

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	Dehorers; 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> .. Brooders; {Foster-mothers; Hovers}
A01K 31/20	<ul style="list-style-type: none"> .. Heating arrangements; {Ventilation}
A01K 31/22	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Feeding devices, {e.g. chainfeeders}(A01K 39/04 takes precedence; {panfeeding systems, feeding pans A01K 39/0125)}
A01K 39/0106	<ul style="list-style-type: none"> .. {for solid feed, e.g. grit-cake holders (licking-stone holders for stock or game A01K 5/015)}
A01K 39/0113	<ul style="list-style-type: none"> .. {with means to prevent other animals or insects, e.g. squirrels or ants, from eating also}
A01K 39/012	<ul style="list-style-type: none"> .. filling automatically, {e.g. by gravity from a reserve}
A01K 39/0125	<ul style="list-style-type: none"> ... {Panfeeding systems; Feeding pans therefor}
A01K 39/014	<ul style="list-style-type: none"> .. Feed troughs; Feed throwers
A01K 39/02	<ul style="list-style-type: none"> Drinking appliances (A01K 39/04 takes precedence; construction of valves F16K)
A01K 39/0206	<ul style="list-style-type: none"> .. {Drinkers especially adapted for feeding hummingbirds}
A01K 39/0213	<ul style="list-style-type: none"> .. {Nipple drinkers}
A01K 39/022	<ul style="list-style-type: none"> .. with weight-controlled supply
A01K 39/024	<ul style="list-style-type: none"> .. with float-controlled supply
A01K 39/026	<ul style="list-style-type: none"> .. kept filled to constant level from incorporated storage
A01K 39/04	<ul style="list-style-type: none"> Combined feeding and drinking appliances, {e.g. also for batteries}
A01K 39/06	<ul style="list-style-type: none"> Cramming appliances, {e.g. helical force-feeders}
A01K 41/00	Incubators for poultry
A01K 41/02	<ul style="list-style-type: none"> Heating arrangements
A01K 41/023	<ul style="list-style-type: none"> .. {Devices for regulating temperature}
A01K 41/026	<ul style="list-style-type: none"> .. {Heating with water}
A01K 41/04	<ul style="list-style-type: none"> Controlling humidity in incubators
A01K 41/06	<ul style="list-style-type: none"> Egg-turning appliances for incubators
A01K 41/065	<ul style="list-style-type: none"> .. {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: **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 [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: <u>Angling</u>	
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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> {without hooks}
A01K 85/01	<ul style="list-style-type: none"> with light emission, sound emission, scent dispersal or the like
A01K 85/02	<ul style="list-style-type: none"> with means for concealing or protecting hooks, e.g. to prevent entanglement with weeds
A01K 85/08	<ul style="list-style-type: none"> Artificial flies (fly tying devices A01K 97/26)
A01K 85/10	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> comprising a body rotating around its longitudinal axis, e.g. devons
A01K 85/14	<ul style="list-style-type: none"> with flat, or substantially flat, undulating bodies, e.g. spoons
A01K 85/16	<ul style="list-style-type: none"> with other than flat, or substantially flat, undulating bodies, e.g. plugs
A01K 85/18	<ul style="list-style-type: none"> .. in two or more pieces
A01K 87/00	Rods
A01K 87/002	<ul style="list-style-type: none"> {with the line passing through the hollow rod}
A01K 87/005	<ul style="list-style-type: none"> .. {comprising internal line guides}
A01K 87/007	<ul style="list-style-type: none"> {with built-in accessories, e.g. lighting means or measuring devices}
A01K 87/02	<ul style="list-style-type: none"> Connecting devices for parts of the rods
A01K 87/025	<ul style="list-style-type: none"> .. {telescopic}
A01K 87/04	<ul style="list-style-type: none"> Fishing-line guides on rods, {e.g. tips (internal line guides A01K 87/005)}
A01K 87/06	<ul style="list-style-type: none"> Devices for fixing reels on rods
A01K 87/08	<ul style="list-style-type: none"> Handgrips
A01K 87/085	<ul style="list-style-type: none"> .. {Heating devices or other means to protect against the cold}
A01K 89/00	Reels (devices for casting lines A01K 91/02)
A01K 89/003	<ul style="list-style-type: none"> {Devices for transferring line to a reel}
A01K 89/006	<ul style="list-style-type: none"> {Cranks}
A01K 89/01	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> .. {with closed face}
A01K 89/0105	<ul style="list-style-type: none"> .. {Multi-speed mechanisms}
A01K 89/0108	<ul style="list-style-type: none"> .. {Pick-up details}
A01K 89/0111	<ul style="list-style-type: none"> .. {Spool details}
A01K 89/0114	<ul style="list-style-type: none"> .. {Reciprocating mechanisms}
A01K 89/0117	<ul style="list-style-type: none"> .. {Anti-reverse mechanisms}
A01K 89/012	<ul style="list-style-type: none"> .. motor-driven
A01K 89/015	<ul style="list-style-type: none"> with rotary drum (A01K 89/033 takes precedence)
A01K 89/0155	<ul style="list-style-type: none"> .. Antibacklash devices
A01K 89/01555	<ul style="list-style-type: none"> ... {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	<ul style="list-style-type: none"> Containers or holders for hooks, lines, sinkers, flies or the like
A01K 97/08	<ul style="list-style-type: none"> Containers for rods
A01K 97/10	<ul style="list-style-type: none"> Supports for rods
A01K 97/11	<ul style="list-style-type: none"> <ul style="list-style-type: none"> with automatic hooking devices
A01K 97/12	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> <ul style="list-style-type: none"> {using electronic components}
A01K 97/14	<ul style="list-style-type: none"> Gaffs
A01K 97/16	<ul style="list-style-type: none"> Devices for drying fishing lines
A01K 97/18	<ul style="list-style-type: none"> for removing fish-hooks from the fish
A01K 97/20	<ul style="list-style-type: none"> Keepnets or other containers for keeping captured fish (A01K 97/05 takes precedence)
A01K 97/22	<ul style="list-style-type: none"> Platforms or seat-boxes specially adapted for angling, e.g. tackle boxes for use as seats
A01K 97/24	<ul style="list-style-type: none"> Arrangements for disengaging fish-hooks from obstacles
A01K 97/26	<ul style="list-style-type: none"> Fly tying devices
A01K 97/28	<ul style="list-style-type: none"> <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Animals modified by non-integrating nucleic acids, e.g. antisense, RNAi, morpholino, episomal vector, for non-therapeutic purpose
A01K 2207/10	<ul style="list-style-type: none"> Animals modified by protein administration, for non-therapeutic purpose
A01K 2207/12	<ul style="list-style-type: none"> Animals modified by administration of exogenous cells
A01K 2207/15	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Animals treated with compounds which are neither proteins nor nucleic acids
A01K 2207/25	<ul style="list-style-type: none"> Animals on a special diet
A01K 2207/30	<ul style="list-style-type: none"> Animals modified by surgical methods
A01K 2207/35	<ul style="list-style-type: none"> Animals modified by environmental factors, e.g. temperature, O₂
A01K 2217/00	Genetically modified animals
A01K 2217/03	<ul style="list-style-type: none"> Animals modified by random mutagenesis, e.g. using ENU, chemicals
A01K 2217/05	<ul style="list-style-type: none"> Animals comprising random inserted nucleic acids (transgenic)
A01K 2217/052	<ul style="list-style-type: none"> <ul style="list-style-type: none"> 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