

CPC**COOPERATIVE PATENT CLASSIFICATION****A01K****ANIMAL HUSBANDRY; CARE OF BIRDS, FISHES, INSECTS; FISHING; REARING OR BREEDING ANIMALS, NOT OTHERWISE PROVIDED FOR; NEW BREEDS OF ANIMALS****NOTE**

This subclass covers:

- equipment for the care, culture or rearing of all animals, or for obtaining their products, unless provided for elsewhere, e.g. milking A01J, shoeing animals A01L, veterinary devices A61D, culture of animal cells C12M, C12N; - methods of breeding animals or new animal breeds.

Animal husbandry in general, especially cattle-raising (devices in connection with harnesses [B68B](#))

A01K 1/00

Housing animals; Equipment therefor (building construction, features of buildings [E04](#); ventilating buildings [F24F](#))

- A01K 1/0005 . {Stable partitions (devices for fastening animals [A01K 1/06](#); pasturing enclosures [A01K 3/00](#))}
- A01K 1/0011 . . {Cubicle partitions}
- A01K 1/0017 . . {Gates, doors}
- A01K 1/0023 . . . {Sorting gates}
- A01K 1/0029 . . . {Crowding gates or barriers}
- A01K 1/0035 . { Transportable or mobile animal shelters}
- A01K 1/0041 . { Rotary, round or circular animal barns}
- A01K 1/0047 . {Air-conditioning, e.g. ventilation, of animal housings}
- A01K 1/0052 . . {Arrangement of fans or blowers}
- A01K 1/0058 . . {Construction of air inlets or outlets in roofs}
- A01K 1/0064 . . {Construction of air inlets or outlets in walls}
- A01K 1/007 . . {Arrangement of curtain systems}
- A01K 1/0076 . . {Arrangement of heaters or heat exchangers}
- A01K 1/0082 . . {Water misting or cooling systems}
- A01K 1/0088 . { Animal shelters especially adapted for keeping young cattle, i.e. calves}
- A01K 1/0094 . { Animal shelters or barns especially adapted for keeping horses}
- A01K 1/01 . Removal of dung or urine, {e.g. from stables}([A01K 1/015](#) takes precedence; {from poultry houses [A01K 31/04](#)})

- A01K 1/0103 .. {of liquid manure (treating manure [A01C 3/00](#); treatment of water, waste water, sewage or sludge [C02F](#))}
- A01K 1/0107 .. {Cat trays; Dog urinals; Toilets for pets}
- A01K 1/011 ... {with means for removing excrement ([A01K 1/0114](#) and [A01K 1/0117](#) take precedence)}
- A01K 1/0114 ... {Litter boxes with screens for separating excrement from litter}
- A01K 1/0117 ... {with conveying belts for removing excrement}
- A01K 1/0121 ... {adapted to fit on conventional toilets}
- A01K 1/0125 ... {Foldable or collapsible litter boxes}
- A01K 1/0128 .. {by means of scrapers or the like moving continuously}
- A01K 1/0132 .. {by means of scrapers or the like moving to-and-fro or step-by-step}
- A01K 1/0135 .. {by means of conveyer belts}
- A01K 1/0139 .. {by means of screw conveyers}
- A01K 1/0142 .. {by means of a moving piston}
- A01K 1/0146 .. {by means of manure-loaders, manure-ramps or manure-elevators associated with in-house removal systems (independent manure-loaders [A01C 3/04](#))}

- A01K 1/015 . Floor coverings, e.g. bedding-down sheets; {Stable floors (for poultry cages [A01K 31/007](#))}
- A01K 1/0151 .. {Grids; Gratings; Slatted floors}
- A01K 1/0152 .. {Litter}
- A01K 1/0154 ... {comprising inorganic material}
- A01K 1/0155 ... {comprising organic material}
- A01K 1/0157 .. {Mats; Sheets}
- A01K 1/0158 .. {Floor heating or cooling systems}

- A01K 1/02 . Pigsties; Dog-kennels; Rabbit-hutches or the like
- A01K 1/0209 .. {Feeding pens for pigs or cattle}
- A01K 1/0218 .. {Farrowing or weaning crates}
- A01K 1/0227 .. {Battery cages for piglets}
- A01K 1/0236 .. { Transport boxes, bags, cages, baskets, harnesses for animals; Fittings therefor (for poultry [A01K 31/002](#); for pigeons [A01K 31/07](#))}
- A01K 1/0245 ... { Boxes or cages}
- A01K 1/0254 ... { Bags or baskets}
- A01K 1/0263 ... { Harnesses}
- A01K 1/0272 ... { Boxes, bags, cages, baskets, harnesses especially adapted for transport in or on automobiles}
- A01K 1/0281 ... { Boxes, bags, cages, baskets, harnesses especially adapted for transport in or on bicycles or motorcycles}
- A01K 1/029 ... { Boxes, bags, cages, baskets, harnesses especially adapted for carrying the animal on the body of a person (baby carriers [A47D 13/02](#))}
- A01K 1/03 .. Housing for domestic or laboratory animals
- A01K 1/031 ... {Cages for laboratory animals; Cages for measuring metabolism of animals}
- A01K 1/032 ... {Rabbit-hutches or cages}
- A01K 1/033 ... {Cat or dog houses}

