

CPC COOPERATIVE PATENT CLASSIFICATION

A HUMAN NECESSITIES

AGRICULTURE

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

A01D HARVESTING; MOWING {(parts, details or accessories of agricultural machines or implements in general [A01B 51/00](#) - [A01B 75/00](#))}

NOTES

1. This subclass covers the shredding or pulverising of stubble, e.g. for the purpose of producing mulch, but does not cover other mechanical destruction of unwanted vegetation, which is covered by group [A01M 21/02](#)
2. In this subclass, in groups [A01D 34/00](#), [A01D 42/00](#), [A01D 43/00](#), [A01D 57/00](#), [A01D 67/00](#), [A01D 69/00](#) and [A01D 75/00](#), it is desirable to add the indexing code of group [A01D 2101/00](#)

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Hand implements (devices for picking apples or like fruit [A01D 46/24](#); soil-working implements not specially adapted for harvesting [A01B 1/00](#))

1/00 Hand-cutting implements for harvesting (hedge trimming means [A01G 3/04](#); {hand-cutting in general [B26](#); making from sheet metal [B21D 53/72](#); making by rolling [B21H 7/10](#))

- 1/02 . Scythes
- 1/04 . Sickles
- 1/06 . Knives
- 1/08 . Attaching means for blades
- 1/10 . . with fastening by means of eccentric levers
- 1/12 . . with blades adjustable in several ways
- 1/14 . Handles; Accessories, e.g. scythe baskets, safety devices

3/00 Non-abrasive sharpening devices for scythes, sickles or the like (abrasive or similar sharpening devices [B24D 15/06](#))

- 3/02 . with percussive tools
- 3/04 . with pressing jaws
- 3/06 . with pressing rollers or pressing discs
- 3/08 . Details, e.g. scythe anvils, scythe guides

5/00 Containers for whetstones for use during harvesting (whetting implements [B24D 15/00](#))

7/00 Rakes (mowers convertible to rakes or capable of raking [A01D 42/02](#); mowers combined with rakes [A01D 43/02](#); haymakers, crop conditioners [A01D 76/00](#) - [A01D 84/00](#); {making rakes from sheet metal [B21D 53/68](#); making rakes by rolling [B21H 7/08](#))

- 7/02 . with tines rigidly connected to the rake-bar
- 7/04 . with adjustable rake-bar
- 7/06 . with tines specially shaped or attached
- 7/08 . with exchangeable tines
- 7/10 . combined with strippers, grippers or the like

9/00 Forks {(making forks from sheet metal [B21D 53/68](#); making forks by rolling [B21H 7/08](#))}

- 9/02 . with tines rigidly connected to the handle
- 9/04 . with exchangeable tines
- 9/06 . combined with strippers, grippers or the like

11/00 Other hand implements {(for maize [A01D 45/026](#), for cotton [A01D 46/087](#))}

- 11/02 . for lifting or cropping beet, potatoes or other root crops
- 11/025 . . {Knives for topping beets}
- 11/04 . for handling root crops, e.g. shovels, fork-like shovels
- 11/06 . Combined implements, e.g. fork and rake

Machines for harvesting root crops

13/00 Diggers, e.g. potato ploughs

15/00 Digging machines with sieve graters but without conveying mechanisms

- 15/02 . with rigid graters
- 15/04 . with moving or vibrating graters

17/00 Digging machines with sieving and conveying mechanisms

- 17/02 . with conveyors arranged above the sieving device
- 17/04 . with conveyors arranged below the sieving device
- 17/06 . with rollers or disc screens
- 17/08 . with shaker type screens
- 17/10 . with smooth conveyor belts, lath bands or rake bands
- 17/101 . . {with two superposed conveyor belts}
- 2017/103 . . {Constructional details of conveyor belts}
- 2017/105 . . {Driving means for the belt}
- 2017/106 . . {Belts with fingers mounted on them}
- 2017/108 . . {Belts with paddles mounted on them}
- 17/12 . with bucket conveyors
- 17/14 . with cylindrical screens

