

CPC COOPERATIVE PATENT CLASSIFICATION

A HUMAN NECESSITIES

AGRICULTURE

A01 AGRICULTURE; FORESTRY; ANIMAL HUSBANDRY; HUNTING; TRAPPING; FISHING

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.

WARNING

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

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

1/00 Housing animals; Equipment therefor

- 1/0005 . {Stable partitions (devices for fastening animals [A01K 1/06](#); pasturing enclosures [A01K 3/00](#))}
- 1/0011 . . {Cubicle partitions}
- 1/0017 . . {Gates, doors}
- 1/0023 . . . {Sorting gates}
- 1/0029 . . . {Crowding gates or barriers}
- 1/0035 . {Transportable or mobile animal shelters}
- 1/0041 . {Rotary, round or circular animal barns}
- 1/0047 . {Air-conditioning, e.g. ventilation, of animal housings}
- 1/0052 . . {Arrangement of fans or blowers}
- 1/0058 . . {Construction of air inlets or outlets in roofs}
- 1/0064 . . {Construction of air inlets or outlets in walls}
- 1/007 . . {Arrangement of curtain systems}
- 1/0076 . . {Arrangement of heaters or heat exchangers}
- 1/0082 . . {Water misting or cooling systems}
- 1/0088 . {Animal shelters especially adapted for keeping young cattle, i.e. calves}
- 1/0094 . {Animal shelters or barns especially adapted for keeping horses}
- 1/01 . Removal of dung or urine, {e.g. from stables} ([A01K 1/015](#) takes precedence; {from poultry houses [A01K 31/04](#)})
- 1/0103 . . {of liquid manure (treating manure [A01C 3/00](#); treatment of water, waste water, sewage or sludge [C02F](#))}
- 1/0107 . . {Cat trays; Dog urinals; Toilets for pets}
- 1/011 . . . {with means for removing excrement ([A01K 1/0114](#) and [A01K 1/0117](#) take precedence)}
- 1/0114 . . . {Litter boxes with screens for separating excrement from litter}
- 1/0117 . . . {with conveying belts for removing excrement}

- 1/0121 . . . {adapted to fit on conventional toilets}
- 1/0125 . . . {Foldable or collapsible litter boxes}
- 1/0128 . . {by means of scrapers or the like moving continuously}
- 1/0132 . . {by means of scrapers or the like moving to-and-fro or step-by-step}
- 1/0135 . . {by means of conveyor belts}
- 1/0139 . . {by means of screw conveyors}
- 1/0142 . . {by means of a moving piston}
- 1/0146 . . {by means of manure-loaders, manure-ramps or manure-elevators associated with in-house removal systems (independent manure-loaders [A01C 3/04](#))}
- 1/015 . Floor coverings, e.g. bedding-down sheets {; Stable floors (for poultry cages [A01K 31/007](#))}
- 1/0151 . . {Grids; Gratings; Slatted floors}
- 1/0152 . . {Litter}
- 1/0154 . . . {comprising inorganic material}
- 1/0155 . . . {comprising organic material}
- 1/0157 . . {Mats; Sheets}
- 1/0158 . . {Floor heating or cooling systems}
- 1/02 . Pigsties; Dog-kennels; Rabbit-hutches or the like
- 1/0209 . . {Feeding pens for pigs or cattle}
- 1/0218 . . {Farrowing or weaning crates}
- 1/0227 . . {Battery cages for piglets}
- 1/0236 . . {Transport boxes, bags, cages, baskets, harnesses for animals; Fittings therefor (for poultry [A01K 31/002](#); for pigeons [A01K 31/07](#))}
- 1/0245 . . . {Boxes or cages}
- 1/0254 . . . {Bags or baskets}
- 1/0263 . . . {Harnesses}
- 1/0272 . . . {Boxes, bags, cages, baskets, harnesses especially adapted for transport in or on automobiles}

