CPC COOPERATIVE PATENT CLASSIFICATION

A HUMAN NECESSITIES

AGRICULTURE

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

A01C PLANTING; SOWING; FERTILISING (parts, details or accessories of agricultural machines or implements, in general A01B 51/00 - A01B 75/00)

1/00	Apparatus, or methods of use thereof, for testing or treating seed, roots, or the like, prior to sowing	5/08	Machines for both manuring and sowing or both manuring and planting
1/005	or planting	7/00	Sowing
1/005	• {Potato seed cutters}	7/002	• {Dibble seeders}
1/02	 Germinating apparatus; Determining germination capacity of seeds or the like 	7/004	• {using liquid seeding techniques}
1/025	Testing seeds for determining their viability or	7/006	• {Minimum till seeding}
1/023	germination capacity}	7/008	• {Sod or grassland seeding (A01C 7/08 takes
1/04	 Arranging seed on carriers, e.g. on tapes, on cords {; 		precedence)}
1/01	Carrier compositions}	7/02	 Hand sowing implements
1/042	• • {Tapes, bands or cords}	7/04	• Single-grain seeders with or without suction devices
1/044	• • {Sheets, multiple sheets or mats}	7/042	• • {using pneumatic means}
1/046	• • {Carrier compositions}		WARNING
2001/048	• • {Machines}		Crown A01C 7/042 is immediately
1/06	 Coating or dressing seed 		Group A01C 7/042 is impacted by reclassification into groups A01C 7/0443 and
1/08	. Immunising seed		A01C 7/0445.
3/00	Treating manure; Manuring		Groups A01C 7/042, A01C 7/0443 and
3/02	Storage places for manure, e.g. cisterns for liquid manure; Installations for fermenting manure		A01C 7/0445 should be considered in order to perform a complete search.
3/021	• • {for composted manure}	7/044	{Pneumatic seed wheels}
3/023	• • {Digesters}	77011	
3/025	• • {with heat recuperation means}		<u>WARNING</u>
3/026	• • {with mixing or agitating devices}		Group A01C 7/044 is impacted by
3/028	 {Covers, roofs or other structures for covering manure storage places} 		reclassification into groups $\underline{A01C7/0445}$ and $\underline{A01C7/0443}$.
3/04	Manure loaders		Groups A01C 7/044, A01C 7/0445 and
3/06	 Manure distributors, e.g. dung distributors 		A01C 7/0443 should be considered in order
3/063	• • {Side-spreaders}		to perform a complete search.
3/066	• • {Spreading by using worm or screw conveyors}	7/0443	{Seed singulators}
3/08	for manure already laying on the soil	770443	
5/00	Making or covering furrows or holes for sowing,		<u>WARNING</u>
	planting or manuring (ploughs for making ridges		Group A01C 7/0443 is incomplete
	A01B 13/02)		pending reclassification of documents
5/02	 Hand tools for making holes for sowing, planting or manuring 		from groups <u>A01C 7/042</u> , <u>A01C 7/044</u> and <u>A01C 7/046</u> .
5/04	 Machines for making or covering holes for sowing or planting 		All groups listed in this Warning should be considered in order to perform a
5/045	• • {with piercing buckets}		complete search.
5/06	 Machines for making or covering drills or furrows for sowing or planting 		
5/062	• • {Devices for making drills or furrows}		
5/064	• • • {with rotating tools}		
5/066	• • {Devices for covering drills or furrows}		
5/068	• • {Furrow packing devices, e.g. press wheels}		

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7/0445	{Seed ejectors}	7/18	. Machines for depositing quantities of seed at
	WARNING		intervals
		7/185	• • {Foot valves}
	Group A01C 7/0445 is incomplete	7/20	 Parts of seeders for conducting and depositing seed
	pending reclassification of documents	7/201	• • {Mounting of the seeding tools}
	from groups <u>A01C 7/042</u> , <u>A01C 7/044</u>	7/203	• • {comprising depth regulation means}
	and <u>A01C 7/046</u> .	7/205	• • {comprising pressure regulation means}
	All groups listed in this Warning should	7/206	• • {Seed pipes}
	be considered in order to perform a	7/208	• {Chassis; Coupling means to a tractor or the like;
	complete search.		Lifting means; Side markers}
7/046	• • • { with perforated seeding discs}	9/00	Potato planters
	WARNING	9/02	 with conveyor belts
	Group A01C 7/046 is impacted by	9/04	 with bucket wheels
	reclassification into groups A01C 7/0445	9/06	 with piercing or grasping devices
	and A01C 7/0443.	9/08	 with other distributing devices, e.g. flaps, screws,
	Groups A01C 7/046, A01C 7/0445 and		horizontal turning plates
	A01C 7/0443 should be considered in	11/00	Transplanting machines
	order to perform a complete search.		