17/16	. . with a conveyor spiral	33/04	. Stone-separating mechanisms
17/18	. . without a conveyor spiral	33/06	. Haulm-cutting mechanisms
17/20	. . with several co-operating screens	33/08	. Special sorting and cleaning mechanisms
17/22	. . with several co-operating sifter bands	33/10	. Crop collecting devices, with or without weighing apparatus
19/00	Digging machines with centrifugal wheels, drums or spinners	33/105	. . {Devices for gathering the crop in a row}
19/02	. with working tools rotating around a horizontal axis arranged transverse to the direction of travel	33/12	. Driving mechanisms, with or without motor
19/04	. with working tools rotating around a horizontal axis arranged parallel to the direction of travel	33/14	. Lifting or lowering mechanisms for the tools
19/06	. . with scoop wheels or drums	Harvesters or mowers for grass, cereals, or other crops (component parts thereof A01D 57/00 - A01D 69/00 ; accessories therefor A01D 75/00)	
19/08	. . with scoop tine chains	34/00	Mowers (combined with apparatus performing additional operations while mowing A01D 37/00 - A01D 41/00 , A01D 43/00 ; convertible to apparatus for purposes other than mowing or capable of performing operations other than mowing A01D 42/00); Mowing apparatus of harvesters
19/10	. . with receiving screens; Implements for depositing the root crops	34/001	. {Accessories not otherwise provided for}
19/12	. with working tools arranged on an approximately vertical axis	34/003	. . {Means for cleaning the machine}
19/14	. . with one screening wheel	34/005	. . {Mulching means}
19/16	. . with several screening wheels	34/006	. {Control or measuring arrangements}
19/18	. . with screen tine chains	34/008	. . {for automated or remotely controlled operation}
21/00	Digging machines with potato-picking implements	34/01	. characterised by features relating to the type of cutting apparatus
21/02	. with picking tools moved up-and-down	34/015	. . {Cutting mechanisms not covered by another group}
21/04	. with rotating picking tools	34/02	. . having reciprocating cutters
23/00	Topping machines	34/03	. . . mounted on a vehicle, e.g. a tractor, or drawn by an animal or a vehicle
23/02	. cutting the tops before being lifted	34/032	. . . . {drawn by an animal or a vehicle}
2023/022	. . {Rotatable cleaning devices, e.g. brushes, for removing the rests of vegetal material on the root-crops not yet harvested (with cutters A01D 2023/026)}	34/035	. . . . . {with cutter bars driven by a power take-off from the vehicle}
2023/024	. . {Devices with fix blades for topping}	34/037	. . . . . {with additional power-supply}
2023/026	. . {Devices with movable knives for topping, e.g. rotatable cutting disks}	34/04	. . . . with cutters at the front
2023/028	. . . {Cutters rotating around a shaft forming a cutting rotor}	34/043	. . . . . {for cutting at the side}
23/04	. cutting the tops after being lifted (processing of harvested produce in bulk A01F 29/00 , A23N)	34/046	. . . . . {drawn by an animal or a vehicle}
23/06	. with collecting and depositing devices for the tops; Devices for protecting the tops against damage	34/06	. . . . with cutters at the side
25/00	Lifters for beet or like crops	34/065	. . . . . {drawn by an animal or a vehicle}
25/005	. {Auxiliary devices for the lifters}	34/07	. . . . with cutters at the back
25/02	. Machines with rigid tools	34/08	. . . hand-guided by a walking operator
25/04	. Machines with moving or rotating tools	34/10	. . . . with motor driven cutters or wheels
25/042	. . {with driven tools}	34/125	. . . with means for discharging mown material (A01D 57/26 - A01D 57/30 take precedence; combined with means for gathering or loading mown material A01D 43/06)
25/044	. . . {with driven rotating tools}	34/13	. . . Cutting apparatus
25/046	. . . {with oscillating tools}	34/135	. . . . having oppositely movable cooperating knife-bars
25/048	. . . {with endless chains}	34/14	. . . . Knife-bars
27/00	Machines with both topping and lifting mechanisms	34/145	. . . . . {Devices for connecting the knife-bars to the driving mechanism}
27/02	. with rigid tools	34/16	. . . . Guides for the knife-bar in the ledger-plate
27/04	. with moving or rotating tools	34/17	. . . . Holding-down devices for the knife
29/00	Harvesters for peanuts	34/18	. . . . Guard fingers; Ledger-plates
31/00	Other digging harvesters {(for harvesting asparagus A01D 45/007)}	34/20	. . . . Ledger-plate bars
31/02	. combined with other agricultural machines, e.g. drilling, planting, hay-harvesting machines	34/22	. . . . . Shoes therefor
33/00	Accessories for digging harvesters	34/23	. . . . with additional vertical cutter-bar
2033/005	. {Yield crop determination mechanisms for root-crop harvesters}	34/24	. . . Lifting devices for the cutter-bar
33/02	. Foliage-separating mechanisms	34/243	. . . . {Mechanical lifting devices (A01D 34/26 takes precedence)}
		34/246	. . . . {Hydraulic lifting devices}