- 1/0281 . . . {Boxes, bags, cages, baskets, harnesses especially adapted for transport in or on bicycles or motorcycles}
- 1/029 . . . {Boxes, bags, cages, baskets, harnesses especially adapted for carrying the animal on the body of a person ([baby carriers A47D 13/02](#))}
- 1/03 . . Housing for domestic or laboratory animals
- 1/031 . . . {Cages for laboratory animals; Cages for measuring metabolism of animals}
- 1/032 . . . {Rabbit-hutches or cages}
- 1/033 . . . {Cat or dog houses}
- 1/034 {Dog-kennels}
- 1/035 . . Devices for use in keeping domestic animals, e.g. fittings in housings or dog beds
- 1/0353 . . . {Dog beds}
- 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](#))}
- 1/04 . Tethering-poles or the like
- 1/06 . Devices for fastening animals, e.g. halters, toggles, neck-bars or chain fastenings
- 1/0606 . . {by means of grids with or without movable locking bars ([A01K 1/08](#) takes precedence)}
- 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](#))}
- 1/062 . . Neck-bars {, e.g. neck collars}
- 1/064 . . Chain fastenings
- 1/08 . Arrangements for simultaneously releasing several animals
- 1/10 . Feed racks
- 1/105 . . {Movable feed barriers, slides or fences}
- 1/12 . Milking stations ([devices for milking A01J 1/00 - A01J 9/00](#))
- 1/123 . . {Mobile milking parlours}
- 1/126 . . {Carousels}
- 3/00 Pasturing equipment, e.g. tethering devices; {Guiding corridors; Corrals, e.g. portable, collapsible;} Grids for preventing cattle from straying; Electrified wire fencing (electric circuits or apparatus for supplying electric wire fencing H05C)**
- 3/002 . {Grids for preventing cattle from straying}
- 3/005 . {Electrified wire fencing ([circuits H05C](#))}
- 2003/007 . {Fencing and guiding systems for amphibia}
- 5/00 Feeding devices for stock or game ([A01K 1/10](#) takes precedence; feeding devices for poultry or other birds [A01K 39/00](#)) {; Feeding wagons; Feeding stacks}**
- 5/001 . {Fodder distributors with mixer or shredder ([adaptations of cutting machine A01F 29/00](#))}
- 5/002 . . {with mixing or shredding element rotating on horizontal axis}
- 5/004 . . {with mixing or shredding element rotating on vertical axis}
- 5/005 . . {where fodder, e.g. bales, is conveyed by conveyor or slide to mixing or shredding elements on transversal and horizontal axes}
- 5/007 . . {with mixing or shredding area contained inside an endless chain or belt conveyor}
- 5/008 . {Feed bags}
- 5/01 . Feed troughs; Feed pails { ([A01K 1/10](#) takes precedence)}
- 5/0107 . . {Transportable fodder pails or troughs}
- 5/0114 . . {Pet food dispensers; Pet food trays ([time-controlled A01K 5/0291](#))}
- 5/0121 . . . {Disposable pet feeders}
- 5/0128 . . . {Pet feeders with liners}
- 5/0135 . . . {with means for preventing or catching spillage}
- 5/0142 . . . {with means for preventing other animals or insects from eating}
- 5/015 . Licking-stone holders {; Other dispensers for minerals}
- 5/02 . Automatic devices { ([automatic identification devices for stock A01K 11/006](#))}
- 5/0208 . . {with conveyor belts or the like}
- 5/0216 . . {for the distribution of liquid fodder ([A01K 9/00](#) takes precedence)}
- 5/0225 . . {Gravity replenishment from a reserve, e.g. a hopper ([for poultry A01K 39/012](#))}
- 5/0233 . . . {dispensing by dosing means actively operated by the animal}
- 5/0241 . . . {dispensing by means of stirring mechanisms or agitators operated by the animal}
- 5/025 . . . {with access to feeding place or trough only possible through access doors or lids to be opened by the animal}
- 5/0258 . . {with endless screws}
- 5/0266 . . {with stable trolleys, e.g. suspended}
- 5/0275 . . {with mechanisms for delivery of measured doses ([A01K 5/0233](#) takes precedence)}
- 5/0283 . . . {by weight}
- 5/0291 . . {with timing mechanisms, e.g. pet feeders}
- 7/00 Watering equipment for stock or game**
- 7/005 . {Drinking bowls with anti-splash or anti-spilling features}
- 7/02 . Automatic devices {; Medication dispensers}
- 7/022 . . {Pumps actuated by the drinking animal}
- 7/025 . . {Water tanks}
- 7/027 . . {Drinking equipment with water heaters, coolers or means for preventing freezing}
- 7/04 . . actuated by float
- 7/06 . . actuated by the animal {through valve control ([for poultry A01K 39/0213](#))}
- 9/00 Sucking apparatus for young stock {; Devices for mixing solid food with liquids}**
- 9/005 . {Teats or nipples (teats for feeding bottles for humans [A61J 11/00](#))}
- 11/00 Marking of animals (marking poultry or other birds [A01K 35/00](#))**
- 11/001 . {Ear-tags}
- 11/002 . . {Pliers specially adapted for fixing ear-tags to ears}
- 11/003 . . {with means for taking tissue samples, e.g. for DNA analysis}
- 11/004 . . {with electronic identification means, e.g. transponders}
- 11/005 . {Branding or tattooing devices for animals}

