

# 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](#))

<p><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></p> <p>1/005    . {Potato seed cutters}</p> <p>1/02     . Germinating apparatus; Determining germination capacity of seeds or the like</p> <p>1/025    . . {Testing seeds for determining their viability or germination capacity}</p> <p>1/04     . Arranging seed on carriers, e.g. on tapes, on cords {; Carrier compositions}</p> <p>1/042    . . {Tapes, bands or cords}</p> <p>1/044    . . {Sheets, multiple sheets or mats}</p> <p>1/046    . . {Carrier compositions}</p> <p>2001/048 . . {Machines}</p> <p>1/06     . Coating or dressing seed</p> <p>1/08     . Immunising seed</p> <p><b>3/00</b>    <b>Treating manure; Manuring</b></p> <p>3/02     . Storage places for manure, e.g. cisterns for liquid manure; Installations for fermenting manure</p> <p>3/021    . . {for composted manure}</p> <p>3/023    . . {Digesters}</p> <p>3/025    . . {with heat recuperation means}</p> <p>3/026    . . {with mixing or agitating devices}</p> <p>3/028    . . {Covers, roofs or other structures for covering manure storage places}</p> <p>3/04     . Manure loaders</p> <p>3/06     . Manure distributors, e.g. dung distributors</p> <p>3/063    . . {Side-spreaders}</p> <p>3/066    . . {Spreading by using worm or screw conveyors}</p> <p>3/08     . . for manure already laying on the soil</p> <p><b>5/00</b>    <b>Making or covering furrows or holes for sowing, planting or manuring</b> (<a href="#">ploughs for making ridges A01B 13/02</a>)</p> <p>5/02     . Hand tools for making holes for sowing, planting or manuring</p> <p>5/04     . Machines for making or covering holes for sowing or planting</p> <p>5/045    . . {with piercing buckets}</p> <p>5/06     . Machines for making or covering drills or furrows for sowing or planting</p> <p>5/062    . . {Devices for making drills or furrows}</p> <p>5/064    . . . {with rotating tools}</p> <p>5/066    . . {Devices for covering drills or furrows}</p> <p>5/068    . . . {Furrow packing devices, e.g. press wheels}</p>	<p>5/08     . Machines for both manuring and sowing or both manuring and planting</p> <p><b>7/00</b>    <b>Sowing</b></p> <p>7/002    . {Dibble seeders}</p> <p>7/004    . {using liquid seeding techniques}</p> <p>7/006    . {Minimum till seeding}</p> <p>7/008    . {Sod or grassland seeding (<a href="#">A01C 7/08</a> takes precedence)}</p> <p>7/02     . Hand sowing implements</p> <p>7/04     . Single-grain seeders with or without suction devices</p> <p>7/042    . . {using pneumatic means}</p> <p><b>WARNING</b></p> <p>Group <a href="#">A01C 7/042</a> is impacted by reclassification into groups <a href="#">A01C 7/0443</a> and <a href="#">A01C 7/0445</a>.</p> <p>Groups <a href="#">A01C 7/042</a>, <a href="#">A01C 7/0443</a> and <a href="#">A01C 7/0445</a> should be considered in order to perform a complete search.</p> <p>7/044    . . . {Pneumatic seed wheels}</p> <p><b>WARNING</b></p> <p>Group <a href="#">A01C 7/044</a> is impacted by reclassification into groups <a href="#">A01C 7/0445</a> and <a href="#">A01C 7/0443</a>.</p> <p>Groups <a href="#">A01C 7/044</a>, <a href="#">A01C 7/0445</a> and <a href="#">A01C 7/0443</a> should be considered in order to perform a complete search.</p> <p>7/0443   . . . . {Seed singulators}</p> <p><b>WARNING</b></p> <p>Group <a href="#">A01C 7/0443</a> is incomplete pending reclassification of documents from groups <a href="#">A01C 7/042</a>, <a href="#">A01C 7/044</a> and <a href="#">A01C 7/046</a>.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
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- 7/0445 . . . . {Seed ejectors}
- WARNING**
- Group [A01C 7/0445](#) is incomplete pending reclassification of documents from groups [A01C 7/042](#), [A01C 7/044](#) and [A01C 7/046](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 7/046 . . . . {with perforated seeding discs}
- WARNING**
- Group [A01C 7/046](#) is impacted by reclassification into groups [A01C 7/0445](#) and [A01C 7/0443](#).
- Groups [A01C 7/046](#), [A01C 7/0445](#) and [A01C 7/0443](#) should be considered in order to perform a complete search.
- 7/048 . . {Seed tape planters}
- 7/06 . Seeders combined with fertilising apparatus