- A01K 1/034 {Dog-kennels}
- A01K 1/035 . . . Devices for use in keeping domestic animals, e.g. fittings in housings, dog beds
- A01K 1/0353 . . . {Dog beds}
- A01K 1/0356 . . . {Feeding or drinking devices associated with cages (for poultry [A01K 31/005](#), [A01K 31/17](#), [A01K 39/00](#); for birds [A01K 31/06](#))}

- A01K 1/04 . . Tethering-poles or the like

- A01K 1/06 . . Devices for fastening animals, e.g. halters, toggles, neck-bars, chain fastenings
- A01K 1/0606 . . {by means of grids with or without movable locking bars ([A01K 1/08](#) takes precedence)}
- A01K 1/0613 . . {Devices for immobilisation or restraint of animals, e.g. chutes (pens for animals while being shod [A01L 13/00](#); appliances for supporting or fettering animals for operative purposes [A61D 3/00](#))}
- A01K 1/062 . . Neck-bars, {e.g. neck collars}
- A01K 1/064 . . Chain fastenings

- A01K 1/08 . . Arrangements for simultaneously releasing several animals

- A01K 1/10 . . Feed racks, {e.g. associated with enclosures or troughs}(devices for impeding movement of animals [A01K 15/04](#))
- A01K 1/105 . . {Movable feed barriers, slides or fences}

- A01K 1/12 . . Milking stations (devices for milking [A01J 1/00](#) to [A01J 9/00](#))
- A01K 1/123 . . {Mobile milking parlours}
- A01K 1/126 . . {Carousels}

- A01K 3/00** **Pasturing equipment, e.g. tethering devices; {Guiding corridors; Corrals, e.g. portable, collapsible}; Grids for preventing cattle from straying; Electrified wire fencing (construction of fencing in general [E04H 17/00](#); electric circuits for fences [H05C](#))**

- A01K 3/002 . . {Grids for preventing cattle from straying}
- A01K 3/005 . . {Electrified wire fencing (circuits [H05C](#))}

- A01K 5/00** **Feeding devices for stock or game ([A01K 1/10](#) takes precedence; for poultry [A01K 39/00](#)){Feeding wagons; Feeding stacks}**

- A01K 5/001 . . {Fodder distributors with mixer or shredder (adaptations of cutting machine [A01F 29/00](#))}
- A01K 5/002 . . {with mixing or shredding element rotating on horizontal axis}
- A01K 5/004 . . {with mixing or shredding element rotating on vertical axis}
- A01K 5/005 . . {where fodder, e.g. bales, is conveyed by conveyor or slide to mixing or shredding elements on transversal and horizontal axes}
- A01K 5/007 . . {with mixing or shredding area contained inside an endless chain or belt conveyor}
- A01K 5/008 . . {Feed bags (nose-bags for oats [B68B 5/00](#))}

- A01K 5/01 . Feed troughs; Feed pails {(A01K 1/10 takes precedence)}
- A01K 5/0107 .. {Transportable fodder pails or troughs}
- A01K 5/0114 .. {Pet food dispensers; Pet food trays (time-controlled A01K 5/0291)}
- A01K 5/0121 ... { Disposable pet feeders}
- A01K 5/0128 ... { Pet feeders with liners}
- A01K 5/0135 ... { with means for preventing or catching spillage}
- A01K 5/0142 ... { with means for preventing other animals or insects from eating}

- A01K 5/015 . Licking-stone holders (salt blocks A23K 1/16); {Other dispensers for minerals}

- A01K 5/02 . Automatic devices {(automatic identification devices for stock A01K 11/006)}
- A01K 5/0208 .. {with conveyer belts or the like}
- A01K 5/0216 .. {for the distribution of liquid fodder (A01K 9/00 takes precedence)}
- A01K 5/0225 .. {Gravity replenishment from a reserve, e.g. a hopper (for poultry A01K 39/012)}
- A01K 5/0233 ... {dispensing by dosing means actively operated by the animal}
- A01K 5/0241 ... {dispensing by means of stirring mechanisms or agitators operated by the animal}
- A01K 5/025 ... {with access to feeding place or trough only possible through access doors or lids to be opened by the animal}
- A01K 5/0258 .. {with endless screws}
- A01K 5/0266 .. {with stable trolleys, e.g. suspended}
- A01K 5/0275 .. {with mechanisms for delivery of measured doses (A01K 5/0233 takes precedence)}
- A01K 5/0283 ... {by weight}
- A01K 5/0291 .. {with timing mechanisms, e.g. pet feeders}

A01K 7/00 Watering equipment for stock or game

- A01K 7/005 . { Drinking bowls with anti-splash or anti-spilling features}

- A01K 7/02 . Automatic devices, {e.g. actuated by weight of water; Medication dispensers}{construction of valves F16K}
- A01K 7/022 .. {Pumps actuated by the drinking animal}
- A01K 7/025 .. { Water tanks}
- A01K 7/027 .. { Drinking equipment with water heaters, coolers or means for preventing freezing}
- A01K 7/04 .. actuated by float
- A01K 7/06 .. actuated by the animal {through valve control (for poultry A01K 39/0213)}

