

CPC COOPERATIVE PATENT CLASSIFICATION

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](#)

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

11/06 . Combined implements, e.g. fork and rake

Machines for harvesting root crops

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 })	13/00	Diggers, e.g. potato ploughs
1/02	. Scythes	15/00	Digging machines with sieve graters but without conveying mechanisms
1/04	. Sickles	15/02	. with rigid graters
1/06	. Knives	15/04	. with moving or vibrating graters
1/08	. Attaching means for blades	17/00	Digging machines with sieving and conveying mechanisms
1/10	. . with fastening by means of eccentric levers	17/02	. with conveyors arranged above the sieving device
1/12	. . with blades adjustable in several ways	17/04	. with conveyors arranged below the sieving device
1/14	. Handles; Accessories, e.g. scythe baskets, safety devices	17/06	. with rollers or disc screens
3/00	Non-abrasive sharpening devices for scythes, sickles or the like (abrasive or similar sharpening devices B24D 15/06)	17/08	. with shaker type screens
3/02	. with percussive tools	17/10	. with smooth conveyor belts, lath bands or rake bands
3/04	. with pressing jaws	17/101	. . {with two superposed conveyor belts}
3/06	. with pressing rollers or pressing discs	2017/103	. . {Constructional details of conveyor belts}
3/08	. Details, e.g. scythe anvils, scythe guides	2017/105	. . {Driving means for the belt}
5/00	Containers for whetstones for use during harvesting (whetting implements B24D 15/00)	2017/106	. . {Belts with fingers mounted on them}
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 })	2017/108	. . {Belts with paddles mounted on them}
7/02	. with tines rigidly connected to the rake-bar	17/12	. with bucket conveyors
7/04	. with adjustable rake-bar	17/14	. with cylindrical screens
7/06	. with tines specially shaped or attached	17/16	. . with a conveyor spiral
7/08	. with exchangeable tines	17/18	. . without a conveyor spiral
7/10	. combined with strippers, grippers or the like	17/20	. . with several co-operating screens
9/00	Forks {(making forks from sheet metal B21D 53/68 ; making forks by rolling B21H 7/08 })	17/22	. . with several co-operating sifter bands
9/02	. with tines rigidly connected to the handle	19/00	Digging machines with centrifugal wheels, drums or spinners
9/04	. with exchangeable tines	19/02	. with working tools rotating around a horizontal axis arranged transverse to the direction of travel
9/06	. combined with strippers, grippers or the like	19/04	. with working tools rotating around a horizontal axis arranged parallel to the direction of travel
11/00	Other hand implements {(for maize A01D 45/026 , for cotton A01D 46/087)}	19/06	. . with scoop wheels or drums
11/02	. for lifting or cropping beet, potatoes or other root crops	19/08	. . with scoop tine chains
11/025	. . {Knives for topping beets}	19/10	. . with receiving screens; Implements for depositing the root crops
11/04	. for handling root crops, e.g. shovels, fork-like shovels	19/12	. with working tools arranged on an approximately vertical axis
		19/14	. . with one screening wheel
		19/16	. . with several screening wheels
		19/18	. . with screen tine chains
		21/00	Digging machines with potato-picking implements
		21/02	. with picking tools moved up-and-down
		21/04	. with rotating picking tools
		23/00	Topping machines