- 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](#))}
- 11/007 . . {Boluses}
- 11/008 . . {incorporating GPS}
- 13/00 Devices for grooming or caring of animals, e.g. curry-combs; Fetlock rings; Tail-holders (as part of the harness [B68B 5/04](#)); Devices for preventing crib-biting; Washing devices; Protection against weather conditions or insects**
- 13/001 . {Washing, cleaning, or drying devices (for veterinary purposes [A61D 7/00](#), [A61D 11/00](#))}
- 13/002 . {Curry-combs; Shearing sheep chemically (shearing sheep [B26B 19/24](#))}
- 13/003 . {Devices for applying insecticides or medication ([A01K 27/007](#) takes precedence; for veterinary purposes [A61D 7/00](#))}
- 13/004 . {Rubbing-posts}
- 13/005 . {Tail-holders}
- 13/006 . {Protective coverings (Elastic soles or covers for hoofs [A01L 5/00](#), [A01L 7/02](#); for veterinary purposes [A61D](#))}
- 13/007 . . {Leg, hoof or foot protectors}
- 13/008 . . {Horse blankets}
- 14/00 Removing the fleece from live sheep or similar animals (hand-held clippers or shavers with a plurality of cutting edges, specially adapted for shearing animals, e.g. sheep, [B26B 19/24](#))**
- 15/00 Devices for taming animals, e.g. nose-rings or hobbles; Devices for overturning animals in general; Training or exercising equipment; Covering boxes**
- 15/003 . {Nose-rings; Fastening tools therefor; Catching or driving equipment}
- 15/006 . {Devices for impeding passage of animals under fences, preventing butting or the like}
- 15/02 . Training or exercising equipment, e.g. mazes or labyrinths for animals ([A01K 15/04](#) takes precedence) {; Electric shock devices (circuits therefor [H03K 3/537](#)); Toys, e.g. for pets}
- 15/021 . . {Electronic training devices specially adapted for dogs or cats}
- 15/022 . . . {Anti-barking devices}
- 15/023 . . . {Anti-evasion devices}
- 15/024 . . {Scratching devices, e.g. for cats}
- 15/025 . . {Toys, e.g. for chewing}
- 15/026 . . . {Chewable toys, e.g. for dental care of pets}
- 15/027 . . {Exercising equipment, e.g. tread mills, carousels (equipment for racing or riding sports events [A63K](#))}
- 15/028 . . {Cow trainers}
- 15/029 . . {Electric or similar shock devices, e.g. prods (circuits therefor [H03K 3/537](#))}
- 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](#))}
- 17/00 Dehorner; Horn trainers**
- 19/00 Weaning apparatus**

- 21/00 Devices for assisting or preventing mating**
- 23/00 Manure or urine pouches {(picking up dog excrement from the ground [E01H 1/1206](#))}**
- 23/005 . {Manure or urine collecting devices used independently from the animal, i.e. not worn by the animal but operated by a person}
- 25/00 Muzzles**
- 27/00 Leads or collars, e.g. for dogs**
- 27/001 . {Collars}
- 27/002 . {Harnesses}
- 27/003 . {Leads, leashes}
- 27/004 . . {Retractable leashes}
- 27/005 . {Quick-couplings, safety-couplings or shock-absorbing devices between leash and collar}
- 27/006 . {with light-emitting or ornamental devices}
- 27/007 . {with insecticide-dispensing means}
- 27/008 . {with pockets or similar for carrying accessories}
- 27/009 . {with electric-shock, sound, magnetic- or radio-waves emitting devices}
- 29/00 Other apparatus for animal husbandry {(detecting birth of animals [A61D 17/00](#))}**
- 29/005 . {Monitoring or measuring activity, e.g. detecting heat or mating}