- 34/26 manually actuated
- 34/27 Devices for disengaging the knife-driving mechanisms during the lifting of the cutter-bar
- 34/28 Adjusting devices for the cutter-bar
- 34/283 {Adjustment of the cutter bar in a vertical plane, i.e. to adjust the angle between the cutter bar and the soil}
- 34/286 {Adjustment of the cutter bar on a horizontal plane, i.e. to adjust the angle between the cutter bar and the tractor}
- 34/30 Driving mechanisms for the cutters
- 34/305 {Balancing}
- 34/32 Connecting-rods for knife-driving mechanisms
- 34/33 Devices for connecting the rod to the knife-bar
- 34/34 Devices for connecting the rod to the crank-pin of the driving mechanism
- 34/36 actuated by advance of the machine
- 34/37 electric
- 34/38 fluid
- 34/40 Other details
- 34/404 having cutters driven to oscillate in a horizontal plane
- 34/408 and cooperating with counter-cutters
- 34/412 having rotating cutters
- 34/416 Flexible line cutters
- 34/4161 {Means for feeding cutter line}
- 34/4162 {automatically}
- 34/4163 {by triggered line feedout, e.g. bump-feeding}
- 34/4165 {Mounting of the cutter head}
- 34/4166 {Mounting or replacement of the lines}
- 34/4167 {Protection devices}
- 34/4168 {Constructional details of the flexible lines}
- 34/42 having cutters rotating about a horizontal axis, e.g. cutting-cylinders
- 34/43 mounted on a vehicle, e.g. a tractor, or drawn by an animal or a vehicle
- 34/435 {Flail harvesters or mowers (cutting flails [A01D 34/535](#))}
- 34/44 with two or more cutters
- 34/46 hand-guided by a walking operator ([A01D 34/43](#) takes precedence)
- 34/47 with motor driven cutters or wheels
- 34/475 {Driving mechanisms (for the cutters [A01D 34/56](#))}
- 34/49 with means for discharging mown material ([A01D 57/26](#) - [A01D 57/30](#) take precedence; combined with means for gathering or loading mown material [A01D 43/06](#))
- 34/52 Cutting apparatus
- 34/53 Helically shaped cutting members
- 34/535 with cutting members pivotally attached to the rotating axle, e.g. flails
- 34/54 Cutting-height adjustment
- 34/56 Driving mechanisms for the cutters
- 34/57 actuated by advance of the machine
- 34/58 electric
- 34/60 fluid
- 34/62 Other details
- 34/63 having cutters rotating about a vertical axis
- 34/64 mounted on a vehicle, e.g. a tractor, or drawn by an animal or a vehicle ([A01D 34/695](#) takes precedence)
- 2034/645 {Lifting means for the cutter of the lawnmower mounted at the front of the vehicle for inspection and maintenance}
- 34/66 with two or more cutters
- 34/661 {Mounting means}
- 34/662 {to the front of the vehicle}
- 34/664 {Disc cutter bars}
- 34/665 {modular}
- 34/667 {Means for directing the cut crop}
- 34/668 {rotating}
- 34/67 hand-guided by a walking operator
- 34/68 with motor driven cutters or wheels
- 34/6806 {Driving mechanisms (for the cutters [A01D 34/76](#))}
- 34/6812 {Braking or clutching mechanisms}
- 34/6818 {Motor starting mechanisms}
- 2034/6825 {being tire driven}
- 2034/6831 {being fluid driven}
- 2034/6837 {Drive connections}
- 2034/6843 {Control levers on the handle of the mower}
- 34/685 with two or more cutters
- 34/69 with motor driven wheels
- 34/695 supported by an air cushion
- 34/71 with means for discharging mown material ([A01D 57/26](#) - [A01D 57/30](#) take precedence; combined with means for gathering or loading mown material [A01D 43/06](#))
- 34/73 Cutting apparatus
- 34/733 {Cutting-blade mounting means}
- 34/736 {Flail type}
- 34/74 Cutting-height adjustment
- 34/76 Driving mechanisms for the cutters
- 34/77 actuated by advance of the machine
- 34/78 electric
- 34/80 fluid
- 34/81 Casings; Housings ([A01D 34/71](#) takes precedence)
- 34/82 Other details
- 34/822 {Devices for guiding or supporting cables}
- 34/824 {Handle arrangements}
- 34/826 {Noise reduction means}
- 34/828 {Safety devices}
- 34/83 having cutting members on endless belts or sprocket chains
- 34/831 {with blades on endless belts}
- 34/833 {with blades on endless sprocket chains}
- 34/835 specially adapted for particular purposes
- 34/8355 {for cutting up or crushing remaining standing stalks, e.g. stubble (mowers combined with means for cutting up, crushing or bruising, the mown crop [A01D 43/08](#), [A01D 43/10](#); apparatus for crushing or bruising mown stalks [A01D 82/00](#); apparatus for cutting up the mown crop [A01F 29/00](#))}
- 34/84 for edges of lawns or fields, e.g. for mowing close to trees or walls ({for embankments [A01D 34/86](#) takes precedence; } hand-held edge trimmers [A01G 3/06](#))