A01K 9/00 Sucking apparatus for young stock; {Devices for mixing solid food with liquids}

- A01K 9/005 . {Teats or nipples (teats for feeding bottles for humans A61J 11/00)}

A01K 11/00 Marking of animals (of poultry A01K 35/00; {of fish A01K 61/001}; lead-sealing pliers B25B)

- A01K 11/001 . {Ear-tags}
- A01K 11/002 . . {Pliers specially adapted for fixing ear-tags to ears}
- A01K 11/003 . . { with means for taking tissue samples, e.g. for DNA analysis}
- A01K 11/004 . . { with electronic identification means, e.g. transponders}
- A01K 11/005 . {Branding or tattooing devices for animals}
- A01K 11/006 . { Automatic identification systems for animals, e.g. electronic devices, transponders for animals (identification systems for access to feeding pens [A01K 1/0209](#); ear tags with electronic identification means [A01K 11/004](#))}
- A01K 11/007 . . {Boluses}
- A01K 11/008 . . { incorporating GPS}
- A01K 13/00** **Devices for grooming or caring of animals, e.g. curry-combs (scissors [B26B](#)); Fetlock rings (bandages, poultices [A61D](#)); Tail-holders (as part of the harness [B68B 5/04](#)); Devices for preventing crib-biting; Washing devices (milking machine accessories for treatment of udders or teats [A01J 7/04](#); for medical purposes [A61D 11/00](#)); Protection against weather conditions or insects**
- A01K 13/001 . {Washing, cleaning, or drying devices (for veterinary purposes [A61D 7/00](#), [A61D 11/00](#))}
- A01K 13/002 . {Curry-combs; Shearing sheep chemically (shearing sheep [B26B 19/24](#))}
- A01K 13/003 . {Devices for applying insecticides or medication ([A01K 27/005](#) takes precedence; for veterinary purposes [A61D](#))}
- A01K 13/004 . {Rubbing-posts}
- A01K 13/005 . {Tail-holders}
- A01K 13/006 . {Protective coverings (shoeing of animals [A01L](#); for veterinary purposes [A61D](#))}
- A01K 13/007 . . {Leg, hoof or foot protectors}
- A01K 13/008 . . {Horse blankets}
- A01K 14/00** **Removing the fleece from live sheep or similar animals (hand-held cutting tools [B26B](#))**
- A01K 15/00** **Devices for taming animals, e.g. nose-rings, hobbles; Devices for overturning animals in general; Training equipment; Covering boxes ({animal holding devices [A01K 1/0613](#)}; devices for veterinary purposes [A61D 3/00](#))**
- A01K 15/003 . {Nose-rings; Fastening tools therefor; Catching or driving equipment}
- A01K 15/006 . {Devices for impeding passage of animals under fences, preventing butting or the like}
- A01K 15/02 . Training or exercise equipment ([A01K 15/04](#) takes precedence); {Electric shock devices (circuits therefor [H03K 3/537](#)); Toys, e.g. for pets}

- A01K 15/021 . . {Electronic training devices specially adapted for dogs or cats}
- A01K 15/022 . . . {Anti-barking devices}
- A01K 15/023 . . . {Anti-evasion devices}
- A01K 15/024 . . {Scratching devices, e.g. for cats}
- A01K 15/025 . . {Toys, e.g. for chewing}
- A01K 15/026 . . . { Chewable toys, e.g. for dental care of pets}
- A01K 15/027 . . {Exercising equipment, e.g. tread mills, carousels (equipment for racing or riding sports events [A63K](#))}
- A01K 15/028 . . {Cow trainers}
- A01K 15/029 . . { Electric or similar shock devices, e.g. prods (circuits therefor [H03K 3/537](#))}

- A01K 15/04 . Devices for impeding movement; Devices for impeding passage through fencing, {e.g. hobbles or the like; Anti-kicking devices (impeding passage under fences [A01K 15/006](#))}

- A01K 17/00 Dehorner; Horn trainers**

- A01K 19/00 Weaning apparatus**

- A01K 21/00 Devices for assisting or preventing mating (covering boxes [A01K 15/00](#))**

- A01K 23/00 Manure or urine pouches {(picking up dog excrement from the ground [E01H 1/1206](#))}**

- A01K 23/005 . {Manure or urine collecting devices used independently from the animal, i.e. not worn by the animal but operated by a person}

- A01K 25/00 Muzzles**

- A01K 27/00 Leads or collars, e.g. for dogs (devices specially adapted or mounted for storing and repeatedly paying-out and re-storing lengths of material [B65H 75/34](#))**

- A01K 27/001 . { Collars}
- A01K 27/002 . { Harnesses}
- A01K 27/003 . { Leads, leashes}
- A01K 27/004 . . { Retractable leashes}
- A01K 27/005 . { Quick-couplings, safety-couplings or shock-absorbing devices between leash and collar}
- A01K 27/006 . { with light-emitting or ornamental devices}
- A01K 27/007 . { with insecticide-dispensing means}
- A01K 27/008 . { with pockets or similar for carrying accessories}