Aviculture; Testing, cleaning, stamping or grading eggs

- 31/00 Housing birds**
- 31/002 . {Poultry cages, e.g. transport boxes (poultry transport [A01K 45/005](#))}
- 31/005 . . {Battery breeding cages, with or without auxiliary features, e.g. feeding, watering, demanuring, heating, ventilation}
- 31/007 . . {Floors (for stables [A01K 1/015](#))}
- 31/02 . Door appliances; Automatic door-openers
- 31/04 . Dropping-boards; Devices for removing excrement
- 31/06 . Cages {, e.g. for singing birds (for poultry [A01K 31/002](#))}
- 31/07 . . Transportable cages ([A01K 31/08](#) takes precedence) {; Travelling cages for pigeons; Opening or closing of cages}
- 31/08 . . Collapsible cages
- 31/10 . Doors; Trap-doors {(for laying-nests [A01K 31/16](#))}
- 31/12 . Perches {for poultry or birds, e.g. roosts}
- 31/14 . Nest-boxes {, e.g. for singing birds or the like}
- 31/16 . . Laying-nests for poultry; Egg collecting {(nest floors [A01K 31/007](#))}
- 31/165 . . . {Egg collecting or counting}
- 31/17 . . . Laying batteries {including auxiliary features, e.g. feeding, watering, demanuring, heating, ventilation}
- 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](#))}
- 31/19 . . Brooders {; Foster-mothers; Hovers}
- 31/20 . . Heating arrangements {; Ventilation}
- 31/22 . Poultry runs {; Poultry houses, including auxiliary features, e.g. feeding, watering, demanuring (air-conditioning of poultry runs or houses [A01K 1/0047](#))}
- 31/24 . Dovecots; Pigeon lofts

