A01C  PLANTING; SOWING; FERTILISING  (combined with general working of soil
A01B 49/04; parts, details or accessories of agricultural machines or implements, in general
A01B 51/00 - A01B 75/00; {apparatus for spreading sand or salt E01C; sowing and fertilising
with aircraft B64D 1/16 - B64D 1/20})

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

1/00  Apparatus, or methods of use thereof, for
       testing or treating seed, roots, or the like,
       prior to sowing or planting 
       (chemicals therefor
       A01N 25/00 - A01N 65/00 {irradiation in general
       B01J 19/08})
1/005  .  {Potato seed cutters}
1/006  .  Germinating apparatus; Determining germination
capacity of seeds or the like (germinating in
preparation of malt C12C 1/027)
1/007  .  {Testing seeds for determining their viability or
germination capacity}
1/008  .  Arranging seeds on carriers, e.g. on tapes, on cords
       {Carrier compositions}
1/009  .  .  {Tapes, bands or cords}
1/009  .  .  {Sheets, multiple sheets or mats}
1/009  .  .  {Carrier compositions}
2001/048  .  .  {Machines}
1/005  .  Coating or dressing seed { (encapsulated embryos
       or artificial seeds A01H 4/006; seed coating
       compositions C09D)}
1/006  .  .  .  .  .  Immunising seed
3/00  Treating manure; Manuring 
       (ploughs with
       additional arrangements for putting manure under the
       soil A01B 17/002); dung forks A01D 9/00 {; treating
       of waste water, sewage or sludge C02F}
3/006  .  .  {Spreading by using worm or screw conveyors}
3/008  .  .  for manure already laying on the soil
5/00  Making or covering furrows or holes for sowing,
       planting or manuring
5/002  .  .  Hand tools for making holes for sowing, planting
       or manuring 
       (transplanting devices for trees
       A01G 23/02)
5/004  .  .  Machines for making or covering holes for sowing
       or planting
5/0045  .  .  {with piercing buckets (devices for laying-out
       or removing protective coverings for plants
       A01G 13/02)}
5/006  .  .  Machines for making or covering drills or furrows
       for sowing or planting 
       (seeders depositing seeds
       in rows A01C 7/08); ploughs for making ridges
       A01B 13/02; {lifting devices for agricultural
       machines A01B 63/00})
5/0062  .  .  {Devices for making drills or furrows}
5/0064  .  .  {with rotating tools}
5/0066  .  .  {Devices for covering drills or furrows}
5/0068  .  .  .  {Furrow packing devices, e.g. press wheels}
5/008  .  .  Machines for both manuring and sowing or both
       manuring and planting
7/00  Sowing 
       (with centrifugal wheels A01C 17/00)
       arrangements for driving working parts A01C 19/00)
7/002  .  .  {Dibble seeders}
7/004  .  .  {using liquid seeding techniques}
7/006  .  {Minimum till seeding}
7/008  .  .  {Sod or grassland seeding (A01C 7/08 takes
       precedence)}
7/002  .  .  Hand sowing implements 
       (fertiliser distributors
       for hand use A01C 15/02; tools for cultivation
       A01G 20/30, A01G 20/40)
7/004  .  .  {Single-grain seeders with or without suction devices
       (regulation A01C 7/10; for quantities of seed
       A01C 7/18)}
7/0042  .  .  .  {using pneumatic means}
7/0044  .  .  .  {Pneumatic seed wheels}
7/0046  .  .  .  {with perforated seeding discs}
7/0048  .  .  .  {Seed tape planters}
Seeders combined with fertilising apparatus (combining and depositing seed A01C 7/20: apparatus for two kinds of fertiliser A01C 15/00; combinations with soil working tools A01B 49/04)

Broadcast seeders; Seeders depositing seeds in rows (machines for making furrows A01C 5/06: combination of seed machines with other soil-working tools A01B 49/06; foldable apparatus A01B 73/00)

Seeders depositing seeds in rows using pneumatic means

Pneumatic distribution heads for seeders

Broadcast seeders

‘tramlining’

Seeding machines (non-pneumatic seed pipes A01C 7/20)