- 7/08 . Broadcast seeders; Seeders depositing seeds in rows
- 7/081 . . {Seeders depositing seeds in rows using pneumatic means}
- 7/082 . . . {Ducts, distribution pipes or details thereof for pneumatic seeders}
- 7/084 . . . {Pneumatic distribution heads for seeders}
- 7/085 . . {Broadcast seeders}
- 7/087 . . {Tramlining}
- 7/088 . . {Sectional seeding}
- 7/10 . . Devices for adjusting the seed-box {; Regulation of machines for depositing quantities at intervals}
- 7/102 . . . {Regulating or controlling the seed rate}
- 7/105 . . . . {Seed sensors}
- 7/107 . . . {Calibration of the seed rate}
- 7/12 . . Seeders with feeding wheels
- 7/121 . . . {for sowing seeds of different sizes}
- 7/122 . . . . {using more than one feeding wheel; using double-run feeding wheels}
- 7/123 . . . {Housings for feed rollers or wheels}
- 7/124 . . . . {with top delivery of the seeds}
- 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}
- 7/166 . . . {Centrifugal distributors}
- (Frozen)
- 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 reclassified into groups [A01C 17/00](#), [A01C 17/001](#), [A01C 17/003](#), [A01C 17/005](#), [A01C 17/006](#) and [A01C 17/008](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 7/18 . Machines for depositing quantities of seed at intervals
- 7/185 . . {Foot valves}
- 7/20 . Parts of seeders for conducting and depositing seed
- 7/201 . . {Mounting of the seeding tools}
- 7/203 . . . {comprising depth regulation means}
- 7/205 . . . {comprising pressure regulation means}
- 7/206 . . {Seed pipes}
- 7/208 . . {Chassis; Coupling means to a tractor or the like; Lifting means; Side markers}
- 9/00**
- Potato planters**
- 9/02 . with conveyor belts
- 9/04 . with bucket wheels
- 9/06 . with piercing or grasping devices
- 9/08 . with other distributing devices, e.g. flaps, screws, horizontal turning plates
- 11/00**
- Transplanting machines**
- 11/003 . {for aquatic plants; for planting underwater, e.g. rice}
- 11/006 . {Other parts or details of planting machines}
- 11/02 . for seedlings
- 11/025 . . {Transplanting machines using seedling trays; Devices for removing the seedlings from the trays}
- 11/04 . for deeper setting or shifting of plants
- 13/00**
- Machines or apparatus for consolidating soil around plants**
- 14/00**
- Methods or apparatus for planting not provided for in other groups of this subclass**
- 15/00**
- Fertiliser distributors ({combined with seeders} [A01C 7/06](#))**
- 15/001 . {with slowly turning wheels}
- 15/002 . {with oscillating distributing spouts}
- 15/003 . {Bulk fertiliser or grain handling in the field or on the farm}
- 15/005 . {Undercarriages, tanks, hoppers, stirrers specially adapted for seeders or fertiliser distributors}
- 15/006 . . {Hoppers}
- 15/007 . . . {with agitators in the hopper}
- 15/008 . . {Aprons; Deflecting plates; Band-spreading attachments}
- 15/02 . for hand use
- 15/04 . using blowers
- 15/06 . with distributing slots {, e.g. adjustable openings for dosing}
- 15/08 . . with pushers or stirrers in the slots
- 15/10 . . . with reciprocating pushers {or stirrers in front of the slots}
- 15/12 . with movable parts of the receptacle
- 15/122 . . {with moving floor parts}
- 15/124 . . {with adjustable shutters or slits}
- 15/126 . . . {with pushers or stirrers in the slits}
- 15/128 . . . {with pushers or stirrers in front of the slits (with endless chains [A01C 15/18](#))}
- 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}

**17/00 Fertilisers or seeders with centrifugal wheels****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 axis}
- 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}
- 23/002 . . {provided with auxiliary arrangements, e.g. 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
- 23/021 . . {Sludge injectors, i.e. liquid manure injectors}
- 23/022 . . . {Continuous injection tools}
- 23/023 . . {for liquid or gas fertilisers}
- 23/024 . . . {for ammonia}
- 23/025 . . . {Continuous injection tools}
- 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 fertilising-liquids
- 23/042 . . {Adding fertiliser to watering systems}
- 23/045 . . {Filling devices for liquid manure or slurry tanks}
- 23/047 . . {Spraying of liquid fertilisers}