

**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 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 Dehorners; 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:** 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 seF21, [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](#)**

**Guidance heading:**

- 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

**Guidance heading:**

- 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, O<sub>2</sub>

**Guidance heading:****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