Seeding machines for depositing quantities of seed at intervals

Regulation of machines for depositing quantities at intervals

Regulating or controlling the seed rate

Seed sensors

Calibration of the seed rate

Seeding machines with feeding wheels

for sowing seeds of different sizes

using more than one feeding wheel; using double-run feeding wheels

Housings for seed 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, slides (with distributing slots A01C 15/06; with slides A01C 15/124; with chains A01C 15/18)

Gravity distributors

Centrifugal distributors (pneumatic distributors A01C 15/04)

Machines for depositing quantities of seed at intervals (dibble seeders A01C 7/002: single-grain seeders A01C 7/04: regulation A01C 7/102: ridge marking A01B 69/02)

Foot valves

Parts of seeders for conducting and depositing seed (combined with fertilising apparatus A01C 7/06)

Mounting of the seeding tools

comprising depth regulation means

comprising pressure regulation means

Seed pipes

Chassis; Coupling means to a tractor or the like; Lifting means; Side markers (hoppers for seeders or seeders A01C 15/006)

Potato planters (planting by hand A01C 7/02; combinations with soil working tools A01B 49/04)

with conveyor belts

with bucket wheels (with other distributing devices A01C 9/08)

with piercing or grasping devices
Fertilisers or seeders with centrifugal wheels
((hand-used implements A01C 7/02, A01C 15/02;
fertiliser distributors A01C 15/00; mechanical
throwing machines for articles or solid bulk materials,
in general B65G 31/00; sand, gravel or salt spreaders
E01C 19/20))

{ Centrifugal throwing devices with a vertical axis }
{ Centrifugal throwing devices with a horizontal
axis }
{ Driving mechanisms for the throwing devices }
{ Regulating or dosing devices }
{ Devices controlling the quantity or the
distribution pattern }

Arrangements for driving working parts
of fertilisers or seeders {(A01C 17/005 takes
precedence)}

by a motor
by a ground-engaging wheel
{ the drive coupling being controlled by lifting or
lowering of the seeding tools }

Methods of fertilizing, {sowing or planting}
(fertilisers C05; soil-conditioning or soil-stabilising
materials C09K 17/00)

{ Apparatus for sowing fertiliser; Fertiliser drill }
{ Following a specific plan, e.g. pattern (precision
agriculture in general A01B 79/005; steering or
guiding agricultural machines or implements
A01B 69/00) }
{ Determining fertilization requirements }

Distributing devices specially adapted for liquid
manure or other fertilising liquid, including
ammonia, e.g. transport tanks, sprinkling wagons
(watering fields in general A01G 25/00; spraying or
applying liquids or other fluent materials in general
B05)

{ Sludge spreaders, e.g. liquid manure spreaders }
{ provided with auxiliary arrangements, e.g.
pumps, agitators, cutters }
{ Distributing devices, e.g. for rotating, throwing }
{ Nozzles, valves, splash plates }
{ Distribution of liquid fertilisers by gravity flow
(distribution of liquid ammonia in or on the soil
A01C 23/024; under pressure A01C 23/04) }
{ Metering or regulating systems }
{ Tanks, chassis or related parts }
{ Special arrangements for delivering the liquid
directly into the soil }
{ Sludge injectors, i.e. liquid manure injectors }
{ Continuous injection tools (devices for
making drill or furrows A01C 5/066) }
{ for liquid or gas fertilisers }
{ for ammonia }
{ Continuous injection tools }
{ Localised non-continuous injection tools, e.g.
pal injectors, spike wheels }
{ Other methods for delivering fertiliser into the
soil (sowing granular fertiliser A01C 21/002;
subirrigation A01G 25/06) }
{ Contactless injection into the soil }
{ Distributing under pressure; Distributing mud;
Adaptation of watering systems for fertilising-
lodids }

{ Adding fertiliser to watering systems (adding
insecticides or herbicides A01M 7/00) }
{ Filling devices for liquid manure or slurry tanks
(arrangements for connecting hoses of the quick-
acting type F16L 37/00) }
{ Spraying of liquid fertilisers (gravity flow
A01C 23/006; watering gardens, fields, sports
grounds or the like A01G 25/00) }