	1	11/003	 {for aquatic plants; for planting underwater, e.g. rice}
7/048	• • {Seed tape planters}	11/006	,
7/06	 Seeders combined with fertilising apparatus 	11/006	• {Other parts or details or planting machines}
7/08	. Broadcast seeders; Seeders depositing seeds in rows	11/02	• for seedlings
7/081	• • {Seeders depositing seeds in rows using	11/025	• • {Transplanting machines using seedling trays;
	pneumatic means}		Devices for removing the seedlings from the
7/082	{Ducts, distribution pipes or details thereof for	44/04	trays}
	pneumatic seeders}	11/04	 for deeper setting or shifting of plants
7/084	• • {Pneumatic distribution heads for seeders}	13/00	Machines or apparatus for consolidating soil
7/085	• • {Broadcast seeders}		around plants
7/087	{Tramlining}		-
7/088	• {Sectional seeding}	14/00	Methods or apparatus for planting not provided
7/10	Devices for adjusting the seed-box {; Regulation		for in other groups of this subclass
7710		15/00	Fertiliser distributors ({combined with seeders}
	of machines for depositing quantities at intervals \	15/00	
7/102	of machines for depositing quantities at intervals}	15/00	
7/102 7/105	• • • {Regulating or controlling the seed rate}		<u>A01C 7/06</u>)
7/105	 {Regulating or controlling the seed rate} {Seed sensors}	15/001	A01C 7/06) • {with slowly turning wheels}
7/105 7/107	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate}	15/001 15/002	A01C 7/06){ with slowly turning wheels }{ with oscillating distributing spouts }
7/105 7/107 7/12	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} . Seeders with feeding wheels 	15/001	 A01C 7/06) { with slowly turning wheels } { with oscillating distributing spouts } { Bulk fertiliser or grain handling in the field or on
7/105 7/107 7/12 7/121	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} . Seeders with feeding wheels {for sowing seeds of different sizes} 	15/001 15/002 15/003	 A01C 7/06) { with slowly turning wheels } { with oscillating distributing spouts } { Bulk fertiliser or grain handling in the field or on the farm }
7/105 7/107 7/12	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} . Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using 	15/001 15/002	 A01C 7/06) { with slowly turning wheels } { with oscillating distributing spouts } { Bulk fertiliser or grain handling in the field or on
7/105 7/107 7/12 7/121 7/122	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} . Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} 	15/001 15/002 15/003	 A01C 7/06) { with slowly turning wheels } { with oscillating distributing spouts } { Bulk fertiliser or grain handling in the field or on the farm } { Undercarriages, tanks, hoppers, stirrers specially
7/105 7/107 7/12 7/121 7/122 7/123	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} . Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {Housings for feed rollers or wheels} 	15/001 15/002 15/003 15/005	 A01C 7/06) {with slowly turning wheels} {with oscillating distributing spouts} {Bulk fertiliser or grain handling in the field or on the farm} {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} . {Hoppers}
7/105 7/107 7/12 7/121 7/122 7/123 7/124	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} . Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {Housings for feed rollers or wheels} {with top delivery of the seeds} 	15/001 15/002 15/003 15/005 15/006 15/007	 A01C 7/06) {with slowly turning wheels} {with oscillating distributing spouts} {Bulk fertiliser or grain handling in the field or on the farm} {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} {Hoppers} {with agitators in the hopper}
7/105 7/107 7/12 7/121 7/122 7/123 7/124 7/125	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} . Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {Housings for feed rollers or wheels} {with top delivery of the seeds} {with bottom delivery of the seeds} 	15/001 15/002 15/003 15/005	 A01C 7/06) {with slowly turning wheels} {with oscillating distributing spouts} {Bulk fertiliser or grain handling in the field or on the farm} {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} . {Hoppers}
