds to hetero atoms with at the most two bonds to halogen, e.g. carboxylic acids (containing cyclopropane carboxylic acids or derivatives thereof, e.g. cyclopropane carboxylic acids or thio-analogues thereof; Derivatives thereof [3] Saturated carboxylic acids or thio-analogues	37/34 37/36 37/38 37/40		carbon atoms to the same carbon skeleton, e.g. H ₂ N-NH-CO-C ₆ H ₄ -COOCH ₃ ; Thio- analogues thereof [3] Cyclic imides of polybasic carboxylic acids or thio-analogues thereof [3] Nitriles [3] containing at least one carboxylic group or a thio- analogue, or a derivative thereof, and a singly bound oxygen or sulfur atom attached to the same carbon skeleton, this oxygen or sulfur atom not being a member of a carboxylic group or of a thio-analogue, or of a derivative thereof, e.g. hydroxy-carboxylic acids [3] having at least one oxygen or sulfur atom attached to an aromatic ring system [3] having at least one carboxylic group or a thio- analogue, or a derivative thereof, and one oxygen or sulfur atom attached to the same aromatic ring system [3] containing within the same carbon skeleton a carboxylic group or a thio-analogue, or a derivative thereof, and a carbon atom having only two bonds to
35/06 35/08 35/10 37/00 37/02 37/04	thereof, e.g. acetals [3] containing aldehyde or keto groups, or thio-analogues thereof, directly attached to an aromatic ring system, e.g. acetophenone; Derivatives thereof, e.g. acetals [3] containing keto or thioketo groups as part of a ring, e.g. cyclohexanone, quinone; Derivatives thereof, e.g. ketals [3] at least one of the bonds to hetero atoms is to nitrogen [3] containing a carbon-to-nitrogen double bond [3] Biocides, pest repellants or attractants, or plant growth regulators containing organic compounds containing a carbon atom having three bonds to hetero atoms with at the most two bonds to halogen, e.g. carboxylic acids (containing cyclopropane carboxylic acids or derivatives thereof, e.g. cyclopropane carboxylic acid nitriles, A01N 53/00) [3] Saturated carboxylic acids or thio-analogues thereof; Derivatives thereof [3] Unsaturated carboxylic acids or thio-analogues thereof; Derivatives thereof [3]	37/34 37/36 37/38 37/40		carbon atoms to the same carbon skeleton, e.g. H ₂ N-NH-CO-C ₆ H ₄ -COOCH ₃ ; Thio- analogues thereof [3] Cyclic imides of polybasic carboxylic acids or thio-analogues thereof [3] Nitriles [3] containing at least one carboxylic group or a thio- analogue, or a derivative thereof, and a singly bound oxygen or sulfur atom attached to the same carbon skeleton, this oxygen or sulfur atom not being a member of a carboxylic group or of a thio-analogue, or of a derivative thereof, e.g. hydroxy-carboxylic acids [3] having at least one oxygen or sulfur atom attached to an aromatic ring system [3] having at least one carboxylic group or a thio- analogue, or a derivative thereof, and one oxygen or sulfur atom attached to the same aromatic ring system [3] containing within the same carbon skeleton a carboxylic group or a thio-analogue, or a derivative thereof, and a carbon atom having only two bonds to hetero atoms with at the most one bond to halogen,
35/06 35/08 35/10 37/00 37/02 37/04 37/06	thereof, e.g. acetals [3] containing aldehyde or keto groups, or thio-analogues thereof, directly attached to an aromatic ring system, e.g. acetophenone; Derivatives thereof, e.g. acetals [3] containing keto or thioketo groups as part of a ring, e.g. cyclohexanone, quinone; Derivatives thereof, e.g. ketals [3] at least one of the bonds to hetero atoms is to nitrogen [3] containing a carbon-to-nitrogen double bond [3] Biocides, pest repellants or attractants, or plant growth regulators containing organic compounds containing a carbon atom having three bonds to hetero atoms with at the most two bonds to halogen, e.g. carboxylic acids (containing cyclopropane carboxylic acids or derivatives thereof, e.g. cyclopropane carboxylic acids or thio-analogues thereof; Derivatives thereof [3] Saturated carboxylic acids or thio-analogues	37/34 37/36 37/38 37/40		carbon atoms to the same carbon skeleton, e.g. H ₂ N-NH-CO-C ₆ H ₄ -COOCH ₃ ; Thio- analogues thereof [3] Cyclic imides of polybasic carboxylic acids or thio-analogues thereof [3] Nitriles [3] containing at least one carboxylic group or a thio- analogue, or a derivative thereof, and a singly bound oxygen or sulfur atom attached to the same carbon skeleton, this oxygen or sulfur atom not being a member of a carboxylic group or of a thio-analogue, or of a derivative thereof, e.g. hydroxy-carboxylic acids [3] having at least one oxygen or sulfur atom attached to an aromatic ring system [3] having at least one carboxylic group or a thio- analogue, or a derivative thereof, and one oxygen or sulfur atom attached to the same aromatic ring system [3] containing within the same carbon skeleton a carboxylic group or a thio-analogue, or a derivative thereof, and a carbon atom having only two bonds to
35/06 35/08 35/10 37/00 37/02 37/04 37/06	thereof, e.g. acetals [3] containing aldehyde or keto groups, or thio-analogues thereof, directly attached to an aromatic ring system, e.g. acetophenone; Derivatives thereof, e.g. acetals [3] containing keto or thioketo groups as part of a ring, e.g. cyclohexanone, quinone; Derivatives thereof, e.g. ketals [3] at least one of the bonds to hetero atoms is to nitrogen [3] containing a carbon-to-nitrogen double bond [3] Biocides, pest repellants or attractants, or plant growth regulators containing organic compounds containing a carbon atom having three bonds to hetero atoms with at the most two bonds to halogen, e.g. carboxylic acids (containing cyclopropane carboxylic acids or derivatives thereof, e.g. cyclopropane carboxylic acids or thio-analogues thereof; Derivatives thereof [3] Saturated carboxylic acids or thio-analogues thereof; Derivatives thereof [3] Unsaturated carboxylic acids or thio-analogues thereof; Derivatives thereof [3] containing carboxylic groups or thio-analogues	37/34 37/36 37/38 37/40		carbon atoms to the same carbon skeleton, e.g. H ₂ N-NH-CO-C ₆ H ₄ -COOCH ₃ ; Thio- analogues thereof [3] Cyclic imides of polybasic carboxylic acids or thio-analogues thereof [3] Nitriles [3] containing at least one carboxylic group or a thio- analogue, or a derivative thereof, and a singly bound oxygen or sulfur atom attached to the same carbon skeleton, this oxygen or sulfur atom not being a member of a carboxylic group or of a thio-analogue, or of a derivative thereof, e.g. hydroxy-carboxylic acids [3] having at least one oxygen or sulfur atom attached to an aromatic ring system [3] having at least one carboxylic group or a thio- analogue, or a derivative thereof, and one oxygen or sulfur atom attached to the same aromatic ring system [3] containing within the same carbon skeleton a carboxylic group or a thio-analogue, or a derivative thereof, and a carbon atom having only two bonds to hetero atoms with at the most one bond to halogen,

25.44			
37/44	. containing at least one carboxylic group or a thio-		- "bridged" means the presence of at least one fusion
	analogue, or a derivative thereof, and a nitrogen atom attached to the same carbon skeleton by a single or		other than ortho, peri and spiro; two rings are "condensed" if they share at least one
	double bond, this nitrogen atom not being a member		ring member, i.e. "spiro" and "bridged" are
	of a derivative or of a thio-analogue of a carboxylic		considered as condensed;
	group, e.g. amino-carboxylic acids [3]		 "condensed ring system" is a ring system in which
37/46	N-acyl derivatives [3]		all rings are condensed among themselves. [3]
37/48	. Nitro-carboxylic acids; Derivatives thereof [3]	(2)	In this group, the number of rings in a condensed ring
37/50	the nitrogen atom being doubly bound to the		system equals the number of scissions necessary to
-,,-,	carbon skeleton [3]		convert the ring system into one acyclic chain. The
37/52	• containing		relevant rings in a condensed system are chosen
	X−C=N− groups, e.g. carboxylic acid		according to the following criteria consecutively: (i) lowest number of ring members,
			(ii) highest number of hetero atoms as ring members.
	amidines [3]		Ring members shared by two or more rings are regarded
39/00	Biocides, pest repellants or attractants, or plant		as being a member of each of these rings. [3]
25700	growth regulators containing aryloxy- or arylthio-		
	aliphatic or cycloaliphatic compounds, containing	43/02	. having rings with one or more oxygen or sulfur atoms
	the group		as the only ring hetero atom [3]
	$Ar - O - C_n = Y$ or	43/04	with one hetero atom [3]
	$Ar-S-C_n = Y$, e.g. phenoxyethylamine,	43/06	five-membered rings [3]
	phenylthio-acetonitrile, phenoxyacetone [3]	43/08	with oxygen as the ring hetero atom [3]
	phenyltino-acetomitrile, phenoxyacetone [5]	43/10	with sulfur as the ring hetero atom [3]
Note		43/12	condensed with a carbocyclic ring [3]
' <u></u>	_	43/14	six-membered rings [3]
	In this group, the symbol C_n means a carbon skeleton,	43/16	with oxygen as the ring hetero atom [3]
	not containing an aromatic ring system wherein n>=2.	43/18	with sulfur as the ring hetero atom [3]
	[3]	43/20	three- or four-membered rings [3]
/		43/22	rings with more than six members [3]
39/02	. Aryloxy-carboxylic acids; Derivatives thereof [3]	43/24	with two or more hetero atoms [3]
39/04	Aryloxy-acetic acids; Derivatives thereof [3]	43/26	five-membered rings [3]
41/00	Biocides, pest repellants or attractants, or plant	43/28	with two hetero atoms in positions 1,3 [3]
	growth regulators containing organic compounds	43/30	with two oxygen atoms in positions 1,3,
	containing a sulfur atom bound to a hetero atom [3]	43/32	condensed with a carbocyclic ring [3]
41/02	 containing a sulfur-to-oxygen double bond [3] 	43/34	 six-membered rings [3]. having rings with one nitrogen atom as the only ring
41/04	Sulfonic acids; Derivatives thereof [3]	43/34	hetero atom [3]
41/06	Sulfonic acid amides [3]	43/36	five-membered rings [3]
41/08	Sulfonic acid halides; alpha-Hydroxy-sulfonic	43/38	condensed with carbocyclic rings [3]
	acids; Amino-sulfonic acids; Thiosulfonic acids; Derivatives thereof [3]	43/40	six-membered rings [3]
41/10	,	43/42	condensed with carbocyclic rings [3]
41/10	Sulfones; Sulfoxides [3]	43/44	three- or four-membered rings [3]
41/12	 not containing sulfur-to-oxygen bonds, e.g. polysulfides [3] 	43/46	rings with more than six members [3]
	e.g. porysumaes [6]	43/48	. having rings with two nitrogen atoms as the only ring
43/00	Biocides, pest repellants or attractants, or plant		hetero atoms [3]
	growth regulators containing heterocyclic	43/50	1,3-Diazoles; Hydrogenated 1,3-diazoles [3]
	compounds (containing cyclic anhydrides, cyclic imides A01N 37/00; containing compounds of the	43/52	condensed with carbocyclic rings,
	formula		e.g. benzimidazoles [3]
	•	43/54	1,3-Diazines; Hydrogenated 1,3-diazines [3]
	$X_m = C_n - N \begin{pmatrix} C \\ C \end{pmatrix}$, containing only one heterocyclic	43/56	1,2-Diazoles; Hydrogenated 1,2-diazoles [3]
	ring, wherein m>=1 and n>=0 and	43/58	1,2-Diazines; Hydrogenated 1,2-diazines [3]
	_	43/60	1,4-Diazines; Hydrogenated 1,4-diazines [3]
	$-N\langle {\stackrel{C}{C}} \rangle$ is unsubstituted or alkylsubstituted	43/62	three- or four-membered rings or rings with more
	pyrrolidine, piperidine, morpholine, thiomorpholine,	10/61	than six members [3]
	piperazine or a polymethyleneimine with four or	43/64	. having rings with three nitrogen atoms as the only
	more CH ₂ groups A01N 33/00 to A01N 41/12;	43/647	ring hetero atoms [3,4] . Triazoles; Hydrogenated triazoles [4]
	containing cyclopropane carboxylic acids or derivatives	43/653	1,2,4-Triazoles; Hydrogenated
	thereof, e.g. esters having heterocyclic rings,	45/055	1,2,4-triazoles [4]
	A01N 53/00) [3]	43/66	. 1,3,5-Triazines, not hydrogenated and not
		.5,00	substituted at the ring nitrogen atoms [3]
		43/68	with two or three nitrogen atoms directly
(1)	In this group, the following terms or expressions are		attached to ring carbon atoms [3]
	used with the meanings indicated:		

used with the meanings indicated:

- "hetero ring" is a ring having at least one halogen, nitrogen, oxygen or sulfur atom as a ring member;

43/70	Diamino-1,3,5-triazines with only one oxygen, sulfur or halogen atom or only one cyano, thiocyano (¬SCN), cyanato (¬OCN) or azido (¬N ₃) group directly attached to a ring carbon atom [3]	47/12 containing a ¬O¬CO¬N⟨ group, or a thio-analogue thereof, neither directly attached to a ring nor the nitrogen atom being a member of a heterocyclic ring [3] 47/14 Di-thio-analogues thereof [3]
43/707	1,2,3- or 1,2,4-Triazines; Hydrogenated 1,2,3- or 1,2,4-triazines [4]	47/16 the nitrogen atom being part of a heterocyclic ring [3]
43/713	 having rings with four or more nitrogen atoms as the only ring hetero atoms [4] 	47/18 containing a −O−CO−N⟨ group, or a thio-analogue thereof, directly attached to a
43/72	 having rings with nitrogen atoms and oxygen or sulfur atoms, as ring hetero atoms [3] 	heterocyclic or cycloaliphatic ring [3] 47/20 N-Aryl derivatives thereof [3]
43/74	five-membered rings with one nitrogen atom and	47/22 O-Aryl or S-Aryl esters thereof [3]
	either one oxygen atom or one sulfur atom in positions 1,3 [3]	47/24 containing the groups
43/76 43/78	1,3-Oxazoles; Hydrogenated 1,3-oxazoles [3] 1,3-Thiazoles; Hydrogenated 1,3-thiazoles [3]	
43/78	1,3-1 mazoles; Hydrogenated 1,3-thrazoles [3] five-membered rings with one nitrogen atom and	"
	either one oxygen atom or one sulfur atom in positions 1,2 [3]	X -O-CO-N⟨, O-CO-N-X
43/82	five-membered rings with three hetero atoms [3]	X − S − CO−Nζ; Thio-analogues
43/824	1,3,4-Oxa(thia)diazoles; Hydrogenated 1,3,4-oxa(thia)diazoles [6]	· · · · · · · · · · · · · · · · · · ·
43/828	1,2,3-Oxa(thia)diazoles; Hydrogenated	thereof [3] 47/26 Oxidation products of dithiocarbamic acid
12 /922	1,2,3-oxa(thia)diazoles [6]	derivatives, e.g. thiuram sulfides [3]
43/832	1,2,5-Oxa(thia)diazoles; Hydrogenated 1,2,5-oxa(thia)diazoles [6]	47/28 Ureas or thioureas containing the groups
43/836	1,2,4-Oxa(thia)diazoles; Hydrogenated	N-CO-N or $N-CS-N$ (isoureas, isothioureas A01N 47/42) [3]
43/84	1,2,4-oxa(thia)diazoles [6]	47/30 Derivatives containing the group
43/64	six-membered rings with one nitrogen atom and either one oxygen atom or one sulfur atom in	N-CO-N-aryl or N-CS-N-aryl [3]
	positions 1,4 [3]	47/32 containing $\rangle N-CO-N\langle \text{ or } \rangle N-CS-N\langle$
43/86	six-membered rings with one nitrogen atom and either one oxygen atom or one sulfur atom in	groups directly attached to a cycloaliphatic ring [3]
	positions 1,3 [3]	47/34 containing the groups
43/88	six-membered rings with three ring hetero atoms [3]	>N-CO-N-CO-
43/90	 having two or more relevant hetero rings, condensed among themselves or with a common carbocyclic ring system [3] 	>N-CO-N-C-O-, >N-CO-N-S- >N-CO-N-N-or>N-CO-N-C-N<
43/92	 having rings with one or more halogen atoms as ring hetero atoms [3] 	>N-CO-N=N-or>N-CO-N-C-N<
45/00	Biocides, pest repellants or attractants, or plant growth regulators containing compounds having	, e.g. biuret; Thio-analogues thereof; Urea- aldehyde condensation products [3]
	three or more carbocyclic rings condensed among themselves, at least one ring not being a six- membered ring (halogenated hydrocarbons	47/36 containing the group N−CO−N⟨ directly attached to at least one heterocyclic ring; Thio-
	A01N 29/08; condensed with heterocyclic rings	analogues thereof [3]
45 (00	A01N 43/00) [3]	47/38 containing the group N−CO−N⟨ where at least one nitrogen atom is part of a heterocyclic
45/02	. having three carbocyclic rings [3]	ring; Thio-analogues thereof [3]
47/00	Biocides, pest repellants or attractants, or plant growth regulators containing organic compounds containing a carbon atom not being member of a	 47/40 . the carbon atom having a double or triple bond to nitrogen, e.g. cyanamides (inorganic cyanamides A01N 59/24) [3]
	ring and having no bond to a carbon or hydrogen	47/42 containing ¬N=CX ₂ groups, e.g. isothiourea [3]
	atom, e.g. derivatives of carbonic acid (carbon tatrabolidae AO1N 29/02) [3]	47/44 Guanidine; Derivatives thereof [3]
47/02	tetrahalides A01N 29/02) [3] the carbon atom having no bond to a nitrogen	47/46 containing ¬N=C=S groups [3]
	atom [3]	47/48 containing ¬S¬C≡N groups (A01N 43/00 to
47/04	containing N-S-C≡Hal ₃ groups [3]	A01N 47/38 take precedence) [3]
47/06	containing -O-CO-O-groups; Thio-analogues thereof [3]	
47/08	the carbon atom having one or more single bonds to nitrogen atoms [3]	
47/10	Carbamic acid derivatives, i.e. containing the	
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group $\neg O \neg CO \neg N \langle$; Thio-analogues thereof [3]

49/00 Biocides, pest repellants or attractants, or plant growth regulators containing compounds containing the group

$$\begin{array}{c} C \\ + C_n + C^x - C^x - C^x = C^x + C_n + \text{ wherein } m + n > = 1, \\ X & X \end{array}$$

both X together may also mean -Y-or a direct carbon-to-carbon bond, and the carbon atoms marked with an asterisk are not part of any ring system other than that which may be formed by the atoms X, the carbon atoms in square brackets being part of any acyclic or cyclic structure, or the group

carbon atom or Y, $n \ge 0$, and not more than one of these carbon atoms being a member of the same ring system, e.g. juvenile insect hormones or mimics thereof (containing hydrocarbons A01N 27/00) [3]

- 51/00 Biocides, pest repellants or attractants, or plant growth regulators containing organic compounds having the sequences of atoms O-N-S, X-O-S, N-N-S, O-N-N or O-halogen, regardless of the number of bonds each atom has and with no atom of these sequences forming part of a heterocyclic ring [3]
- 53/00 Biocides, pest repellants or attractants, or plant growth regulators containing cyclopropane carboxylic acids or derivatives thereof [3]
- 53/02 . Esters containing the group $\begin{array}{c|c} -C-I \\ I > C-CO-CC \end{array} \text{, wherein the carbon atom}$

marked with an asterisk is acyclic or part of a ring or ring system; Thio-analogues thereof [6]

53/04 . . having heterocyclic rings [6]

53/06

53/14

- the carbon atom marked with an asterisk being acyclic and directly bound to a carbon atom of a six-membered aromatic ring, e.g. benzyl esters; Thio-analogues thereof [6]
- 53/08 . . . with aryloxy groups bound to the sixmembered aromatic ring, e.g. phenoxybenzyl esters; Thio-analogues thereof [6]
- 53/10 . Esters not provided for in groups A01N 53/04 or A01N 53/06 [6]
- 53/12 . Compounds containing the group $\begin{array}{c|c} -C I \\ \hline -C C X \\ \hline -C X \\ \hline -C X \\ \end{array}, X \text{ or } Y \text{ being a nitrogen atom,}$

e.g. cyclopropane carboxylic acid amides [6] Cyclopropane carboxylic acid nitriles [6]

- 55/00 Biocides, pest repellants or attractants, or plant growth regulators containing organic compounds containing elements other than carbon, hydrogen, halogen, oxygen, nitrogen and sulfur (containing organo-phosphorus compounds A01N 57/00) [3]
- 55/02 . containing metal atoms [3]
- 55/04 . . Tin [3]
- 55/06 . . Mercury [3]
- 55/08 . containing boron [3]
- 55/10 . containing silicon [6]

- 57/00 Biocides, pest repellants or attractants, or plant growth regulators containing organic phosphorus compounds [3]
- 57/02 having alternatively specified atoms bound to the phosphorus atom and not covered by a single one of groups A01N 57/10, A01N 57/18, A01N 57/26, A01N 57/34 [3]
- 57/04 . . containing acyclic or cycloaliphatic radicals [3]
- 57/06 . . containing aromatic radicals [3]
- 57/08 . . containing heterocyclic radicals [3]
- 57/10 having phosphorus-to-oxygen bonds or phosphorusto-sulfur bonds (A01N 57/02 takes precedence) [3]
- 57/12 . . containing acyclic or cycloaliphatic radicals [3]
- 57/14 . . containing aromatic radicals [3]
- 57/16 . . containing heterocyclic radicals [3]
- 57/18 . having phosphorus-to-carbon bonds (A01N 57/02 takes precedence) [3]
- 57/20 . . containing acyclic or cycloaliphatic radicals [3]
- 57/22 . . containing aromatic radicals [3]
- 57/24 . . containing heterocyclic radicals [3]
- 57/26 . having phosphorus-to-nitrogen bonds (A01N 57/02 takes precedence) [3]
- 57/28 . . containing acyclic or cycloaliphatic radicals [3]
- 57/30 . . containing aromatic radicals [3]
- 57/32 . . containing heterocyclic radicals [3]
- 57/34 . having phosphorus-to-halogen bonds; Phosphonium salts [3]
- 57/36 . having phosphorus as a ring member [3]
- 59/00 Biocides, pest repellants or attractants, or plant growth regulators containing elements or inorganic compounds [3]
- 59/02 . Sulfur; Selenium; Tellurium; Compounds thereof [3]
- 59/04 Carbon disulfide; Carbon monoxide; Carbon dioxide (treatment of plants with carbon dioxide A01G 7/02) [3]
- 59/06 . Aluminium; Calcium; Magnesium; Compounds thereof [3]
- 59/08 . Alkali metal chlorides; Alkaline earth metal chlorides [3]
- 59/10 . Fluorides [3]
- 59/12 . Iodine, e.g. iodophors; Compounds thereof [3]
- 59/14 . Boron; Compounds thereof [3]
- 59/16 . Heavy metals; Compounds thereof [3]
- 59/18 . . Mercury [3]
- 59/20 . . Copper [3]
- 59/22 . . Arsenic [3]
- 59/24 Cyanogen or compounds thereof, e.g. hydrogen cyanide, cyanic acid, cyanamide, thiocyanic acid [3]
- 59/26 . Phosphorus; Compounds thereof [3]
- 61/00 Biocides, pest repellants or attractants, or plant growth regulators containing substances of unknown or undetermined composition, e.g. substances characterised only by the mode of action [3]
- Mineral oils; Tar oils; Tar; Distillates, extracts or conversion products thereof (containing single chemical compounds isolated from these materials A01N 27/00 to A01N 59/00) [3]

63/00	Biocides, pest repellants or attractants, or plant growth regulators containing micro-organisms,	65/18 Euphorbiaceae [Spurge family], e.g. ricinus [castorbean] [2009.01]
	viruses, microbial fungi, animals, e.g. nematodes, or substances produced by, or obtained from micro- organisms, viruses, microbial fungi or animals,	65/20 . Fabaceae or Leguminosae [Pea or Legume family], e.g. pea, lentil, soybean, clover, acacia, honey locust, derris or millettia [2009.01]
63/02	 e.g. enzymes or fermentates (containing compounds of determined constitution A01N 27/00 to A01N 59/00) [3] Substances produced by, or obtained from, micro- 	65/22 . Lamiaceae or Labiatae [Mint family], e.g. thyme, rosemary, skullcap, selfheal, lavender, perilla, pennyroyal, peppermint or spearmint [2009.01]
63/04	organisms or animals [3] Microbial fungi; Substances produced thereby or	65/24 . Lauraceae [Laurel family], e.g. laurel, avocado, sassafras, cinnamon or camphor [2009.01]
	obtained therefrom [3]	65/26 . Meliaceae [Chinaberry or Mahogany family], e.g. mahogany, langsat or neem [2009.01]
65/00	Biocides, pest repellants or attractants, or plant growth regulators containing material from algae, lichens, bryophyta, multi-cellular fungi or plants, or	65/28 Myrtaceae [Myrtle family], e.g. teatree or clove [2009.01]
	extracts thereof (containing compounds of determined constitution A01N 27/00 to A01N 59/00) [3,2009.01]	65/30 Polygonaceae [Buckwheat family], e.g. red-knees or rhubarb [2009.01]
65/03	. Algae [2009.01]	65/32 Ranunculaceae [Buttercup family], e.g. hepatica,
65/04	 Pteridophyta [fern allies]; Filicophyta [ferns] [2009.01] 	hydrastis or goldenseal [2009.01] 65/34 Rosaceae [Rose family], e.g. strawberry,
65/06	 Coniferophyta [gymnosperms], e.g. cypress [2009.01] 	hawthorn, plum, cherry, peach, apricot or almond [2009.01]
65/08 65/10	 Magnoliopsida [dicotyledons] [2009.01] Apiaceae or Umbelliferae [Carrot family], 	65/36 . Rutaceae [Rue family], e.g. lime, orange, lemon, corktree or pricklyash [2009.01]
03710	e.g. parsley, caraway, dill, lovage, fennel or snakebed [2009.01]	65/38 Solanaceae [Potato family], e.g. nightshade, tomato, tobacco or chilli pepper [2009.01]
65/12	Asteraceae or Compositae [Aster or Sunflower	65/40 . Liliopsida [monocotyledons] [2009.01]
	family], e.g. daisy, pyrethrum, artichoke, lettuce, sunflower, wormwood or tarragon [2009.01]	65/42 . Aloeaceae [Aloe family] or Liliaceae [Lily family], e.g. aloe, veratrum, onion, garlic or chives [2009.01]
65/14	Celastraceae [Staff-tree or Bittersweet family], e.g. spindle tree, bittersweet or thunder god vine [2009.01]	65/44 . Poaceae or Gramineae [Grass family], e.g. bamboo, lemon grass or citronella grass [2009.01]
65/16	 Ericaceae [Heath or Blueberry family], e.g. rhododendron, arbutus, pieris, cranberry or bilberry [2009.01] 	65/46 . Stemonaceae [Stemona family], e.g. croomia [2009.01]
		65/48 Zingiberaceae [Ginger family], e.g. ginger or galangal [2009.01]

A01P BIOCIDAL, PEST REPELLANT, PEST ATTRACTANT OR PLANT GROWTH REGULATORY ACTIVITY OF CHEMICAL COMPOUNDS OR PREPARATIONS [8]

- (1) This subclass <u>covers</u> biocidal, pest repellant, pest attractant or plant growth regulatory activity of chemical compounds or preparations already classified as such in subclasses A01N or C12N, or in classes C01, C07 or C08. [8]
- (2) Attention is drawn to the notes following the title of subclass A01N, which are also applicable to this subclass. [8]
- (3) In this subclass, activity is classified in all appropriate places. [8]
- (4) The classification symbols of this subclass are not listed first when assigned to patent documents. [8]

1/00	Disinfectants; Antimicrobial compounds or mixtures thereof [8]	13/00 13/02	Herbicides; Algicides [8] . selective [8]
3/00	Fungicides [8]	15/00	Biocides for specific purposes not provided for in
5/00	Nematocides [8]		groups A01P 1/00 to A01P 13/00 [8]
7/00	Arthropodicides [8]	17/00	Pest repellants [8]
7/02	. Acaricides [8]	19/00	Pest attractants [8]
7/04	. Insecticides [8]	21/00	Plant growth regulators [8]
9/00	Molluscicides [8]	23/00	
11/00	Rodenticides [8]	23/00	Chemosterilants [8]