

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.

Guidance heading: 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 2003/007 . {Fencing and guiding systems for amphibia }

- 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}

Guidance heading: **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}

Guidance heading: **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 13/006 , for killing rats A01M 17/004 ; 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
Guidance heading:	<u>Pisciculture; Aquaria; Terraria</u>
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 [A01K 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 [A01K 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)}

Guidance heading: **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](#))

Guidance heading: 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 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
	<u>NOTE</u>
	This group covers animals comprising human nucleic acids, proteins or cells. Classification in this group should be done in combination with <u>K01K 217</u> codes.
	<u>WARNING</u>
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, O ₂
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