- A01K 27/009 . { with electric-shock, sound, magnetic- or radio-waves emitting devices}
- A01K 29/00 Other apparatus for animal husbandry {(detecting birth of animals [A61D 17/00](#))}**
- A01K 29/005 . {Monitoring or measuring activity, e.g. detecting heat or mating}
- Aviculture; Testing, cleaning, stamping or grading eggs**
- A01K 31/00 Housing birds**
- A01K 31/002 . {Poultry cages, e.g. transport boxes (poultry transport [A01K 45/005](#))}
- A01K 31/005 . . {Battery breeding cages, with or without auxiliary features, e.g. feeding, watering, demanuring, heating, ventilation}
- A01K 31/007 . . {Floors (for stables [A01K 1/015](#))}
- A01K 31/02 . Door appliances; Automatic door-openers {(laying-nests [A01K 31/16](#)); counters for specific applications [G07C 9/00](#)}
- A01K 31/04 . Dropping-boards; Devices for removing excrement
- A01K 31/06 . Cages, {e.g. for singing birds (for poultry [A01K 31/002](#))}
- A01K 31/07 . . Transportable cages ([A01K 31/08](#) takes precedence); {Travelling cages for pigeons; Opening or closing of cages}
- A01K 31/08 . . Collapsible cages
- A01K 31/10 . Doors; Trap-doors {(for laying-nests [A01K 31/16](#))}
- A01K 31/12 . Perches {for poultry or birds, e.g. roosts}
- A01K 31/14 . Nest-boxes, {e.g. for singing birds or the like}
- A01K 31/16 . . Laying-nests for poultry; Egg collecting {(nest floors [A01K 31/007](#))}
- A01K 31/165 . . . {Egg collecting or counting}
- A01K 31/17 . . . Laying batteries {including auxiliary features, e.g. feeding, watering, demanuring, heating, ventilation}
- A01K 31/18 . Chicken coops or houses {for baby chicks}; Brooders {including auxiliary features, e.g. feeding, watering, demanuring, heating, ventilation (battery breeding cages [A01K 31/005](#))}
- A01K 31/19 . . Brooders; {Foster-mothers; Hovers}
- A01K 31/20 . . Heating arrangements; {Ventilation}
- A01K 31/22 . Poultry runs; {Poultry houses, including auxiliary features, e.g. feeding, watering, demanuring (air-conditioning of poultry runs or houses [A01K 1/0047](#))}
- A01K 31/24 . Dovecots; Pigeon lofts
- A01K 33/00 Nest-eggs**

- A01K 35/00** **Marking poultry or other birds** {(marking meat [A22C 17/10](#))}
- A01K 37/00** **Constraining birds, e.g. wing clamps**
- A01K 39/00** **Feeding or drinking appliances for poultry or other birds** {([A01K 31/005](#), [A01K 31/06](#), [A01K 31/17](#) take precedence)}
- [A01K 39/01](#) . Feeding devices, {e.g. chainfeeders}([A01K 39/04](#) takes precedence; {panfeeding systems, feeding pans [A01K 39/0125](#)})
- [A01K 39/0106](#) . . {for solid feed, e.g. grit-cake holders (licking-stone holders for stock or game [A01K 5/015](#))}
- [A01K 39/0113](#) . . {with means to prevent other animals or insects, e.g. squirrels or ants, from eating also}
- [A01K 39/012](#) . . filling automatically, {e.g. by gravity from a reserve}
- [A01K 39/0125](#) . . . {Panfeeding systems; Feeding pans therefor}
- [A01K 39/014](#) . . Feed troughs; Feed throwers
- [A01K 39/02](#) . Drinking appliances ([A01K 39/04](#) takes precedence; construction of valves [F16K](#))
- [A01K 39/0206](#) . . {Drinkers especially adapted for feeding hummingbirds}
- [A01K 39/0213](#) . . {Nipple drinkers}
- [A01K 39/022](#) . . with weight-controlled supply
- [A01K 39/024](#) . . with float-controlled supply
- [A01K 39/026](#) . . kept filled to constant level from incorporated storage
- [A01K 39/04](#) . Combined feeding and drinking appliances, {e.g. also for batteries}
- [A01K 39/06](#) . Cramming appliances, {e.g. helical force-feeders}
- A01K 41/00** **Incubators for poultry**
- [A01K 41/02](#) . Heating arrangements
- [A01K 41/023](#) . . {Devices for regulating temperature}
- [A01K 41/026](#) . . {Heating with water}
- [A01K 41/04](#) . Controlling humidity in incubators
- [A01K 41/06](#) . Egg-turning appliances for incubators
- [A01K 41/065](#) . . {Egg drawers}
- A01K 43/00** **Testing, sorting or cleaning eggs** (investigating or analysing eggs, e.g. by candling [G01N 33/08](#)); {Conveying devices (for batteries [A01K 31/165](#)); Pick-up devices}
- [A01K 43/005](#) . {Cleaning, washing of eggs}
- [A01K 43/04](#) . Grading eggs