23/02	. cutting the tops before being lifted	34/015	. . {Cutting mechanisms not covered by another group}
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)}	34/02	. . having reciprocating cutters
2023/024	. . {Devices with fix blades for topping}	34/03	. . . mounted on a vehicle, e.g. a tractor, or drawn by an animal or a vehicle
2023/026	. . {Devices with movable knives for topping, e.g. rotatable cutting disks}	34/032	. . . . {drawn by an animal or a vehicle}
2023/028	. . . {Cutters rotating around a shaft forming a cutting rotor}	34/035	. . . . . {with cutter bars driven by a power take-off from the vehicle}
23/04	. cutting the tops after being lifted (processing of harvested produce in bulk A01F 29/00 , A23N)	34/037	. . . . . {with additional power-supply}
23/06	. with collecting and depositing devices for the tops; Devices for protecting the tops against damage	34/04	. . . . with cutters at the front
25/00	Lifters for beet or like crops	34/043	. . . . . {for cutting at the side}
25/005	. {Auxiliary devices for the lifters}	34/046	. . . . . {drawn by an animal or a vehicle}
25/02	. Machines with rigid tools	34/06	. . . . with cutters at the side
25/04	. Machines with moving or rotating tools	34/065	. . . . . {drawn by an animal or a vehicle}
25/042	. . {with driven tools}	34/07	. . . . with cutters at the back
25/044	. . . {with driven rotating tools}	34/08	. . . hand-guided by a walking operator
25/046	. . . {with oscillating tools}	34/10	. . . . with motor driven cutters or wheels
25/048	. . . {with endless chains}	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)
27/00	Machines with both topping and lifting mechanisms	34/13	. . . Cutting apparatus
27/02	. with rigid tools	34/135	. . . . having oppositely movable cooperating knife-bars
27/04	. with moving or rotating tools	34/14	. . . . Knife-bars
29/00	Harvesters for peanuts	34/145	. . . . . {Devices for connecting the knife-bars to the driving mechanism}
31/00	Other digging harvesters {(for harvesting asparagus A01D 45/007)}	34/16	. . . . Guides for the knife-bar in the ledger-plate
31/02	. combined with other agricultural machines, e.g. drilling, planting, hay-harvesting machines	34/17	. . . . Holding-down devices for the knife
33/00	Accessories for digging harvesters	34/18	. . . . Guard fingers; Ledger-plates
2023/005	. {Yield crop determination mechanisms for root-crop harvesters}	34/20	. . . . Ledger-plate bars
33/02	. Foliage-separating mechanisms	34/22	. . . . . Shoes therefor
33/04	. Stone-separating mechanisms	34/23	. . . . with additional vertical cutter-bar
33/06	. Haulm-cutting mechanisms	34/24	. . . Lifting devices for the cutter-bar
33/08	. Special sorting and cleaning mechanisms	34/243	. . . . {Mechanical lifting devices (A01D 34/26 takes precedence)}
33/10	. Crop collecting devices, with or without weighing apparatus	34/246	. . . . . {Hydraulic lifting devices}
33/105	. . {Devices for gathering the crop in a row}	34/26	. . . . manually actuated
33/12	. Driving mechanisms, with or without motor	34/27	. . . . Devices for disengaging the knife-driving mechanisms during the lifting of the cutter-bar
33/14	. Lifting or lowering mechanisms for the tools	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

Harvesters or mowers for grass, cereals, or other crops

(component parts thereof [A01D 57/00](#) - [A01D 69/00](#); accessories therefor [A01D 75/00](#))

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
34/001	. {Accessories not otherwise provided for}
34/003	. . {Means for cleaning the machine}
34/005	. . {Mulching means}
34/006	. {Control or measuring arrangements}
34/008	. . {for automated or remotely controlled operation}
34/01	. characterised by features relating to the type of cutting apparatus

- 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 {Construotional 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](#))
- 34/863 {and for mowing around obstacles, e.g. posts, trees, fences or the like ([A01D 34/866](#) takes precedence)}
- 34/866 {Mounting means}
- 34/90 . . . for carrying by the operator
- 34/902 {Ergonomic provisions}
- 34/905 {Vibration dampening means}
- 2034/907 {Control levers for portable mowing machines}
- 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](#)})
- 37/02 . . . with receiving platform and binding apparatus but without elevating canvases ({knotting [D04G](#)})
- 37/04 . . . conveying the stalks in vertical position ({delivering devices for standing stalks [A01D 57/22](#)})
- 37/06 . . . binding with stalks or straw bands ({implements for laying-out bands for sheaves [A01D 75/16](#)})