34/86	. . for use on sloping ground, e.g. on embankments {or in ditches} (undercarriages or frames specially adapted for harvesters or mowers A01D 67/00 ; control mechanisms for harvesters or mowers when moving on slopes A01D 75/28)	41/142	. . . {Header drives}
		41/144	. . . {Foldable headers}
		41/145	. . . {Header lifting devices}
		41/147	. . . {Sunflower header attachments}
		41/148	. . . {Telescopic headers}
34/863	. . . {and for mowing around obstacles, e.g. posts, trees, fences or the like (A01D 34/866 takes precedence)}	41/16	. . . Devices for coupling mowing tables to conveyors
34/866	. . . {Mounting means}	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)
34/90	. . for carrying by the operator	42/005	. {Mulching (shredders or like cutting implements for comminuting plant waste <i>per se</i> A01G 3/002)}
34/902	. . . {Ergonomic provisions}	42/02	. Raking
34/905	. . . {Vibration dampening means}	42/04	. Soil working
2034/907	. . . {Control levers for portable mowing machines}	42/06	. Sweeping or cleaning lawns or other surfaces {(sweeping apparatus for lawns <i>per se</i> A01G 20/43)}
37/00	Reaper-binders (features relating to mowing only A01D 34/00, to binding only A01D 39/00; equipment thereon for binding harvested produce, e.g. knotters, A01D 59/00; {bundling articles B65B 13/00})	42/08	. . Sweeping snow
37/02	. with receiving platform and binding apparatus but without elevating canvases {(knotting D04G)}	43/00	Mowers combined with apparatus performing additional operations while mowing (A01D 37/00, A01D 39/00, A01D 41/00, take precedence)
37/04	. conveying the stalks in vertical position {(delivering devices for standing stalks A01D 57/22)}	43/003	. {with devices for drying or burning}
37/06	. binding with stalks or straw bands {(implements for laying-out bands for sheaves A01D 75/16)}	43/006	. {with devices for pressing or compacting}
39/00	Independent binders, e.g. for hay; Binders attachable to mowers (equipment thereon for binding harvested produce, e.g. knotters, A01D 59/00; stationary apparatus or hand tools for forming or binding hay or straw into bundles A01F 1/00; {bundling articles B65B 13/00; knotting D04G})	43/02	. with rakes
39/005	. {Binders combined with devices for picking-up the harvest}	43/04	. with haymakers, e.g. tedders
41/00	Combines, i.e. harvesters or mowers combined with threshing devices (threshing devices for combines A01F 7/00 - A01F 12/00)	43/06	. with means for collecting, gathering or loading mown material {(A01D 43/086 takes precedence; for hay or the like A01D 87/00)}
41/02	. Self-propelled combines	43/063	. . in or into a container carried by the mower; Containers therefor (A01D 43/077 takes precedence)
41/04	. Tractor-driven combines	43/0631	. . . {Control devices specially adapted therefor}
41/06	. Combines with headers	43/0633	. . . {with compacting means}
41/08	. Combines with thresh before the stalk is cut	43/0635	. . . {with emptying means}
41/10	. Field threshers with windrow pick-up apparatus	43/0636	. . . {Flexible containers}
41/12	. Details of combines	43/0638	. . . {Rigid containers}
41/1208	. . {Tanks for grain or chaff (for threshing machines A01F 12/60)}	43/07	. . in or into a trailer (A01D 43/077 takes precedence)
41/1217	. . . {Unloading mechanisms}	43/073	. . . with controllable discharge spout
41/1226	. . . {Extension mechanisms}	43/077	. . with auxiliary means, e.g. fans, for transporting the mown crop
41/1235	. . {Platforms for sacking}	43/0775	. . . {for airborne lawn-mowers}
41/1243	. . {Devices for laying-out or distributing the straw}	43/08	. with means for cutting up the mown crop {, e.g. forage harvesters (threshing machines having chaff-cutters A01F 12/40 ; cutting apparatus of chaff-cutters or of apparatus for cutting up mown crop A01F 29/00)}
41/1252	. . {Anti-dust devices}	43/081	. . {specially adapted for ensilage of maize}
41/1261	. . {Access devices for personnel}	43/082	. . . {Gathering units}
41/127	. . Control or measuring arrangements specially adapted for combines	43/083	. . . . {with belts or chains}
41/1271	. . . {for measuring crop flow}	43/085	. {Control or measuring arrangements specially adapted therefor}
41/1272	. . . . {for measuring grain flow}	43/086	. . {and means for collecting, gathering or loading mown material}
41/1273	. . . . . {for measuring grain loss}	43/087	. . . {with controllable discharge spout}
41/1274	. . . {for drives}	43/088	. . {Mounting means}
41/1275	. . . {for the level of grain in grain tanks}	43/10	. with means for crushing or bruising the mown crop {(stalk crushers or bruisers <i>per se</i> for standing stalks or stubbles A01D 34/8355 , for mown crop A01D 82/00 , for straw A01F 12/40)}
41/1276	. . . {for cleaning mechanisms}		
41/1277	. . . {for measuring grain quality}		
41/1278	. . . {for automatic steering}		
41/133	. . Drying devices		
41/14	. . Mowing tables		
41/141	. . . {Automatic header control}		