7/105 7/107 7/12 7/121 7/122 7/123 7/124 7/125 7/126	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {Housings for feed rollers or wheels} {with top delivery of the seeds} {with bottom delivery of the seeds} {Stubbed rollers or wheels} 	15/001 15/002 15/003 15/005 15/006 15/007	 A01C 7/06) {with slowly turning wheels} {with oscillating distributing spouts} {Bulk fertiliser or grain handling in the field or on the farm} {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} {Hoppers} {with agitators in the hopper} {Aprons; Deflecting plates; Band-spreading attachments}
7/105 7/107 7/12 7/121 7/122 7/123 7/124 7/125 7/126 7/127	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {Housings for feed rollers or wheels} {with top delivery of the seeds} {with bottom delivery of the seeds} {Stubbed rollers or wheels} {Cell rollers, wheels, discs or belts} 	15/001 15/002 15/003 15/005 15/006 15/007 15/008	 A01C 7/06) {with slowly turning wheels} {with oscillating distributing spouts} {Bulk fertiliser or grain handling in the field or on the farm} {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} {Hoppers} {with agitators in the hopper} {Aprons; Deflecting plates; Band-spreading attachments} for hand use
7/105 7/107 7/12 7/121 7/122 7/123 7/124 7/125 7/126 7/127 7/128	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {Housings for feed rollers or wheels} {with top delivery of the seeds} {with bottom delivery of the seeds} {Stubbed rollers or wheels} {Cell rollers, wheels, discs or belts} {Cell discs} 	15/001 15/002 15/003 15/005 15/006 15/007 15/008 15/02 15/04	 A01C 7/06) {with slowly turning wheels} {with oscillating distributing spouts} {Bulk fertiliser or grain handling in the field or on the farm} {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} {Hoppers} {with agitators in the hopper} {Aprons; Deflecting plates; Band-spreading attachments} for hand use using blowers
7/105 7/107 7/12 7/121 7/122 7/123 7/124 7/125 7/126 7/127 7/128 7/14	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {Housings for feed rollers or wheels} {with top delivery of the seeds} {with bottom delivery of the seeds} {Stubbed rollers or wheels} {Cell rollers, wheels, discs or belts} {Cell discs} Seeders with spoon or bucket wheels 	15/001 15/002 15/003 15/005 15/006 15/007 15/008	 A01C 7/06) {with slowly turning wheels} {with oscillating distributing spouts} {Bulk fertiliser or grain handling in the field or on the farm} {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} {Hoppers} {with agitators in the hopper} {Aprons; Deflecting plates; Band-spreading attachments} for hand use using blowers with distributing slots {, e.g. adjustable openings for
7/105 7/107 7/12 7/121 7/122 7/123 7/124 7/125 7/126 7/127 7/128	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {Housings for feed rollers or wheels} {with top delivery of the seeds} {with bottom delivery of the seeds} {Stubbed rollers or wheels} {Cell rollers, wheels, discs or belts} {Cell discs} Seeders with spoon or bucket wheels Seeders with other distributing devices, e.g. 	15/001 15/002 15/003 15/005 15/006 15/007 15/008 15/02 15/04 15/06	 A01C 7/06) {with slowly turning wheels} {with oscillating distributing spouts} {Bulk fertiliser or grain handling in the field or on the farm} {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} {Hoppers} {with agitators in the hopper} {Aprons; Deflecting plates; Band-spreading attachments} for hand use using blowers with distributing slots {, e.g. adjustable openings for dosing}
7/105 7/107 7/12 7/121 7/122 7/123 7/124 7/125 7/126 7/127 7/128 7/14 7/16	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {Housings for feed rollers or wheels} {with top delivery of the seeds} {with bottom delivery of the seeds} {Stubbed rollers or wheels} {Cell rollers, wheels, discs or belts} {Cell discs} Seeders with spoon or bucket wheels Seeders with other distributing devices, e.g. brushes, discs, screws or slides 	15/001 15/002 15/003 15/005 15/006 15/007 15/008 15/02 15/04 15/06	 A01C 7/06) {with slowly turning wheels} {with oscillating distributing spouts} {Bulk fertiliser or grain handling in the field or on the farm} {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} {Hoppers} {with agitators in the hopper} {Aprons; Deflecting plates; Band-spreading attachments} for hand use using blowers with distributing slots {, e.g. adjustable openings for dosing} with pushers or stirrers in the slots