- 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](#)})
- 39/005 . {Binders combined with devices for picking-up the harvest}
- 41/00 Combines, i.e. harvesters or mowers combined with threshing devices** (threshing devices for combines [A01F 7/00](#) - [A01F 12/00](#))
- 41/02 . Self-propelled combines
- 41/04 . Tractor-driven combines
- 41/06 . Combines with headers
- 41/08 . Combines with thresh before the stalk is cut
- 41/10 . Field threshers with windrow pick-up apparatus
- 41/12 . Details of combines
- 41/1208 . . {Tanks for grain or chaff (for threshing machines [A01F 12/60](#))}
- 41/1217 . . . {Unloading mechanisms}
- 41/1226 . . . {Extension mechanisms}
- 41/1235 . . {Platforms for sacking}
- 41/1243 . . {Devices for laying-out or distributing the straw}
- 41/1252 . . {Anti-dust devices}
- 41/1261 . . {Access devices for personnel}
- 41/127 . . Control or measuring arrangements specially adapted for combines
- 41/1271 . . . {for measuring crop flow}
- 41/1272 {for measuring grain flow}
- 41/1273 {for measuring grain loss}
- 41/1274 . . . {for drives}
- 41/1275 . . . {for the level of grain in grain tanks}
- 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}
- 41/142 . . . {Header drives}
- 41/144 . . . {Foldable headers}
- 41/145 . . . {Header lifting devices}
- 41/147 . . . {Sunflower header attachments}
- 41/148 . . . {Telescopic headers}
- 41/16 . . . Devices for coupling mowing tables to conveyors
- 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](#))
- 42/005 . {Mulching (shredders or like cutting implements for comminuting plant waste *per se* [A01G 3/002](#))}
- 42/02 . Raking
- 42/04 . Soil working
- 42/06 . Sweeping or cleaning lawns or other surfaces {(sweeping apparatus for lawns *per se* [A01G 1/125](#))}
- 42/08 . . Sweeping snow
- 43/00 Mowers combined with apparatus performing additional operations while mowing** ([A01D 37/00](#), [A01D 39/00](#), [A01D 41/00](#), take precedence)
- 43/003 . {with devices for drying or burning}
- 43/006 . {with devices for pressing or compacting}
- 43/02 . with rakes
- 43/04 . with haymakers, e.g. tedders
- 43/06 . with means for collecting, gathering or loading mown material {([A01D 43/086](#) takes precedence; for hay or the like [A01D 87/00](#))}
- 43/063 . . in or into a container carried by the mower; Containers therefor ([A01D 43/077](#) takes precedence)
- 43/0631 . . . {Control devices specially adapted therefor}
- 43/0633 . . . {with compacting means}
- 43/0635 . . . {with emptying means}
- 43/0636 . . . {Flexible containers}
- 43/0638 . . . {Rigid containers}
- 43/07 . . in or into a trailer ([A01D 43/077](#) takes precedence)
- 43/073 . . . with controllable discharge spout
- 43/077 . . with auxiliary means, e.g. fans, for transporting the mown crop
- 43/0775 . . . {for airborne lawn-mowers}
- 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](#))}
- 43/081 . . {specially adapted for ensilage of maize}
- 43/082 . . . {Gathering units}
- 43/083 {with belts or chains}
- 43/085 . . {Control or measuring arrangements specially adapted therefor}
- 43/086 . . {and means for collecting, gathering or loading mown material}
- 43/087 . . . {with controllable discharge spout}
- 43/088 . . {Mounting means}
- 43/10 . with means for crushing or bruising the mown crop {(stalk crushers or bruisers *per se* for standing stalks or stubbles [A01D 34/8355](#), for mown crop [A01D 82/00](#), for straw [A01F 12/40](#))}
- 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](#))
- 45/001 . {with arrangements for transport of personnel}
- 45/002 . {of pineapples}
- 45/003 . {of millet, sorghum}
- 45/005 . {of mushrooms}
- 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}	2046/266	. . {Portable devices to shake branches}
45/023	. . . {Gathering chains of belts}	2046/268	. . {Devices to shake the branches pneumatically powered}
45/025	. . . {Snapping rolls}	46/28	. Vintaging machines, i.e. grape harvesting machines
45/026	. . {Hand implements}	46/285	. . {with means for separating leaves and grapes, e.g. pneumatical means like blowing or aspirating devices}
45/028	. . {Harvesting devices mounted to a vehicle}	46/30	. Robotic devices for individually picking crops
45/04	. of rice	47/00	Headers {for topping of plants, e.g. stalks with ears}
45/06	. of flax {or similar fibrous plants}	51/00	Apparatus for gathering together crops spread on the soil, e.g. apples, beets, nuts, potatoes, {cotton, cane sugar}
45/065	. . {of fibrous plants other than flax, e.g. ramie, sisal, hemp, jute, Spanish grass, raffia}	51/002	. {for apples or nuts}
45/10	. of sugar cane {(for digging sugar cane A01D 31/00)}	51/005	. {Loaders for beets, beetleaf or potatoes}
45/16	. of tobacco	51/007	. {for grains}
45/22	. of beans	Components of harvesters or mowers for grass or cereals (mowing apparatus A01D 34/00 ; wheels B60B ; wheel scrapers B60S 1/68)	
45/24	. of peas	57/00	Delivering mechanisms for harvesters or mowers
45/26	. of cabbage or lettuce	57/01	. Devices for leading crops to the mowing apparatus
45/263	. . {of lettuce}	57/02	. . using reels
45/266	. . {of Brussels sprouts}	57/025	. . . {with synchronised driving means}
45/28	. of spinach	57/03	. . . with supplementary controlled movement of the crop-engaging members, e.g. of the tines {(A01D 57/025 takes precedence)}
45/30	. of grass-seeds or like seeds	57/04	. . . Arrangements for changing the position of the reels
46/00	Picking of fruits, vegetables, hops, or the like; Devices for shaking trees or shrubs	57/05	. . . Detachable reels for converting a mower into a harvester
	NOTE	57/06	. . using endless conveyors
	In this group, group A01D 46/30 takes precedence over groups A01D 46/02 - A01D 46/28	57/08	. . using swinging rakes
46/005	. {picking or shaking pneumatically (of cotton A01D 46/10)}	57/10	. . using fans
46/02	. of hops	57/12	. Rotating rakes
46/04	. of tea	57/14	. Single-platform rakes
46/06	. of coffee	57/16	. Tilting tables
46/08	. of cotton	57/18	. Bunching devices, e.g. with tipping bars
46/081	. . {with harvesters characterised by transversally adjustable row units}	57/20	. with conveyor belts
46/082	. . {with harvesters characterised by basket means}	57/22	. for standing stalks
46/084	. . . {with compacting means}	57/24	. Grass-boards
46/085	. . {Control or measuring arrangements specially adapted for cotton harvesters}	57/26	. Plates arranged behind the cutter-bar for guiding the cut grass or straw
46/087	. . {Hand implements}	57/28	. Windrower attachments with tines
46/088	. . {with harvesters characterised by the lubricant distribution systems}	57/30	. Rotating attachments for forming windrows
46/10	. . pneumatically {(A01D 46/081 - A01D 46/088 take precedence)}	59/00	Equipment for binding harvested produce (specially adapted for baling presses A01F 15/14 ; bundling articles for packaging in general B65B 13/00)
46/12	. . using boll-from-plant strippers	59/02	. Packers
46/14	. . using lint-from-plant pickers	59/04	. Knotters
46/16	. . . using rotary or oscillating spindles	59/06	. Needles
46/18	. . . . mounted on rotary carrier	59/08	. Discharge arms
46/20	. Platforms with lifting and lowering devices	59/10	. Devices for separating cohering sheaves
46/22	. Baskets or bags attachable to the picker	59/12	. Containers for the twine (twine balls or their manufacture B65H)
46/24	. Devices for picking apples or like fruit (A01D 46/28 {and A01D 46/005 } takes precedence)	59/14	. Sheaf counters
46/243	. . {Accessories specially adapted for manual picking, e.g. ladders, carts}	61/00	Elevators or conveyors for binders or combines {conveying in general B65G ; hoisting, lifting in general B66 }
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}		