- 43/102 . . {Bruising control devices}
- 43/105 . . {Driving mechanisms}
- 43/107 . . {Mounting means}
- 43/12 . with soil-working implements, e.g. ploughs
- 43/14 . with dispensing apparatus, e.g. for fertilisers, herbicides or preservatives
- 43/16 . with lawn edgers
- 44/00 Harvesting of underwater plants, e.g. harvesting of seaweed**
- 44/02 . of laver
- 45/00 Harvesting of standing crops (A01D 44/00 takes precedence; threshing machines adapted for special crops, threshing devices for combines adapted for special crops A01F 11/00; harvesting of mushrooms A01G 18/70)**
- 45/001 . {with arrangements for transport of personnel}
- 45/002 . {of pineapples}
- 45/003 . {of millet, sorghum}
- 45/006 . {of tomatoes}
- 45/007 . {of asparagus}
- 45/008 . {of cucumbers}
- 45/02 . of maize {, i.e. kernel harvesting (for ensilage maize A01D 43/081)}
- 45/021 . . {Cornheaders}
- 45/023 . . . {Gathering chains of belts}
- 45/025 . . . {Snapping rolls}
- 45/026 . . {Hand implements}
- 45/028 . . {Harvesting devices mounted to a vehicle}
- 45/04 . of rice
- 45/06 . of flax {or similar fibrous plants}
- 45/065 . . {of fibrous plants other than flax, e.g. ramie, sisal, hemp, jute, Spanish grass, raffia}
- 45/10 . of sugar cane {(for digging sugar cane A01D 31/00)}
- 45/16 . of tobacco
- 45/22 . of beans
- 45/24 . of peas
- 45/26 . of cabbage or lettuce
- 45/263 . . {of lettuce}
- 45/266 . . {of Brussels sprouts}
- 45/28 . of spinach
- 45/30 . of grass-seeds or like seeds
- 46/00 Picking of fruits, vegetables, hops, or the like; Devices for shaking trees or shrubs**
- NOTE**
- In this group, group A01D 46/30 takes precedence over groups A01D 46/02 - A01D 46/28
- 46/005 . {picking or shaking pneumatically (of cotton A01D 46/10)}
- 46/02 . of hops
- 46/04 . of tea
- 46/06 . of coffee
- 46/08 . of cotton
- 46/081 . . {with harvesters characterised by transversally adjustable row units}
- 46/082 . . {with harvesters characterised by basket means}
- 46/084 . . . {with compacting means}
- 46/085 . . {Control or measuring arrangements specially adapted for cotton harvesters}
- 46/087 . . {Hand implements}
- 46/088 . . {with harvesters characterised by the lubricant distribution systems}
- 46/10 . . pneumatically {(A01D 46/081 - A01D 46/088 take precedence)}
- 46/12 . . using boll-from-plant strippers
- 46/14 . . using lint-from-plant pickers
- 46/16 . . . using rotary or oscillating spindles
- 46/18 mounted on rotary carrier
- 46/20 . Platforms with lifting and lowering devices
- 46/22 . Baskets or bags attachable to the picker
- 46/24 . Devices for picking apples or like fruit (A01D 46/28 {and A01D 46/005} takes precedence)
- 46/243 . . {Accessories specially adapted for manual picking, e.g. ladders, carts}
- 46/247 . . Manually operated fruit-picking tools (A01D 46/26 takes precedence)
- 46/253 . . Portable motorised fruit pickers
- 46/26 . Devices for shaking trees or shrubs; Fruit catching devices to be used therewith (A01D 46/28 takes precedence)
- 2046/262 . . {Collecting surfaces extended around a tree in order to catch the fruit}
- 46/264 . . {Devices for beating or vibrating the foliage; Fruit catching devices to be used therewith}
- 2046/266 . . {Portable devices to shake branches}
- 2046/268 . . {Devices to shake the branches pneumatically powered}
- 46/28 . Vintaging machines, i.e. grape harvesting machines
- 46/285 . . {with means for separating leaves and grapes, e.g. pneumatical means like blowing or aspirating devices}
- 46/30 . Robotic devices for individually picking crops
- 47/00 Headers {for topping of plants, e.g. stalks with ears}**
- 51/00 Apparatus for gathering together crops spread on the soil, e.g. apples, beets, nuts, potatoes {, cotton, cane sugar}**
- 51/002 . {for apples or nuts}
- 51/005 . {Loaders for beets, beetleaf or potatoes}
- 51/007 . {for grains}
- Components of harvesters or mowers for grass or cereals (mowing apparatus A01D 34/00; wheels B60B; wheel scrapers B60S 1/68)**
- 57/00 Delivering mechanisms for harvesters or mowers**
- 57/01 . Devices for leading crops to the mowing apparatus
- 57/02 . . using reels
- 57/025 . . . {with synchronised driving means}
- 57/03 . . . with supplementary controlled movement of the crop-engaging members, e.g. of the tines {(A01D 57/025 takes precedence)}
- 57/04 . . . Arrangements for changing the position of the reels
- 57/05 . . . Detachable reels for converting a mower into a harvester
- 57/06 . . using endless conveyors
- 57/08 . . using swinging rakes
- 57/10 . . using fans
- 57/12 . Rotating rakes
- 57/14 . Single-platform rakes
- 57/16 . Tilting tables
- 57/18 . Bunching devices, e.g. with tipping bars