33/00	Nest-eggs	49/00	Rearing-boxes; Queen transporting or introducing cages
35/00	Marking poultry or other birds {(marking meat A22C 17/10)}	51/00	Appliances for treating beehives or parts thereof, e.g. for cleaning or disinfecting
37/00	Constraining birds, e.g. wing clamps	53/00	Feeding or drinking appliances for bees
39/00	Feeding or drinking appliances for poultry or other birds {(A01K 31/005, A01K 31/06, A01K 31/17 take precedence)}	55/00	Bee-smokers; Bee-keepers' accessories, e.g. veils
39/01	. Feeding devices, {e.g. chainfeeders} (A01K 39/04 takes precedence; {panfeeding systems, feeding pans A01K 39/0125 })	57/00	Appliances for providing, preventing or catching swarms; Drone-catching devices
39/0106	. . {for solid feed, e.g. grit-cake holders (licking-stone holders for stock or game A01K 5/015)}	59/00	Honey collection
39/0113	. . {with means to prevent other animals or insects, e.g. squirrels or ants, from eating also}	59/02	. Devices for uncapping honeycombs
39/012	. . filling automatically {, e.g. by gravity from a reserve}	59/04	. Honey strainers {; Strainers with centrifuges or presses}
39/0125	. . . {Panfeeding systems; Feeding pans therefor}	59/06	. Devices for extracting wax
39/014	. . Feed troughs; Feed throwers	Pisciculture; Aquaria; Terraria	
39/02	. Drinking appliances (A01K 39/04 takes precedence)	61/00	Culture of aquatic animals (receptacles for live fish, e.g. aquaria, A01K 63/00)
39/0206	. . {Drinkers especially adapted for feeding hummingbirds}	61/10	. of fish
39/0213	. . {Nipple drinkers}	61/13	. . Prevention or treatment of fish diseases
39/022	. . with weight-controlled supply	61/17	. . Hatching, e.g. incubators
39/024	. . with float-controlled supply	61/20	. of zooplankton, e.g. water fleas or Rotatoria
39/026	. . kept filled to constant level from incorporated storage	61/30	. of sponges, sea urchins or sea cucumbers
39/04	. Combined feeding and drinking appliances {, e.g. also for batteries}	61/40	. of annelids, e.g. lugworms or Eunice
39/06	. Cramming appliances {, e.g. helical force-feeders}	61/50	. of shellfish (A01K 61/30 , A01K 61/40 take precedence)
41/00	Incubators for poultry	61/51	. . of gastropods, e.g. abalones or turban snails
41/02	. Heating arrangements	61/53	. . . Baskets therefor
41/023	. . {Devices for regulating temperature}	61/54	. . of bivalves, e.g. oysters or mussels
41/026	. . {Heating with water}	61/55	. . . Baskets therefor
41/04	. Controlling humidity in incubators	61/56	. . . for pearl production
41/06	. Egg-turning appliances for incubators	61/57 Pearl seeds
41/065	. . {Egg drawers}	61/59	. . of crustaceans, e.g. lobsters or shrimps
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}	61/60	. Floating cultivation devices, e.g. rafts or floating fish-farms
43/005	. {Cleaning, washing of eggs}	61/65	. . Connecting or mooring devices therefor
43/04	. Grading eggs	61/70	. Artificial fishing banks or reefs
43/06	. . according to size	61/72	. . made of tyres
43/08	. . according to weight	61/73	. . assembled of components (A01K 61/72 takes precedence)
43/10	. . Grading and stamping	61/75	. . floating (A01K 61/72 takes precedence)
45/00	Other aviculture appliances, e.g. devices for determining whether a bird is about to lay	61/77	. . of monolithic form, e.g. blocks
45/002	. {Bird baths or showers}	61/78	. . Arrangements for sinking or mooring thereof
45/005	. {Harvesting or transport of poultry}	61/80	. Feeding devices
45/007	. {Injecting or otherwise treating hatching eggs}	61/85	. . for use with aquaria
Apiculture {(rearing insects in general A01K 67/00)}		61/90	. Sorting, grading, counting or marking live aquatic animals, e.g. sex determination
47/00	Beehives	61/95	. . specially adapted for fish
47/02	. Construction or arrangement of frames for honeycombs	63/00	Receptacles for live fish, e.g. aquaria (keepnets or other containers for keeping captured fish A01K 97/20); Terraria
47/04	. Artificial honeycombs	63/003	. {Aquaria; Terraria (A01K 63/04 , A01K 63/06 take precedence)}
47/06	. Other details of beehives, e.g. ventilating devices, entrances to hives, guards, partitions or bee escapes	63/006	. . {Accessories for aquaria or terraria}
		63/02	. Receptacles specially adapted for transporting live fish
		63/04	. Arrangements for treating water specially adapted to receptacles for live fish
		63/042	. . {Introducing gases into the water, e.g. aerators, air pumps}

- 63/045 . . {Filters for aquaria}
- 63/047 . . {Liquid pumps for aquaria ([air pumps for aquaria A01K 63/042](#))}
- 63/06 . . Arrangements for heating or lighting in, or attached to, receptacles for live fish
- 63/065 . . {Heating or cooling devices}
- 63/10 . . Cleaning bottoms or walls of ponds or receptacles
- 65/00 Fish stringers** {(devices for threading fish on strings [A22C 25/10](#))}
- 67/00 Rearing or breeding animals, not otherwise provided for; New breeds of animals**
- 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.
- 67/02 . . Breeding vertebrates
- 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}
- 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
- 67/0271 . . {Chimeric animals, e.g. comprising exogenous cells}
- 67/0273 . . {Cloned animals}
- 67/0275 . . {Genetically modified vertebrates, e.g. transgenic}
- 67/0276 . . . {Knockout animals}
- 67/0278 . . . {Humanized animals, e.g. knockin}
- 67/033 . . Rearing or breeding invertebrates; New breeds of invertebrates
- 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
- 67/0331 . . {Snails ([A01K 67/0333](#) takes precedence)}
- 67/0332 . . {Earthworms ([A01K 67/0333](#) takes precedence)}
- 67/0333 . . {Genetically modified invertebrates, e.g. transgenic, polyploid}
- 67/0334 . . . {Genetically modified Molluscs}
- 67/0335 . . . {Genetically modified worms}
- 67/0336 {Genetically modified Nematodes, e.g. *Caenorhabditis elegans*}
- 67/0337 . . . {Genetically modified Arthropods}
- 67/0338 {Genetically modified Crustaceans}