7/105 7/107 7/12 7/121 7/122 7/123 7/124 7/125 7/126 7/127 7/128 7/14 7/16	 Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {Housings for feed rollers or wheels} {with top delivery of the seeds} {with bottom delivery of the seeds} {Stubbed rollers or wheels} {Cell rollers, wheels, discs or belts} {Cell discs} Seeders with spoon or bucket wheels Seeders with other distributing devices, e.g. brushes, discs, screws or slides {Gravity distributors} 	15/001 15/002 15/003 15/005 15/006 15/007 15/008 15/02 15/04 15/06	 A01C 7/06) {with slowly turning wheels} {with oscillating distributing spouts} {Bulk fertiliser or grain handling in the field or on the farm} {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} {Hoppers} {with agitators in the hopper} {Aprons; Deflecting plates; Band-spreading attachments} for hand use using blowers with distributing slots {, e.g. adjustable openings for dosing} with pushers or stirrers in the slots with reciprocating pushers {or stirrers in front
7/105 7/107 7/12 7/121 7/122 7/123 7/124 7/125 7/126 7/127 7/128 7/14 7/16 7/163 7/166	 Regulating or controlling the seed rate} Seed sensors} {Calibration of the seed rate} Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {Housings for feed rollers or wheels} {with top delivery of the seeds} {with bottom delivery of the seeds} {Stubbed rollers or wheels} {Cell rollers, wheels, discs or belts} {Cell discs} Seeders with spoon or bucket wheels Seeders with other distributing devices, e.g. brushes, discs, screws or slides {Gravity distributors} {Centrifugal distributors} 	15/001 15/002 15/003 15/005 15/006 15/007 15/008 15/02 15/04 15/06 15/08 15/10	 A01C 7/06) {with slowly turning wheels} {with oscillating distributing spouts} {Bulk fertiliser or grain handling in the field or on the farm} {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} {Hoppers} {with agitators in the hopper} {Aprons; Deflecting plates; Band-spreading attachments} for hand use using blowers with distributing slots {, e.g. adjustable openings for dosing} with pushers or stirrers in the slots with reciprocating pushers {or stirrers in front of the slots}
7/105 7/107 7/12 7/121 7/122 7/123 7/124 7/125 7/126 7/127 7/128 7/14 7/16	 Regulating or controlling the seed rate} Seed sensors} {Calibration of the seed rate} Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {Housings for feed rollers or wheels} {with top delivery of the seeds} {with bottom delivery of the seeds} {Stubbed rollers or wheels} {Cell rollers, wheels, discs or belts} {Cell discs} Seeders with spoon or bucket wheels Seeders with other distributing devices, e.g. brushes, discs, screws or slides {Gravity distributors} {Centrifugal distributors} 	15/001 15/002 15/003 15/005 15/006 15/007 15/008 15/02 15/04 15/06 15/08 15/10	 A01C 7/06) {with slowly turning wheels} {with oscillating distributing spouts} {Bulk fertiliser or grain handling in the field or on the farm} {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} {Hoppers} {With agitators in the hopper} {Aprons; Deflecting plates; Band-spreading attachments} for hand use using blowers with distributing slots {, e.g. adjustable openings for dosing} with pushers or stirrers in the slots with reciprocating pushers {or stirrers in front of the slots} with movable parts of the receptacle
7/105 7/107 7/12 7/121 7/122 7/123 7/124 7/125 7/126 7/127 7/128 7/14 7/16 7/163 7/166	 Regulating or controlling the seed rate} Seed sensors} {Calibration of the seed rate} Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {Housings for feed rollers or wheels} {with top delivery of the seeds} {with bottom delivery of the seeds} {Stubbed rollers or wheels} {Cell rollers, wheels, discs or belts} {Cell discs} Seeders with spoon or bucket wheels Seeders with other distributing devices, e.g. brushes, discs, screws or slides {Gravity distributors} {Centrifugal distributors} 	15/001 15/002 15/003 15/005 15/006 15/007 15/008 15/02 15/04 15/06 15/08 15/10	 A01C 7/06) {with slowly turning wheels} {with oscillating distributing spouts} {Bulk fertiliser or grain handling in the field or on the farm} {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} {Hoppers} {with agitators in the hopper} {Aprons; Deflecting plates; Band-spreading attachments} for hand use using blowers with distributing slots {, e.g. adjustable openings for dosing} with pushers or stirrers in the slots with reciprocating pushers {or stirrers in front of the slots} with movable parts of the receptacle {with moving floor parts}
7/105 7/107 7/12 7/121 7/122 7/123 7/124 7/125 7/126 7/127 7/128 7/14 7/16 7/163 7/166	 Regulating or controlling the seed rate} Seed sensors} {Calibration of the seed rate} Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {Housings for feed rollers or wheels} {with top delivery of the seeds} {with bottom delivery of the seeds} {Stubbed rollers or wheels} {Cell rollers, wheels, discs or belts} {Cell discs} Seeders with other distributing devices, e.g. brushes, discs, screws or slides {Gravity distributors} {Centrifugal distributors} WARNING Group A01C 7/166 is no longer used 	15/001 15/002 15/003 15/005 15/006 15/007 15/008 15/02 15/04 15/06 15/08 15/10 15/12 15/122 15/124	 A01C 7/06) {with slowly turning wheels} {with oscillating distributing spouts} {Bulk fertiliser or grain handling in the field or on the farm} {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} {Hoppers} {with agitators in the hopper} {Aprons; Deflecting plates; Band-spreading attachments} for hand use using blowers with distributing slots {, e.g. adjustable openings for dosing} with pushers or stirrers in the slots with reciprocating pushers {or stirrers in front of the slots} with movable parts of the receptacle {with moving floor parts} {with adjustable shutters or slits}
7/105 7/107 7/12 7/121 7/122 7/123 7/124 7/125 7/126 7/127 7/128 7/14 7/16 7/163 7/166	 Regulating or controlling the seed rate} Seed sensors} {Calibration of the seed rate} Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {Housings for feed rollers or wheels} {with top delivery of the seeds} {with bottom delivery of the seeds} {Stubbed rollers or wheels} {Cell rollers, wheels, discs or belts} {Cell discs} Seeders with spoon or bucket wheels Seeders with other distributing devices, e.g. brushes, discs, screws or slides {Gravity distributors} {Centrifugal distributors} WARNING Group A01C 7/166 is no longer used for the classification of documents as of 	15/001 15/002 15/003 15/005 15/006 15/007 15/008 15/02 15/04 15/06 15/08 15/10 15/12 15/124 15/124 15/126	 A01C 7/06) {with slowly turning wheels} {with oscillating distributing spouts} {Bulk fertiliser or grain handling in the field or on the farm} {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} {Hoppers} {with agitators in the hopper} {Aprons; Deflecting plates; Band-spreading attachments} for hand use using blowers with distributing slots {, e.g. adjustable openings for dosing} with pushers or stirrers in the slots with reciprocating pushers {or stirrers in front of the slots} with movable parts of the receptacle {with moving floor parts} {with adjustable shutters or slits} {with pushers or stirrers in the slits}
7/105 7/107 7/12 7/121 7/122 7/123 7/124 7/125 7/126 7/127 7/128 7/14 7/16 7/163 7/166	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {Housings for feed rollers or wheels} {with top delivery of the seeds} {with bottom delivery of the seeds} {Stubbed rollers or wheels} {Cell rollers, wheels, discs or belts} {Cell discs} Seeders with spoon or bucket wheels Seeders with other distributing devices, e.g. brushes, discs, screws or slides {Gravity distributors} {Centrifugal distributors} {Centrifugal distributors} WARNING Group A01C 7/166 is no longer used for the classification of documents as of May 1, 2023. 	15/001 15/002 15/003 15/005 15/006 15/007 15/008 15/02 15/04 15/06 15/08 15/10 15/12 15/122 15/124	 A01C 7/06) {with slowly turning wheels} {with oscillating distributing spouts} {Bulk fertiliser or grain handling in the field or on the farm} {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} {Hoppers} {with agitators in the hopper} {Aprons; Deflecting plates; Band-spreading attachments} for hand use using blowers with distributing slots {, e.g. adjustable openings for dosing} with pushers or stirrers in the slots with reciprocating pushers {or stirrers in front of the slots} with movable parts of the receptacle {with moving floor parts} {with adjustable shutters or slits} {with pushers or stirrers in the slits} {with pushers or stirrers in front of the slits}
7/105 7/107 7/12 7/121 7/122 7/123 7/124 7/125 7/126 7/127 7/128 7/14 7/16 7/163 7/166	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {Housings for feed rollers or wheels} {with top delivery of the seeds} {with bottom delivery of the seeds} {Stubbed rollers or wheels} {Cell rollers, wheels, discs or belts} {Cell discs} Seeders with spoon or bucket wheels Seeders with other distributing devices, e.g. brushes, discs, screws or slides {Gravity distributors} {Centrifugal distributors} {Centrifugal distributors} WARNING Group A01C 7/166 is no longer used for the classification of documents as of May 1, 2023. The content of this group is being 	15/001 15/002 15/003 15/005 15/006 15/007 15/008 15/02 15/04 15/06 15/08 15/10 15/12 15/122 15/122 15/124 15/126 15/128	 A01C 7/06) {with slowly turning wheels} {with oscillating distributing spouts} {Bulk fertiliser or grain handling in the field or on the farm} {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} {Hoppers} {With agitators in the hopper} {Aprons; Deflecting plates; Band-spreading attachments} for hand use using blowers with distributing slots {, e.g. adjustable openings for dosing} with pushers or stirrers in the slots with reciprocating pushers {or stirrers in front of the slots} with movable parts of the receptacle {with moving floor parts} {with adjustable shutters or slits} {with pushers or stirrers in front of the slits} {with pushers or stirrers in front of the slits {with pushers or stirrers in front of the slits
7/105 7/107 7/12 7/121 7/122 7/123 7/124 7/125 7/126 7/127 7/128 7/14 7/16 7/163 7/166	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {Housings for feed rollers or wheels} {with top delivery of the seeds} {with bottom delivery of the seeds} {Stubbed rollers or wheels} {Cell rollers, wheels, discs or belts} {Cell discs} Seeders with spoon or bucket wheels Seeders with other distributing devices, e.g. brushes, discs, screws or slides {Gravity distributors} {Centrifugal distributors} {Centrifugal distributors} The content of this group is being reclassified into groups AOIC 17/00, 	15/001 15/002 15/003 15/005 15/006 15/007 15/008 15/02 15/04 15/06 15/08 15/10 15/12 15/122 15/124 15/126 15/128	A01C 7/06) • {with slowly turning wheels} • {with oscillating distributing spouts} • {Bulk fertiliser or grain handling in the field or on the farm} • {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} • • {Hoppers} • • {with agitators in the hopper} • • {Aprons; Deflecting plates; Band-spreading attachments} • for hand use • using blowers • with distributing slots {, e.g. adjustable openings for dosing} • • with pushers or stirrers in the slots • • with reciprocating pushers {or stirrers in front of the slots} • with movable parts of the receptacle • {with moving floor parts} • • {with adjustable shutters or slits} • • {with pushers or stirrers in front of the slits} • • {with pushers or stirrers in front of the slits (with endless chains AOIC 15/18)} • with means for lifting out the fertiliser