- 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 cropland 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	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)}
78/08	• with tine-carrying rotary heads or wheels	85/002	• • {with binding equipment, e.g. binding groups of bales}
78/10	• • the tines rotating about a substantially vertical axis	85/004	• • {with pressing equipment, e.g. vehicles for forming stacks}
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)}	85/005	• {Forming groups of bales, e.g. bale sledges (loaders for bales A01D 87/12 ; vehicles for loading bales A01D 90/08)}
78/1014	• • • • {Folding frames}	2085/007	• • {Machines directly attached to a baler}
78/1021	• • • {Telescopic frames}	2085/008	• • {Making groups of bales just at horizontal level for leaving them on the field}
78/1028	• • • {Pivotable rotor support arms (A01D 78/1007 takes precedence)}		
78/1035	• • • • {pivotable by orientation of the support wheels}	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)
78/1042	• • • {Steering devices}	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)}
78/105	• • • {Ground support for rotors}	87/0015	• {Arrangements for making a strand (forming round bales A01F 15/07)}
78/1057	• • • {Drive mechanisms}	87/0023	• {Coupling arrangements between tractors, loaders or vehicles (for harvesters A01D 67/005)}
78/1064	• • • {Arrangements of tines (A01D 78/1007 takes precedence)}	87/003	• {with gripping or clamping devices (manure loaders A01C 3/04)}
78/1071	• • • {Having only one rotor}	87/0038	• {Dumpboxes or metering devices for loading or unloading}
78/1078	• • • {Having only one row of rotors arranged on the same horizontal line perpendicular to the advance direction of the machine}	87/0046	• {Distributing devices at the delivery side of loaders}
78/1085	• • • {Having two rows of rotors on two different horizontal lines perpendicular to the advance direction of the machine}	87/0053	• {Tractor-mounted loaders (buck-rakes, transporting rakes A01D 87/08 ; manure loaders A01C 3/04 ; fork loaders, fork lifts B66F ; earth-moving machines E02F)}
78/1092	• • • {Having more than two rows of rotors on more than two different horizontal lines perpendicular to the advance direction of the machine}	87/0061	• • {mounted on the three-point lifting system of the tractor}
78/12	• • • the tines having an additional movement superimposed upon their rotary movement	87/0069	• • {mounted on the tractor but having their own lifting device}
78/125	• • • • {by a guiding track}	87/0076	• • • {Front loaders}
78/14	• • the tines rotating about a substantially horizontal axis	87/0084	• • • {Rear loaders}
78/142	• • • {Arrangements for transport by movement of the heads carrying rake arms}	87/0092	• • {Accessories}
78/144	• • • • {in a vertical plane}	87/02	• with conveyor belts {or conveyor chains, with or without pick-up means}
78/146	• • • • {in a horizontal plane}	87/04	• • with rakes feeding crop to the conveyor
78/148	• • • {Rakes having only one heads carrying arm}	87/06	• with oscillating or reciprocating rake-bars
78/16	• • • with positive drive of the heads or wheels	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)}
78/18	• of the reciprocating tine type	87/10	• with blowers {(blowing and conveying B65G 53/00 ; loading or distributing arrangements in forage silos A01F 25/18)}
78/20	• • the tines reciprocating in a direction parallel to the direction of travel of the machine	87/12	• Loaders for sheaves, stacks or bales
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)	87/121	• • {for sheaves, stacks}
80/005	• {Carriers for the transport of haymakers (Arrangements of the haymaker to facilitate transportation A01D 78/1007)}	87/122	• • {for bales on the ground (vehicles for loading A01D 90/08)}
80/02	• Tines; Attachment of tines	2087/123	• • • {Manual trolleys for bales}
82/00	Crop conditioners, i.e. machines for crushing or bruising stalks (combined with harvesters A01D 43/10)	87/125	• • {mounted on the press without laying down the bales}
82/02	• Rollers for crop conditioners	87/126	• • {Loaders for stacks or groups of bales}
84/00	Haymakers not provided for in a single one of groups A01D 76/00 - A01D 82/00	87/127	• • {Apparatus for handling, loading or unrolling round bales}
84/02	• with flexible tools	2087/128	• • • {Devices for unrolling or breaking round bales}
85/00	Arrangements for making or setting stacks		

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 self-loading 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

2101/00 Lawn-mowers