- 67/0339 {Genetically modified insects, e.g. *Drosophila melanogaster*, medfly}
- 67/04 . . Silkworms ([A01K 67/0333](#) takes precedence)

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

- 69/00 Stationary catching devices**
- 69/02 . . Fixed nets without traps
- 69/04 . . Fixed nets with traps
- 69/06 . . Traps
- 69/08 . . Rigid traps, e.g. lobster pots
- 69/10 . . Collapsible traps
- 71/00 Floating nets** {(if drawn [A01K 73/00](#))}
- 73/00 Drawn nets**
- 73/02 . . Trawling nets
- 73/025 . . {Regulation of net depth}
- 73/04 . . Devices for spreading or positioning, e.g. control thereof
- 73/045 . . . for lateral sheering, e.g. trawl boards
- 73/05 . . . for vertical sheering
- 73/053 . . . Ground-line rollers
- 73/06 . . Hauling devices for the headlines {, also for nets; Winches ([A01K 73/12](#) takes precedence)}
- 73/10 . . Determining the quantity of the catch, e.g. by the pull or drag on the lines
- 73/12 . . Nets held vertically in the water, e.g. seines
- 74/00 Other catching nets or the like**
- 75/00 Accessories for nets; Details of nets, e.g. structure**
- 75/02 . . Illuminating devices for nets
- 75/04 . . Floats
- 75/06 . . Sinkers
- 77/00 Landing-nets; Landing-spoons**
- 79/00 Methods or means of catching fish in bulk not provided for in groups [A01K 69/00](#) - [A01K 77/00](#), {e.g. fish pumps; Detection of fish; Whale fishery}**
- 79/02 . . by electrocution {; Attracting or stunning fish; Scaring sharks}
- 80/00 Harvesting oysters, mussels, sponges or the like**
- 81/00 Fishing with projectiles** (weapons, projectiles other than fish-spears [F41](#), [F42](#))
- 81/04 . . Fish-spears
- 81/06 . . Equipment for hunting fish under water (swimming equipment [A63B 31/00](#) - [A63B 35/00](#))

Angling

- 83/00 Fish-hooks** {(making fish-hooks [B21F 45/12](#))}
- 83/02 . . Expanding fish-hook assembly
- 83/04 . . with special gripping arms
- 83/06 . . Devices for holding bait on hooks {(baiting trotlines [A01K 91/18](#); non-living bait [A01K 97/045](#))}
- 85/00 Artificial baits, {i.e. Lures}**
- 85/005 . . {without hooks}
- 85/01 . . with light emission, sound emission, scent dispersal or the like
- 85/02 . . with means for concealing or protecting hooks, e.g. to prevent entanglement with weeds
- 85/08 . . Artificial flies