- 57/20 . with conveyor belts
- 57/22 . for standing stalks
- 57/24 . Grass-boards
- 57/26 . Plates arranged behind the cutter-bar for guiding the cut grass or straw
- 57/28 . Windrower attachments with tines
- 57/30 . Rotating attachments for forming windrows
- 59/00 Equipment for binding harvested produce (specially adapted for baling presses [A01F 15/14](#); bundling articles for packaging in general [B65B 13/00](#))**
- 59/02 . Packers
- 59/04 . Knotters
- 59/06 . Needles
- 59/08 . Discharge arms
- 59/10 . Devices for separating cohering sheaves
- 59/12 . Containers for the twine ([twine balls or their manufacture \[B65H\]\(#\)](#))
- 59/14 . Sheaf counters
- 61/00 Elevators or conveyors for binders or combines {(conveying in general [B65G](#); hoisting, lifting in general [B66](#))}**
- 61/002 . {transversal conveying devices}
- 61/004 . . {with cylindrical tools}
- 61/006 . . {with rollers, e.g. adjustable}
- 61/008 . {for longitudinal conveying, especially for combines}
- 61/02 . Endless belts
- 61/04 . Chains
- 63/00 Outside dividers**
- 63/02 . Rotating dividers
- 63/04 . Non-rotating dividers
- 65/00 Grain-crop lifters**
- 65/02 . Lifting fingers
- 65/04 . with revolving staffs
- 65/06 . Lifting devices arranged on the inner side of the cutter-bar
- 65/08 . Guard attachments for the wheels
- 67/00 Undercarriages or frames specially adapted for harvesters or mowers (coupling arrangements between animal or tractor and harvester or mower [A01B 59/00](#)); Mechanisms for adjusting the frame (adjusting devices for the cutter-bar [A01D 34/28](#)); Platforms**
- 67/005 . {Arrangements of coupling devices}
- 67/02 . Protection against weather
- 67/04 . Seats
- 69/00 Driving mechanisms or parts thereof for harvesters or mowers (driving mechanisms for the cutters of mowers or harvesters [A01D 34/00](#))**
- 69/002 . {driven by power take-off}
- 69/005 . {Non electric hybrid systems, e.g. comprising mechanical and/or hydraulic and/or pneumatic drives}
- 69/007 . {with separate hand drive for cutting tools}
- 69/02 . electric
- 69/025 . . {Electric hybrid systems}
- 69/03 . fluid
- 69/06 . Gearings
- 69/08 . Clutches
- 69/10 . Brakes
- 69/12 . Lubrication
- 75/00 Accessories for harvesters or mowers**
- 75/002 . {Carriers for the transport of harvesters or mowers}
- 75/004 . . {for mowers}
- 75/006 . . {for lawn-mowers}
- 75/008 . {Tool-carrying means}
- 75/02 . Implements for collecting grain crop
- 75/04 . Sheaf carriers
- 75/06 . Sheaf shockers or stokers
- 75/065 . . {hand-operated}
- 75/08 . Sharpening apparatus fixed to the harvester or mower ([sharpening machines or devices per se \[B24B\]\(#\), \[B24D\]\(#\)](#))
- 75/10 . Devices for reconditioning the knife-bar, e.g. removing the knife from its backing
- 75/12 . Instruments for removing the knife-bar from the cutter
- 75/16 . Implements for laying-out bands for sheaves
- 75/18 . Safety devices for parts of the machines ([safety devices in general \[F16P\]\(#\)](#))
- 75/182 . . {Avoiding overload}
- 75/185 . . {Avoiding collisions with obstacles}
- 75/187 . . {Removing foreign objects}
- 75/20 . Devices for protecting men or animals ([safety devices in general \[F16P\]\(#\)](#))
- 2075/203 . . {by stopping driving when lifting frames, e.g. for haymakers}
- 75/206 . . {for mowers carried by operator}
- 75/24 . Special devices for harvesters or mowers drawn by animals
- 75/243 . . {Poles}
- 75/246 . . {Devices for harnessing}
- 75/26 . Front trucks; Axle-pivot steering of front trucks
- 75/265 . . {Support wheels for poles or supporting devices}
- 75/28 . Control mechanisms for harvesters or mowers when moving on slopes; Devices preventing lateral pull
- 75/282 . . {acting on the grain cleaning and separating device ([grain cleaners, separators per se \[A01F 12/44\]\(#\)](#))}
- 75/285 . . {with arrangements for holding the harvesting or mowing apparatus in a horizontal position}
- 75/287 . . {acting on the mowing table ([A01D 75/285 takes precedence](#))}
- 75/30 . Arrangements for trailing two or more mowers
- 75/303 . . {for mowers positioned one behind the other or side by side}
- 75/306 . . {for lawn mowers positioned one behind the other or side by side}
- Haymakers (combined with mowers [A01D 43/04](#)); Crop Conditioners**
- NOTE**
- In groups [A01D 76/00](#) - [A01D 87/00](#), the following terms are used with the meanings indicated:
 - "hay" includes all mowed forage crop in a dry or partially dry state;
 - "haymakers" covers all apparatus working on mowed forage croplying on the ground with the intention to make hay.

- with the exception of "rakes" which are covered by group [A01D 7/00](#)
- 76/00 Haymakers with tines that are stationary with respect to the machine during operation but that may be liftable for dumping**
- 76/003 . {Hand-operated wheeled rakes ([hand-operated rakes A01D 7/00](#))}
 - 76/006 . {Hay-sweeps (rakes for making stacks [A01D 85/001](#); sweep rakes [A01D 87/08](#))}
- 78/00 Haymakers with tines moving with respect to the machine**
- 78/001 . {Side-delivery rakes ([A01D 78/04](#) takes precedence)}
 - 78/002 . . {Drum-turner-tedders with lateral discharge}
 - 78/003 . . {Drum-turner-tedders with throwing wheel}
 - 78/005 . {Turners; Tedders}
 - 78/006 . . {Rotating turners}
 - 78/007 . . . {Control mechanisms therefor}
 - 78/008 . . {with forks}
 - 78/02 . with tine-carrying bars or equivalent members which interconnect heads rotating about horizontal axes, e.g. of rotary-drum type
 - 78/04 . . the tine-carrying members moving obliquely or at right angles to the direction of travel of the machine
 - 78/06 . with tine-carrying endless chains or belts
 - 78/08 . with tine-carrying rotary heads or wheels
 - 78/10 . . the tines rotating about a substantially vertical axis
 - 78/1007 . . . {Arrangements to facilitate transportation specially adapted therefor ([A01D 78/1021](#) takes precedence; for other agricultural machines or implements [A01B 73/00](#); carriers [A01D 80/005](#))}
 - 78/1014 {Folding frames}
 - 78/1021 . . . {Telescopic frames}
 - 78/1028 . . . {Pivotable rotor support arms ([A01D 78/1007](#) takes precedence)}
 - 78/1035 {pivotable by orientation of the support wheels}
 - 78/1042 . . . {Steering devices}
 - 78/105 . . . {Ground support for rotors}
 - 78/1057 . . . {Drive mechanisms}
 - 78/1064 . . . {Arrangements of tines ([A01D 78/1007](#) takes precedence)}
 - 78/1071 . . . {Having only one rotor}
 - 78/1078 . . . {Having only one row of rotors arranged on the same horizontal line perpendicular to the advance direction of the machine}
 - 78/1085 . . . {Having two rows of rotors on two different horizontal lines perpendicular to the advance direction of the machine}
 - 78/1092 . . . {Having more than two rows of rotors on more than two different horizontal lines perpendicular to the advance direction of the machine}
 - 78/12 . . . the tines having an additional movement superimposed upon their rotary movement
 - 78/125 {by a guiding track}
 - 78/14 . . the tines rotating about a substantially horizontal axis
 - 78/142 . . . {Arrangements for transport by movement of the heads carrying rake arms}
- 78/144 {in a vertical plane}
 - 78/146 {in a horizontal plane}
 - 78/148 . . . {Rakes having only one heads carrying arm}
 - 78/16 . . . with positive drive of the heads or wheels
 - 78/18 . . of the reciprocating tine type
 - 78/20 . . the tines reciprocating in a direction parallel to the direction of travel of the machine
- 80/00 Parts or details of {, or accessories for,} haymakers (parts or details specific for one type of machine, see the relevant groups for these machines)**
- 80/005 . {Carriers for the transport of haymakers (arrangements of the haymaker to facilitate transportation [A01D 78/1007](#))}
 - 80/02 . Tines; Attachment of tines
- 82/00 Crop conditioners, i.e. machines for crushing or bruising stalks (combined with harvesters [A01D 43/10](#))**
- 82/02 . Rollers for crop conditioners
- 84/00 Haymakers not provided for in a single one of groups [A01D 76/00](#) - [A01D 82/00](#)**
- 84/02 . with flexible tools
- 85/00 Arrangements for making or setting stacks**
- 85/001 . {making or setting stacks of cereals or grass, e.g. rack formers, fixed haystacks ([rakes for making windrows, haysweeps A01D 76/006](#); drying racks [A01F 25/12](#))}
 - 85/002 . . {with binding equipment, e.g. binding groups of bales}
 - 85/004 . . {with pressing equipment, e.g. vehicles for forming stacks}
 - 85/005 . {Forming groups of bales, e.g. bale sledges (loaders for bales [A01D 87/12](#); vehicles for loading bales [A01D 90/08](#))}
- 2085/007 . . {Machines directly attached to a baler}
 - 2085/008 . . {Making groups of bales just at horizontal level for leaving them on the field}
- 87/00 Loaders for hay or like field crops (combined with mowers [A01D 43/06](#); {loading in forage silos [A01F 25/18](#); } ; loading in general [B65G](#), [B66](#))**
- 87/0007 . {with chopping devices (harvesters with loaders [A01D 43/06](#); forage harvesters [A01D 43/08](#); special adaptations of cutting machines for hay, straw or fodder [A01F 29/00](#))}
 - 87/0015 . {Arrangements for making a strand (forming round bales [A01F 15/07](#))}
 - 87/0023 . {Coupling arrangements between tractors, loaders or vehicles ([for harvesters A01D 67/005](#))}
 - 87/003 . {with gripping or clamping devices ([manure loaders A01C 3/04](#))}
 - 87/0038 . {Dumpboxes or metering devices for loading or unloading}
 - 87/0046 . {Distributing devices at the delivery side of loaders}
 - 87/0053 . {Tractor-mounted loaders ([buck-rakes, transporting rakes A01D 87/08](#); [manure loaders A01C 3/04](#); [fork loaders, fork lifts B66E](#); [earth-moving machines E02F](#))}
 - 87/0061 . . {mounted on the three-point lifting system of the tractor}
 - 87/0069 . . {mounted on the tractor but having their own lifting device}
 - 87/0076 . . . {Front loaders}