A01K 43/06	. . according to size
A01K 43/08	. . according to weight (sorting according to weight in general B07C 5/16)
A01K 43/10	. . Grading and stamping
A01K 45/00	Other aviculture appliances, e.g. devices for determining whether a bird is about to lay
A01K 45/002	. {Bird baths or showers}
A01K 45/005	. {Harvesting or transport of poultry}
A01K 45/007	. {Injecting or otherwise treating hatching eggs}
	Apiculture {(rearing insects in general A01K 67/00)}
A01K 47/00	Beehives
A01K 47/02	. Construction or arrangement of frames for honeycombs
A01K 47/04	. Artificial honeycombs
A01K 47/06	. Other details of beehives, e.g. ventilating devices, entrances to hives, guards, partitions, bee escapes
A01K 49/00	Rearing-boxes; Queen transporting or introducing cages
A01K 51/00	Appliances for treating beehives or parts thereof, e.g. for cleaning or disinfecting
A01K 53/00	Feeding or drinking appliances for bees
A01K 55/00	Bee-smokers; Bee-keepers' accessories, e.g. veils ({smoke-generators for gardens or orchards A01G 13/06 , for killing insects A01M 13/00D , for killing rats A01M 17/00B2 ; smoking pipes A24F)
A01K 57/00	Appliances for providing, preventing or catching swarms; Drone-catching devices
A01K 59/00	Honey collection
A01K 59/02	. Devices for uncapping honeycombs
A01K 59/04	. Honey strainers; {Strainers with centrifuges or presses}
A01K 59/06	. Devices for extracting wax

Pisciculture; Aquaria; Terraria

- A01K 61/00** **Culture of fish, mussels, crayfish, lobsters, sponges, pearls or the like** (harvesting oysters, mussels, sponges or the like [A01K 80/00](#))
- A01K 61/001 . {Sorting, grading counting or marking live fish; Sex determination (sorting dead fish [A22C 25/04](#); sorting in general [B07B](#), [B07C](#); counting in general [G06M](#))}
- A01K 61/002 . {Culture of bivalves, e.g. oysters, mussels}
- A01K 61/003 . {Cleaning bottoms or walls of ponds or receptacles (cleaning windows [A47L](#); cleaning in general [B08B](#); tank cleaning specially adapted for vessels [B63B 57/00](#); cleaning devices for hulls [B63B 59/00](#); devices for cleaning the submerged surfaces of a swimming pool [E04H 4/16](#))}
- A01K 61/005 . {Culture of crustacea, e.g. lobsters, prawns, shrimps}
- A01K 61/006 . {Artificial reefs specially adapted for the culture of fish}
- A01K 61/007 . {Floating fish-farms}
- A01K 61/008 . {Incubators or hatching devices for fish}
- A01K 61/02 . Feeding devices for fish {(fish food [A23K 1/188](#))}
- A01K 61/025 .. {for use with aquaria}
- A01K 63/00** **Receptacles for live fish, e.g. aquaria** (keepnets or other containers for keeping captured fish [A01K 97/20](#)); **Terraria** {(receptacles for rearing fish [A01K 61/00](#))}
- A01K 63/003 . {Aquaria; Terraria ([A01K 63/04](#), [A01K 63/06](#) take precedence)}
- A01K 63/006 .. {Accessories for aquaria or terraria}
- A01K 63/02 . Receptacles specially adapted for transporting live fish
- A01K 63/04 . Arrangements for treating water specially adapted to receptacles for live fish, {e.g. filters, water pumps}({cleaning receptacles [A01K 61/003](#); filters in general [B01D](#); water treatment in general [C02F](#))
- A01K 63/042 .. {Introducing gases into the water, e.g. aerators, air pumps}
- A01K 63/045 .. {Filters for aquaria}
- A01K 63/047 .. {Liquid pumps for aquaria (air pumps for aquaria [A01K 63/042](#))}
- A01K 63/06 . Arrangements for heating or lighting in, or attached to, receptacles for live fish (heating, {cooling} or lighting apparatus per se [F21](#), [H01](#), [H05B](#))
- A01K 63/065 .. {Heating or cooling devices}
- A01K 65/00** **Fish stringers** {(devices for threading fish on strings [A22C 25/10](#))}

A01K 67/00

Rearing or breeding animals, not otherwise provided for; New breeds of animals
(methods for reproduction or fertilisation [A61D 19/00](#); medicinal preparations containing sperm [A61K 35/52](#); tissue- or animal-cell cultivation apparatus [C12M 3/00](#); cultivation or maintenance of tissue or animal cells [C12N 5/00](#); mutation or genetic engineering [C12N 15/00](#))

NOTE

In this group the following term is used with the meaning indicated:

- "breeding" means obtaining animals up to and including their birth or hatching.

A01K 67/02

- . Breeding vertebrates (covering boxes [A01K 15/00](#); devices for assisting or preventing mating [A01K 21/00](#))

NOTE

Documents relating to new peptides or new DNA or its corresponding mRNA encoding for peptides, and their use for the obtention of transgenic animals, are classified in subclass [C07K](#) or in group [C12N 9/00](#) according to the peptides, with the appropriate indexing codes]

A01K 67/027

- . New breeds of vertebrates

NOTE

In group **A01N 67/027**, it is desirable to add the indexing codes of [A01K 2227/00](#) and subgroups relating to animals characterised by species. In group [A01K 67/027](#) it is desirable to add the indexing codes of [A01K 2267/00](#) and subgroups relating to animals characterised by their purpose

A01K 67/0271

- .. {Chimeric animals, e.g. comprising exogenous cells}

A01K 67/0273

- .. {Cloned animals}

A01K 67/0275

- .. { Genetically modified vertebrates, e.g. transgenic}

A01K 67/0276

- ... {Knockout animals}

A01K 67/0278

- ... {Humanized animals, e.g. knockin}

A01K 67/033

- . Rearing or breeding invertebrates; New breeds of invertebrates (non-chemical sterilisation of invertebrates [A01M](#))

NOTE

In group **A01N 67/033**, it is desirable to add the indexing codes relating to transgenic animals. In group [A01K 67/033](#), it is desirable to add the indexing codes relating to animals characterised by their purpose

A01K 67/0331

- .. {Snails ([A01K 67/0333](#) takes precedence)}

A01K 67/0332

- .. {Earthworms ([A01K 67/0333](#) takes precedence)}

A01K 67/0333

- .. {Genetically modified invertebrates, e.g. transgenic, polyploid}

A01K 67/0334

- ... {Genetically modified Molluscs}

- A01K 67/0335 . . . {Genetically modified worms}
- A01K 67/0336 {Genetically modified Nematodes, e.g. *Caenorhabditis elegans*}
- A01K 67/0337 . . . {Genetically modified Arthropods}
- A01K 67/0338 {Genetically modified Crustaceans}
- A01K 67/0339 {Genetically modified insects, e.g. *Drosophila melanogaster*, medfly}
- A01K 67/04 . . Silkworms {(A01K 67/0333 takes precedence)}

Fishing (fish stringers [A01K 65/00](#))

A01K 69/00

Stationary catching devices

- A01K 69/02 . Fixed nets without traps
- A01K 69/04 . Fixed nets with traps
- A01K 69/06 . Traps
- A01K 69/08 . . Rigid traps, e.g. lobster pots
- A01K 69/10 . . Collapsible traps

A01K 71/00

Floating nets {(if drawn [A01K 73/00](#))}

A01K 73/00

Drawn nets

- A01K 73/02 . Trawling nets
- A01K 73/025 . . {Regulation of net depth}
- A01K 73/04 . . Devices for spreading or positioning, e.g. control thereof
- A01K 73/045 . . . for lateral sheering, e.g. trawl boards
- A01K 73/05 . . . for vertical sheering
- A01K 73/053 . . . Ground-line rollers
- A01K 73/06 . . Hauling devices for the headlines, {also for nets; Winches ([A01K 73/12](#) takes precedence)}
- A01K 73/10 . . Determining the quantity of the catch, e.g. by the pull or drag on the lines
- A01K 73/12 . Nets held vertically in the water, e.g. seines

A01K 74/00

Other catching nets or the like

A01K 75/00

Accessories for nets; Details of nets, e.g. structure

- A01K 75/02 . Illuminating devices for nets
- A01K 75/04 . Floats (for angling [A01K 93/00](#))
- A01K 75/06 . Sinkers (for angling [A01K 95/00](#))

A01K 77/00	Landing-nets; Landing-spoons
A01K 79/00	Methods or means of catching fish in bulk not provided for in groups A01K 69/00 to A01K 77/00, {e.g. fish pumps; Detection of fish; Whale fishery}
A01K 79/02	. by electrocution (electric circuits therefor H05C); {Attracting or stunning fish; Scaring sharks}
A01K 80/00	Harvesting oysters, mussels, sponges or the like, {e.g. drags, clam diggers, marine life collectors}{nets A01K 73/00, A01K 74/00; dredgers E02F}
A01K 81/00	Fishing with projectiles (weapons, projectiles other than fish-spears F41, F42)
A01K 81/04	. Fish-spears
A01K 81/06	. Equipment for hunting fish under water (swimming equipment A63B 31/00 to A63B 35/00)
	Angling
A01K 83/00	Fish-hooks {(making fish-hooks B21F 45/12)}
A01K 83/02	. Expanding fish-hook assembly
A01K 83/04	. with special gripping arms
A01K 83/06	. Devices for holding bait on hooks {(baiting trotlines A01K 91/18 ; non-living bait A01K 97/045)}
A01K 85/00	Artificial baits, {i.e. Lures}
A01K 85/005	. {without hooks}
A01K 85/01	. with light emission, sound emission, scent dispersal or the like
A01K 85/02	. with means for concealing or protecting hooks, e.g. to prevent entanglement with weeds
A01K 85/08	. Artificial flies (fly tying devices A01K 97/26)
A01K 85/10	. with at least one flat rotating body having its axis of rotation substantially non-coincident with the longitudinal axis of the body, {e.g. spinners}
A01K 85/12	. comprising a body rotating around its longitudinal axis, e.g. devons
A01K 85/14	. with flat, or substantially flat, undulating bodies, e.g. spoons