- 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}
- 85/12 . . comprising a body rotating around its longitudinal axis, e.g. devons
- 85/14 . . with flat, or substantially flat, undulating bodies, e.g. spoons
- 85/16 . . with other than flat, or substantially flat, undulating bodies, e.g. plugs
- 85/18 . . in two or more pieces
- 87/00 Rods**
- 87/002 . . {with the line passing through the hollow rod}
- 87/005 . . {comprising internal line guides}
- 87/007 . . {with built-in accessories, e.g. lighting means or measuring devices}
- 87/02 . . Connecting devices for parts of the rods
- 87/025 . . {telescopic}
- 87/04 . . Fishing-line guides on rods {, e.g. tips (internal line guides [A01K 87/005](#))}
- 87/06 . . Devices for fixing reels on rods
- 87/08 . . Handgrips
- 87/085 . . {Heating devices or other means to protect against the cold}
- 89/00 Reels (devices for casting lines [A01K 91/02](#))**
- 89/003 . . {Devices for transferring line to a reel}
- 89/004 . . {Alternate right or left side drives}
- 89/006 . . {Hand crank features}
- 89/009 . . {Collapsible or extensible}
- 89/01 . . with pick-up, i.e. with the guiding member rotating and the spool not rotating during normal retrieval of the line ([A01K 89/027](#) takes precedence)
- 89/0102 . . {with a closed face}
- 89/01025 . . . {with line snubber shifted by a remote actuator}
- 89/01026 {with rotor and snubber shiftable axially}
- 89/01029 {with guiding members shifted radially}
- 89/0105 . . {Multi-speed mechanisms}
- 89/0106 . . {Ratchet-type drives}
- 89/0108 . . {Pick-up details}
- 89/01081 . . . {Guiding members on rotor axially rearward of spool}
- 89/01082 {Guiding members shiftable on rotor}
- 89/01083 {to wind position by rotor drive}
- 89/01084 {Guiding members shifted to unwind position by discrete manual operators}
- 89/01085 . . . {Guiding members on rotor forward of spool ([A01K 89/0102](#) takes precedence)}
- 89/01086 {with rotor drive shifting the guiding member to unwind and wind positions}
- 89/01087 {with manual actuator to shift guiding member to unwind position}
- 89/01088 {Actuators forward of spool}
- 89/0111 . . {Spool details}
- 89/01121 . . {Frame details}
- 89/011221 . . . {with line or water shields}
- 89/011222 . . . {with lubrication features}
- 89/011223 . . . {with bearing features}
- 89/01123 . . . {Frame disassembly features}
- 89/01124 {Hinged frame sections}
- 89/01125 {Rotated joints}
- 89/01126 {Threaded}
- 89/01127 . . . {Reel supports}
- 89/0113 . . . {Spool locking devices on spool shaft}
- 89/0114 . . . {Reciprocating mechanisms}
- 89/01141 {including eccentric cams reciprocating the spool}
- 89/01142 {for reciprocating the guiding member}
- 89/01143 {Reversely threaded screws}
- 89/0117 . . . {Anti-reverse mechanisms}
- 89/0118 {defining home position of reel part}
- 89/012 . . . motor-driven
- 89/0121 {Spring motors}
- 89/0122 . . . {with unwinding indicators, e.g. bell or flashing light}
- 89/0123 {Clicking indicators, e.g. flexible pawl and toothed member}
- 89/0124 {Spring biased pawls}
- 89/0125 {Plural spring sections}
- 89/0126 . . . {with line unwinding limiters}
- 89/015 . . with {a} rotary drum {, i.e. with a rotating spool} ([A01K 89/033](#) takes precedence)
- 89/0155 . . . Antibacklash devices
- 89/01555 {using magnets}
- 89/01556 {Line tension responsive actuators}
- 89/01557 {Centrifugal}
- 89/016 . . . Fly reels {, i.e. with a stub shaft support}
- 89/0162 {with a releasable latch to retain spool on shaft}
- 89/0165 . . . for trolling
- 89/017 . . . motor-driven
- 89/0171 {Spring motors}
- 89/0172 {actuated in response to pull on line}
- 89/0173 {with independent manual drive}
- 89/0174 {with spring chargers}
- 89/0175 . . . {Axial unwinding}
- 89/0176 {with guide shiftable between wind and unwind positions}
- 89/0178 . . . {with unwinding indicators, e.g. a bell or a flashing light}
- 89/0179 {Clicking indicators, e.g. flexible pawl and toothed member}
- 89/018 {Spring biased pawls}
- 89/0181 {Plural spring sections}
- 89/0182 . . . {with line unwinding limiters}
- 89/0183 . . . {Drive mechanism details}
- 89/0184 {Multiple drive ratio}
- 89/0185 {Ratchet-type drive}
- 89/0186 {with disengageable positive drive components, e.g. a clutch}
- 89/0187 {having alternative yieldable mechanism}
- 89/0188 {Axially engaged}
- 89/0189 {Coaxial of spool}
- 89/01901 {Reengageable responsive to drive rotation}
- 89/01902 {Gear pair}
- 89/01903 {with yieldable drive coupling, e.g. friction or fluid clutch}
- 89/01904 {adjustable by crank manipulation}
- 89/01905 {adjustable within distinct ranges}
- 89/01906 {between drive shaft and crank}
- 89/01907 {between drive shaft and gear}
- 89/01908 {Coaxial with spool}
- 89/01909 {Axially applied}
- 89/0191 {by centre pin}
- 89/01911 {with feed roller}