- 87/0084 . . . {Rear loaders}
 - 87/0092 . . {Accessories}
 - 87/02 . . with conveyor belts {or conveyor chains, with or without pick-up means}
 - 87/04 . . with rakes feeding crop to the conveyor
 - 87/06 . . with oscillating or reciprocating rake-bars
 - 87/08 . . with sweep rakes {, i.e. buck-rakes, e.g. transporting rakes (gripping or clamping devices [A01D 87/003](#); fork loaders [A01D 87/0053](#))}
 - 87/10 . . with blowers {(blowing and conveying [B65G 53/00](#); loading or distributing arrangements in forage silos [A01F 25/18](#))}
 - 87/12 . . Loaders for sheaves, stacks or bales
 - 87/121 . . {for sheaves, stacks}
 - 87/122 . . {for bales on the ground (vehicles for loading [A01D 90/08](#))}
 - 2087/123 . . . {Manual trolleys for bales}
 - 87/125 . . {mounted on the press without laying down the bales}
 - 87/126 . . {Loaders for stacks or groups of bales}
 - 87/127 . . {Apparatus for handling, loading or unrolling round bales}
 - 2087/128 . . . {Devices for unrolling or breaking round bales}
 - 89/00** **Pick-ups for loaders, chaff-cutters, balers, field-threshers, or the like {, i.e. attachments for picking-up hay or the like field crops (field threshers with windrow pick-up apparatus [A01D 41/10](#))}**
 - 89/001 . . {Pick-up systems}
 - 89/002 . . {Rotors}
 - 89/003 . . {Endless belts}
 - 89/004 . . {Mountings, e.g. height adjustment, wheels, lifting devices}
 - 89/005 . . {Drives}
 - 89/006 . . {Accessories (feeding devices for baling presses [A01F 15/10](#); for cutting machines [A01F 29/10](#))}
 - 89/007 . . {Devices for preparing the picking-up of the windrow}
 - 89/008 . . {Devices cooperating with the pick-up}
 - 90/00** **Vehicles for carrying harvested crops with means for selfloading or unloading (combined with mowers [A01D 43/06](#); load transporting vehicles modified to facilitate loading in general [B60P](#); bucket cars, i.e. having scraper bowls [E02F 3/64](#))**
 - 2090/005 . . {Vehicles for transporting bunches of bananas}
 - 90/02 . . Loading means {(loaders [A01D 87/00](#); pick-ups [A01D 89/00](#))}
 - 90/04 . . with additional cutting means
 - 90/06 . . . with chaff cutters, {i.e. choppers} used as loading and cutting means ([A01D 43/08](#) takes precedence)
 - 90/08 . . with bale-forming means additionally used for loading; with means for picking-up bales and transporting them into the vehicle
 - 90/083 . . . {Round-bale trailers (trailers in general [B62D](#))}
 - 2090/086 . . . {Taking loose material, i.e. before having been baled, into the vehicle}
 - 90/10 . . Unloading means {(manure distributors [A01C 3/06](#))}
 - 90/105 . . {Automatic side-emptying forage wagons}
 - 90/12 . . with additional devices or implements (arrangements of coupling devices [A01B 59/00](#))
 - 90/14 . . Adaptations of gearing for driving, loading or unloading means
 - 90/16 . . self-propelled
 - 91/00** **Methods for harvesting agricultural products (essentially requiring the use of particular machines, see the relevant groups for the machines)**
 - 91/02 . . Products growing in the soil
 - 91/04 . . Products growing above the soil (fruit, hops [A01D 46/00](#))
 - 93/00** **Harvesting apparatus not provided for in other groups of this subclass**
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- 2101/00** **Lawn-mowers**