7/105 7/107 7/12 7/121 7/122 7/123 7/124 7/125 7/126 7/127 7/128 7/14 7/16 7/163 7/166	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {Housings for feed rollers or wheels} {with top delivery of the seeds} {with bottom delivery of the seeds} {Stubbed rollers or wheels} {Cell rollers, wheels, discs or belts} {Cell discs} Seeders with spoon or bucket wheels Seeders with other distributing devices, e.g. brushes, discs, screws or slides {Gravity distributors} {Centrifugal distributors} {Centrifugal distributors} {Centrifugal distributors} {The content of this group is being reclassified into groups AOIC 17/00, AOIC 17/001, AOIC 17/003, AOIC 17/005, 	15/001 15/002 15/003 15/005 15/006 15/007 15/008 15/02 15/04 15/06 15/08 15/10 15/12 15/122 15/122 15/124 15/126 15/128	 A01C 7/06) {with slowly turning wheels} {with oscillating distributing spouts} {Bulk fertiliser or grain handling in the field or on the farm} {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} {Hoppers} {With agitators in the hopper} {Aprons; Deflecting plates; Band-spreading attachments} for hand use using blowers with distributing slots {, e.g. adjustable openings for dosing} with pushers or stirrers in the slots with reciprocating pushers {or stirrers in front of the slots} with movable parts of the receptacle {with moving floor parts} {with adjustable shutters or slits} {with pushers or stirrers in the slits} {with pushers or stirrers in front of the slits (with endless chains A01C 15/18)} with means for lifting out the fertiliser with means for pushing out the fertiliser, e.g. by a
7/105 7/107 7/12 7/121 7/122 7/123 7/124 7/125 7/126 7/127 7/128 7/14 7/16 7/163 7/166	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {With gedivery of the seeds} {with top delivery of the seeds} {with bottom delivery of the seeds} {Cell rollers or wheels} {Cell discs} Seeders with spoon or bucket wheels Seeders with other distributing devices, e.g. brushes, discs, screws or slides {Gravity distributors} {Centrifugal distributors} {Centrifug	15/001 15/002 15/003 15/005 15/006 15/007 15/008 15/02 15/04 15/06 15/08 15/10 15/12 15/122 15/124 15/126 15/128	A01C 7/06) • {with slowly turning wheels} • {with oscillating distributing spouts} • {Bulk fertiliser or grain handling in the field or on the farm} • {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} • • {Hoppers} • • {with agitators in the hopper} • • {Aprons; Deflecting plates; Band-spreading attachments} • for hand use • using blowers • with distributing slots {, e.g. adjustable openings for dosing} • • with pushers or stirrers in the slots • • with reciprocating pushers {or stirrers in front of the slots} • with movable parts of the receptacle • {with moving floor parts} • • {with adjustable shutters or slits} • • {with pushers or stirrers in front of the slits (with endless chains A01C 15/18)} • with means for pushing out the fertiliser, e.g. by a roller
7/105 7/107 7/12 7/121 7/122 7/123 7/124 7/125 7/126 7/127 7/128 7/14 7/16 7/163 7/166	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {With top delivery of the seeds} {with top delivery of the seeds} {with bottom delivery of the seeds} {Cell rollers or wheels} {Cell discs} Seeders with spoon or bucket wheels Seeders with other distributing devices, e.g. brushes, discs, screws or slides {Gravity distributors} {Centrifugal distributors} {Centr	15/001 15/002 15/003 15/005 15/006 15/007 15/008 15/02 15/04 15/06 15/08 15/10 15/12 15/122 15/124 15/126 15/128	A01C 7/06) • {with slowly turning wheels} • {with oscillating distributing spouts} • {Bulk fertiliser or grain handling in the field or on the farm} • {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} • • {Hoppers} • • {with agitators in the hopper} • • {Aprons; Deflecting plates; Band-spreading attachments} • for hand use • using blowers • with distributing slots {, e.g. adjustable openings for dosing} • • with pushers or stirrers in the slots • • with reciprocating pushers {or stirrers in front of the slots} • with movable parts of the receptacle • {with moving floor parts} • • {with adjustable shutters or slits} • • {with pushers or stirrers in front of the slits (with endless chains AOIC 15/18)} • with means for pushing out the fertiliser • with endless chains {, i.e. side transporting
7/105 7/107 7/12 7/121 7/122 7/123 7/124 7/125 7/126 7/127 7/128 7/14 7/16 7/163 7/166	 {Regulating or controlling the seed rate} {Seed sensors} {Calibration of the seed rate} Seeders with feeding wheels {for sowing seeds of different sizes} {using more than one feeding wheel; using double-run feeding wheels} {With gedivery of the seeds} {with top delivery of the seeds} {with bottom delivery of the seeds} {Cell rollers or wheels} {Cell discs} Seeders with spoon or bucket wheels Seeders with other distributing devices, e.g. brushes, discs, screws or slides {Gravity distributors} {Centrifugal distributors} {Centrifug	15/001 15/002 15/003 15/005 15/006 15/007 15/008 15/02 15/04 15/06 15/08 15/10 15/12 15/122 15/124 15/126 15/128	A01C 7/06) • {with slowly turning wheels} • {with oscillating distributing spouts} • {Bulk fertiliser or grain handling in the field or on the farm} • {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors} • • {Hoppers} • • {with agitators in the hopper} • • {Aprons; Deflecting plates; Band-spreading attachments} • for hand use • using blowers • with distributing slots {, e.g. adjustable openings for dosing} • • with pushers or stirrers in the slots • • with reciprocating pushers {or stirrers in front of the slots} • with movable parts of the receptacle • {with moving floor parts} • • {with adjustable shutters or slits} • • {with pushers or stirrers in front of the slits (with endless chains A01C 15/18)} • with means for pushing out the fertiliser • with means for pushing out the fertiliser, e.g. by a roller

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17/00

WARNING Groups A01C 17/00 - A01C 17/008 are incomplete pending reclassification of documents from group A01C 7/166. All groups listed in this Warning should be considered in order to perform a complete search. 17/001 • {Centrifugal throwing devices with a vertical axis} 17/003 • {Centrifugal throwing devices with a horizontal 17/005 • {Driving mechanisms for the throwing devices} 17/006 • {Regulating or dosing devices} 17/008 • • {Devices controlling the quantity or the distribution pattern} 19/00 Arrangements for driving working parts of fertilisers or seeders {(A01C 17/005 takes precedence)} 19/02 . by a motor 19/04 . by a ground-engaging wheel 19/045 . . {the drive coupling being controlled by lifting or lowering of the seeding tools} 21/00 Methods of fertilising {, sowing or planting} 21/002 • {Apparatus for sowing fertiliser; Fertiliser drill} 21/005 • {Following a specific plan, e.g. pattern} 21/007 • {Determining fertilization requirements} 23/00 Distributing devices specially adapted for liquid manure or other fertilising liquid, including ammonia, e.g. transport tanks or sprinkling wagons 23/001 • {Sludge spreaders, e.g. liquid manure spreaders} • • {provided with auxiliary arrangements, e.g. 23/002 pumps, agitators, cutters} 23/003 • • {Distributing devices, e.g. for rotating, throwing} 23/005 • • {Nozzles, valves, splash plates} 23/006 • {Distribution of liquid fertilisers by gravity flow} 23/007 • {Metering or regulating systems} 23/008 • {Tanks, chassis or related parts} 23/02 . Special arrangements for delivering the liquid directly into the soil • • {Sludge injectors, i.e. liquid manure injectors} 23/021 23/022 . . . {Continuous injection tools} 23/023 • • {for liquid or gas fertilisers} • • { for ammonia } 23/024 • • {Continuous injection tools} 23/025 23/026 . . . {Localised non-continuous injection tools, e.g. pal injectors, spike wheels} 23/027 . . {Other methods for delivering fertiliser into the soil) 23/028 • • {Contactless injection into the soil} 23/04 . Distributing under pressure; Distributing mud; Adaptation of watering systems for fertilisingliquids 23/042 • • {Adding fertiliser to watering systems} 23/045 • • {Filling devices for liquid manure or slurry tanks} 23/047 • • {Spraying of liquid fertilisers}

Fertilisers or seeders with centrifugal wheels

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