- 89/01912 . . . {with level winding}
- 89/019125 {Line shifts along a rotatable cam bar}
- 89/01913 {Line traction guide wheels}
- 89/01914 {Manually shifted guides}
- 89/01915 {the drive mechanism oscillating the guide}
- 89/01916 {the drive mechanism reciprocating the guide}
- 89/01917 {Reversely threaded screw}
- 89/01918 {Guide shiftable between wind and unwind positions}
- 89/01919 {Guide having line removal opening}
- 89/0192 . . {Frame details}
- 89/01921 . . . {Frame disassembly features}
- 89/01922 {Hinged frame sections}
- 89/01923 {Rotated joints}
- 89/01924 {Threaded}
- 89/01925 . . . {Reel supports, e.g. reel feet}
- 89/01928 . . . {with line or water shields}
- 89/01929 . . . {with lubrication features}
- 89/0193 . . . {with bearing features}
- 89/01931 . . {Spool or spool shaft details (spool details in reel with pick-up [A01K 89/0111](#))}
- 89/02 . . Brake devices for reels
- 89/027 . . . with pick-up {, i.e. for reels with the guiding member rotating and the spool not rotating during normal retrieval of the line}
- 89/0275 . . . {with closed face}
- 89/028 . . . {Continuously applied (for closed face reels [A01K 89/0275](#))}
- 89/029 {between spool shaft and frame}
- 89/03 {between spool and spool shaft}
- 89/033 . . . with {a} rotary drum {, i.e. for reels with a rotating spool (antibacklash devices [A01K 89/0155](#))}
- 89/045 {Spool bearing brake}
- 89/046 {Manual pressure control}
- 89/047 {Radially applied}
- 89/048 {Rolling contact}
- 89/049 {Separable attachments}
- 89/05 . . . {Brakes connected to the spool by one-way clutch}
- 89/051 . . . {Adjustable pressure pawls, e.g. braking clickers}
- 89/052 . . . {Positive}
- 89/053 {One-way}
- 89/054 {with disabler}
- 89/055 {Rotation responsive}
- 89/056 . . . {Radially engaged}
- 89/057 . . . {Axially engaged}
- 89/058 {Coaxial with spool}
- 89/059 {on adjustable lever}
- 89/06 . . Reversible reels {, i.e. with spool axis shiftable between winding and unwinding positions}
- 89/08 . . Pole-less fishing apparatus, i.e. hand-held reels
- 89/081 . . {Axial unwinding}

91/00 Lines

- 91/02 . . Devices for casting lines
- 91/03 . . Connecting devices (devices for fixing on or removing sinkers from lines [A01K 95/02](#))
- 91/04 . . . for connecting lines to hooks or lures
- 91/047 . . . for connecting lines to lines

- 91/053 . . Fishing booms, i.e. connecting devices spreading out the leaders, e.g. to avoid tangling thereof
- 91/06 . . Apparatus on lines not otherwise provided for, e.g. automatic hookers
- 91/065 . . . {Jiggling devices, i.e. devices for moving the lure}
- 91/08 . . Trolling devices
- 91/10 . . . for automatic hook setting
- 91/12 . . Fly lines
- 91/14 . . Leaders
- 91/16 . . . for fly fishing
- 91/18 . . Trotlines, longlines; Accessories therefor, e.g. baiting devices, lifters or setting reelers
- 91/20 . . Line length or depth measuring devices

93/00 Floats for angling, with or without signalling devices

- 93/02 . . with signalling devices

95/00 Sinkers for angling (for trawling [A01K 75/06](#))

- 95/005 . . {Sinkers not containing lead}
- 95/02 . . Devices for fixing on or removing sinkers from lines

97/00 Accessories for angling (fish stringers [A01K 65/00](#); landing-nets or landing-spoons for fishing [A01K 77/00](#)) (; fish finder [G01S 15/96](#))

- 97/01 . . for ice-fishing {; Ice drilling, hook-setting or signalling devices}
- 97/02 . . Devices for laying ground-bait, e.g. chum dispensers {, e.g. also for throwing ground-bait}
- 97/04 . . Containers for bait; Preparation of bait
- 97/045 . . . {Preparation of bait; Ingredients}
- 97/05 . . . Containers for live bait kept in water, e.g. for minnows or shrimps
- 97/06 . . Containers or holders for hooks, lines, sinkers, flies or the like
- 97/08 . . Containers for rods
- 97/10 . . Supports for rods
- 97/11 . . . with automatic hooking devices
- 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](#))}
- 97/125 . . . {using electronic components}
- 97/14 . . