

# 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](#))

<b>1/00</b>	<b>Apparatus, or methods of use thereof, for testing or treating seed, roots, or the like, prior to sowing or planting</b>	<b>5/08</b>	• Machines for both manuring and sowing or both manuring and planting
1/005	• {Potato seed cutters}	<b>7/00</b>	<b>Sowing</b>
1/02	• Germinating apparatus; Determining germination capacity of seeds or the like	7/002	• {Dibble seeders}
1/025	• • {Testing seeds for determining their viability or germination capacity}	7/004	• {using liquid seeding techniques}
1/04	• Arranging seed on carriers, e.g. on tapes, on cords {; Carrier compositions}	7/006	• {Minimum till seeding}
1/042	• • {Tapes, bands or cords}	7/008	• {Sod or grassland seeding ( <a href="#">A01C 7/08</a> takes precedence)}
1/044	• • {Sheets, multiple sheets or mats}	7/02	• Hand sowing implements
1/046	• • {Carrier compositions}	7/04	• Single-grain seeders with or without suction devices
2001/048	• • {Machines}	7/042	• • {using pneumatic means}
1/06	• Coating or dressing seed	7/044	• • • {Pneumatic seed wheels}
1/08	• Immunising seed	7/0443	• • • • {Seed singulators}
<b>3/00</b>	<b>Treating manure; Manuring</b>	7/0445	• • • • {Seed ejectors}
3/02	• Storage places for manure, e.g. cisterns for liquid manure; Installations for fermenting manure	7/046	• • • • {with perforated seeding discs}
3/021	• • {for composted manure}	7/048	• • {Seed tape planters}
3/023	• • {Digesters}	7/06	• Seeders combined with fertilising apparatus
3/025	• • {with heat recuperation means}	7/08	• Broadcast seeders; Seeders depositing seeds in rows
3/026	• • {with mixing or agitating devices}	7/081	• • {Seeders depositing seeds in rows using pneumatic means}
3/028	• • {Covers, roofs or other structures for covering manure storage places}	7/082	• • • {Ducts, distribution pipes or details thereof for pneumatic seeders}
3/04	• Manure loaders	7/084	• • • {Pneumatic distribution heads for seeders}
3/06	• Manure distributors, e.g. dung distributors	7/085	• • {Broadcast seeders}
3/063	• • {Side-spreaders}	7/087	• • {Tramlining}
3/066	• • {Spreading by using worm or screw conveyors}	7/088	• • {Sectional seeding}
3/08	• • for manure already laying on the soil	7/10	• • Devices for adjusting the seed-box {; Regulation of machines for depositing quantities at intervals}
<b>5/00</b>	<b>Making or covering furrows or holes for sowing, planting or manuring (<a href="#">ploughs for making ridges A01B 13/02</a>)</b>	7/102	• • • {Regulating or controlling the seed rate}
5/02	• Hand tools for making holes for sowing, planting or manuring	7/105	• • • • {Seed sensors}
5/04	• Machines for making or covering holes for sowing or planting	7/107	• • • {Calibration of the seed rate}
5/045	• • {with piercing buckets}	7/12	• • Seeders with feeding wheels
5/06	• Machines for making or covering drills or furrows for sowing or planting	7/121	• • • {for sowing seeds of different sizes}
5/062	• • {Devices for making drills or furrows}	7/122	• • • • {using more than one feeding wheel; using double-run feeding wheels}
5/064	• • • {with rotating tools}	7/123	• • • • {Housings for feed rollers or wheels}
5/066	• • {Devices for covering drills or furrows}	7/124	• • • • • {with top delivery of the seeds}
5/068	• • • {Furrow packing devices, e.g. press wheels}	7/125	• • • • • {with bottom delivery of the seeds}
		7/126	• • • • {Stubbed rollers or wheels}
		7/127	• • • • {Cell rollers, wheels, discs or belts}
		7/128	• • • • • {Cell discs}
		7/14	• • • Seeders with spoon or bucket wheels
		7/16	• • Seeders with other distributing devices, e.g. brushes, discs, screws or slides
		7/163	• • • {Gravity distributors}

7/18	• Machines for depositing quantities of seed at intervals	<b>17/00</b>	<b>Fertilisers or seeders with centrifugal wheels</b>
7/185	• . {Foot valves}	17/001	• {Centrifugal throwing devices with a vertical axis}
7/20	• Parts of seeders for conducting and depositing seed	17/003	• {Centrifugal throwing devices with a horizontal axis}
7/201	• . {Mounting of the seeding tools}	17/005	• {Driving mechanisms for the throwing devices}
7/203	• . . {comprising depth regulation means}	17/006	• {Regulating or dosing devices}
7/205	• . . {comprising pressure regulation means}	17/008	• . {Devices controlling the quantity or the distribution pattern}
7/206	• . {Seed pipes}		
7/208	• . {Chassis; Coupling means to a tractor or the like; Lifting means; Side markers}	<b>19/00</b>	<b>Arrangements for driving working parts of fertilisers or seeders {<a href="#">(A01C 17/005 takes precedence)</a>}</b>
<b>9/00</b>	<b>Potato planters</b>	19/02	• by a motor
9/02	• with conveyor belts	19/04	• by a ground-engaging wheel
9/04	• with bucket wheels	19/045	• . {the drive coupling being controlled by lifting or lowering of the seeding tools}
9/06	• with piercing or grasping devices		
9/08	• with other distributing devices, e.g. flaps, screws, horizontal turning plates	<b>21/00</b>	<b>Methods of fertilising {, sowing or planting}</b>
<b>11/00</b>	<b>Transplanting machines</b>	21/002	• {Apparatus for sowing fertiliser; Fertiliser drill}
11/003	• {for aquatic plants; for planting underwater, e.g. rice}	21/005	• {Following a specific plan, e.g. pattern}
11/006	• {Other parts or details of planting machines}	21/007	• {Determining fertilization requirements}
11/02	• for seedlings		
11/025	• . {Transplanting machines using seedling trays; Devices for removing the seedlings from the trays}	<b>23/00</b>	<b>Distributing devices specially adapted for liquid manure or other fertilising liquid, including ammonia, e.g. transport tanks or sprinkling wagons</b>
11/04	• for deeper setting or shifting of plants	23/001	• {Sludge spreaders, e.g. liquid manure spreaders}
<b>13/00</b>	<b>Machines or apparatus for consolidating soil around plants</b>	23/002	• . {provided with auxiliary arrangements, e.g. pumps, agitators, cutters}
<b>14/00</b>	<b>Methods or apparatus for planting not provided for in other groups of this subclass</b>	23/003	• . {Distributing devices, e.g. for rotating, throwing}
<b>15/00</b>	<b>Fertiliser distributors {<a href="#">(combined with seeders A01C 7/06)</a>}</b>	23/005	• . . {Nozzles, valves, splash plates}
15/001	• {with slowly turning wheels}	23/006	• {Distribution of liquid fertilisers by gravity flow}
15/002	• {with oscillating distributing spouts}	23/007	• {Metering or regulating systems}
15/003	• {Bulk fertiliser or grain handling in the field or on the farm}	23/008	• {Tanks, chassis or related parts}
15/005	• {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors}	23/02	• Special arrangements for delivering the liquid directly into the soil
15/006	• . {Hoppers}	23/021	• . {Sludge injectors, i.e. liquid manure injectors}
15/007	• . . {with agitators in the hopper}	23/022	• . . {Continuous injection tools}
15/008	• . {Aprons; Deflecting plates; Band-spreading attachments}	23/023	• . {for liquid or gas fertilisers}
15/02	• for hand use	23/024	• . . {for ammonia}
15/04	• using blowers	23/025	• . . {Continuous injection tools}
15/06	• with distributing slots {, e.g. adjustable openings for dosing}	23/026	• . . {Localised non-continuous injection tools, e.g. pal injectors, spike wheels}
15/08	• . with pushers or stirrers in the slots	23/027	• . {Other methods for delivering fertiliser into the soil}
15/10	• . . with reciprocating pushers {or stirrers in front of the slots}	23/028	• . . {Contactless injection into the soil}
15/12	• with movable parts of the receptacle	23/04	• Distributing under pressure; Distributing mud; Adaptation of watering systems for fertilising-liquids
15/122	• . {with moving floor parts}	23/042	• . {Adding fertiliser to watering systems}
15/124	• . {with adjustable shutters or slits}	23/045	• . {Filling devices for liquid manure or slurry tanks}
15/126	• . . {with pushers or stirrers in the slits}	23/047	• . {Spraying of liquid fertilisers}
15/128	• . . {with pushers or stirrers in front of the slits <a href="#">(with endless chains A01C 15/18)</a> }		
15/14	• with means for lifting out the fertiliser		
15/16	• with means for pushing out the fertiliser, e.g. by a roller		
15/18	• with endless chains {, i.e. side transporting elements, e.g. auger or screw conveyors, swash plates}		