- A01K 85/16 . with other than flat, or substantially flat, undulating bodies, e.g. plugs
- A01K 85/18 .. in two or more pieces

A01K 87/00**Rods**

- A01K 87/002 . {with the line passing through the hollow rod}
- A01K 87/005 .. {comprising internal line guides}
- A01K 87/007 . {with built-in accessories, e.g. lighting means or measuring devices}
- A01K 87/02 . Connecting devices for parts of the rods
- A01K 87/025 .. {telescopic}
- A01K 87/04 . Fishing-line guides on rods, {e.g. tips (internal line guides [A01K 87/005](#))}
- A01K 87/06 . Devices for fixing reels on rods
- A01K 87/08 . Handgrips
- A01K 87/085 .. {Heating devices or other means to protect against the cold}

A01K 89/00**Reels (devices for casting lines [A01K 91/02](#))**

- A01K 89/003 . {Devices for transferring line to a reel}
- A01K 89/006 . {Cranks}
- A01K 89/01 . with pick-up, i.e. with the guiding member rotating and the spool being stationary during normal retrieval of the line ([A01K 89/027](#) takes precedence)
- A01K 89/0102 .. {with closed face}
- A01K 89/0105 .. {Multi-speed mechanisms}
- A01K 89/0108 .. {Pick-up details}
- A01K 89/0111 .. {Spool details}
- A01K 89/0114 .. {Reciprocating mechanisms}
- A01K 89/0117 .. {Anti-reverse mechanisms}
- A01K 89/012 .. motor-driven
- A01K 89/015 . with rotary drum ([A01K 89/033](#) takes precedence)
- A01K 89/0155 .. Antibacklash devices
- A01K 89/01555 ... {using magnets}
- A01K 89/016 .. Fly reels
- A01K 89/0165 .. for trolling
- A01K 89/017 .. motor-driven
- A01K 89/02 . Brake devices for reels
- A01K 89/027 .. with pick-up

- A01K 89/0275 . . . {with closed face}
- A01K 89/033 . . with rotary drum
- A01K 89/06 . Reversible reels
- A01K 89/08 . Pole-less fishing apparatus, i.e. hand-held reels
- A01K 91/00 Lines**
- A01K 91/02 . Devices for casting lines
- A01K 91/03 . Connecting devices (devices for fixing on or removing sinkers from lines [A01K 95/02](#))
- A01K 91/04 . . for connecting lines to hooks or lures
- A01K 91/047 . . for connecting lines to lines
- A01K 91/053 . . Fishing booms, i.e. connecting devices spreading out the leaders, e.g. to avoid tangling thereof
- A01K 91/06 . Apparatus on lines not otherwise provided for, e.g. automatic hookers ([floats A01K 93/00](#))
- A01K 91/065 . . {Jiggling devices, i.e. devices for moving the lure}
- A01K 91/08 . . Trolling devices
- A01K 91/10 . . for automatic hook setting
- A01K 91/12 . Fly lines
- A01K 91/14 . Leaders
- A01K 91/16 . . for fly fishing
- A01K 91/18 . Trotlines, longlines; Accessories therefor, e.g. baiting devices, lifters, setting reelers
- A01K 91/20 . Line length or depth measuring devices
- A01K 93/00 Floats for angling, with or without signalling devices**
- A01K 93/02 . with signalling devices
- A01K 95/00 Sinkers for angling (for trawling [A01K 75/06](#))**
- A01K 95/005 . {Sinkers not containing lead}
- A01K 95/02 . Devices for fixing on or removing sinkers from lines
- A01K 97/00 Accessories for angling (landing-nets, landing-spoons [A01K 77/00](#))**
- A01K 97/01 . for ice-fishing; {Ice drilling, hook-setting or signalling devices}
- A01K 97/02 . Devices for laying ground-bait, e.g. chum dispensers, {e.g. also for throwing

ground-bait}

- A01K 97/04 . Containers for bait; Preparation of bait; {Dispensers}(feeding-stuffs for particular animals [A23K 1/18](#))
- A01K 97/045 . . {Preparation of bait; Ingredients}
- A01K 97/05 . . Containers for live bait kept in water, e.g. for minnows, shrimps
- A01K 97/06 . Containers or holders for hooks, lines, sinkers, flies or the like
- A01K 97/08 . Containers for rods
- A01K 97/10 . Supports for rods
- A01K 97/11 . . with automatic hooking devices
- A01K 97/12 . Signalling devices, e.g. tip-up devices ([A01K 91/06](#) takes precedence; {for floats [A01K 93/02](#); for ice-fishing [A01K 97/01](#); for supports [A01K 97/10](#)})
- A01K 97/125 . . {using electronic components}
- A01K 97/14 . Gaffs
- A01K 97/16 . Devices for drying fishing lines
- A01K 97/18 . for removing fish-hooks from the fish
- A01K 97/20 . Keepnets or other containers for keeping captured fish ([A01K 97/05](#) takes precedence)
- A01K 97/22 . Platforms or seat-boxes specially adapted for angling, e.g. tackle boxes for use as seats
- A01K 97/24 . Arrangements for disengaging fish-hooks from obstacles
- A01K 97/26 . Fly tying devices
- A01K 97/28 . . Vices specially adapted therefor
- A01K 99/00** **Methods or apparatus for fishing not provided for in groups [A01K 69/00](#) to [A01K 97/00](#)**
- A01K 2003/00** **Pasturing equipment, e.g. tethering devices; {Guiding corridors; Corrals, e.g. portable, collapsible}; Grids for preventing cattle from straying; Electrified wire fencing (construction of fencing in general [E04H 17/00](#); electric circuits for fences [H05C](#))**
- A01K 2003/007 . Fencing and guiding systems for amphibia

A01K 2207/00**Modified animals**

- A01K 2207/05 . Animals modified by non-integrating nucleic acids, e.g. antisense, RNAi, morpholino, episomal vector, for non-therapeutic purpose
- A01K 2207/10 . Animals modified by protein administration, for non-therapeutic purpose
- A01K 2207/12 . Animals modified by administration of exogenous cells
- A01K 2207/15 . Humanized animals

NOTE

This group covers animals comprising human nucleic acids, proteins or cells.
Classification in this group should be done in combination with K01K217 codes.

WARNING

- A01K 2207/20 . Animals treated with compounds which are neither proteins nor nucleic acids
- A01K 2207/25 . Animals on a special diet
- A01K 2207/30 . Animals modified by surgical methods
- A01K 2207/35 . Animals modified by environmental factors, e.g. temperature, O₂

A01K 2217/00**Genetically modified animals**

- A01K 2217/03 . Animals modified by random mutagenesis, e.g. using ENU, chemicals
- A01K 2217/05 . Animals comprising random inserted nucleic acids (transgenic)
 - A01K 2217/052 . . inducing gain of function
 - A01K 2217/054 . . inducing loss of function
 - A01K 2217/056 . . . due to mutation of coding region of the transgene (**dominant negative**)
 - A01K 2217/058 . . . due to expression of inhibitory nucleic acid, e.g. siRNA, antisense
- A01K 2217/07 . Animals genetically altered by homologous recombination
 - A01K 2217/072 . . maintaining or altering function, i.e. knock in
 - A01K 2217/075 . . inducing loss of function, i.e. knock out
 - A01K 2217/077 . . . heterozygous knock out animals displaying phenotype
- A01K 2217/15 . Animals comprising multiple alterations of the genome, by transgenesis or homologous recombination, e.g. obtained by cross-breeding
- A01K 2217/20 . Animal model comprising regulated expression system

- A01K 2217/203 . . Animal model comprising inducible/conditional expression system, e.g. hormones, tet
- A01K 2217/206 . . Animal model comprising tissue-specific expression system, e.g. tissue specific expression of transgene, of Cre recombinase
- A01K 2217/30 . Animal model comprising expression system for selective cell killing, e.g. toxins, enzyme dependent prodrug therapy using ganciclovir

A01K 2227/00 **Animals characterised by species (Not used)**

- A01K 2227/10 . Mammal
- A01K 2227/101 . . Bovine
- A01K 2227/102 . . Caprine
- A01K 2227/103 . . Ovine
- A01K 2227/105 . . Murine
- A01K 2227/106 . . Primate
- A01K 2227/107 . . Rabbit
- A01K 2227/108 . . Swine
- A01K 2227/30 . Bird
- A01K 2227/40 . Fish
- A01K 2227/50 . Amphibians, e.g. Xenopus
- A01K 2227/70 . Invertebrates
- A01K 2227/703 . . Worms, e.g. Caenorhabditis elegans
- A01K 2227/706 . . Insects, e.g. Drosophila melanogaster, medfly

A01K 2267/00 **Animals characterised by purpose (Not used)**

- A01K 2267/01 . Animal expressing industrially exogenous proteins
- A01K 2267/02 . Animal zootechnically ameliorated
- A01K 2267/025 . . Animal producing cells or organs for transplantation
- A01K 2267/03 . Animal model, e.g. for test or diseases
- A01K 2267/0306 . . Animal model for genetic diseases
- A01K 2267/0312 . . . Animal model for Alzheimer's disease
- A01K 2267/0318 . . . Animal model for neurodegenerative disease, e.g. non- Alzheimer's
- A01K 2267/0325 . . . Animal model for autoimmune diseases
- A01K 2267/0331 . . Animal model for proliferative diseases
- A01K 2267/0337 . . Animal models for infectious diseases
- A01K 2267/0343 . . . Animal model for prion disease
- A01K 2267/035 . . Animal model for multifactorial diseases
- A01K 2267/0356 . . . Animal model for processes and diseases of the central nervous system, e.g.

		stress, learning, schizophrenia, pain, epilepsy
A01K 2267/0362	...	Animal model for lipid/glucose metabolism, e.g. obesity, type-2 diabetes
A01K 2267/0368	...	Animal model for inflammation
A01K 2267/0375	...	Animal model for cardiovascular diseases
A01K 2267/0381	...	Animal model for diseases of the hematopoietic system
A01K 2267/0387	...	Animal model for diseases of the immune system
A01K 2267/0393	..	Animal model comprising a reporter system for screening tests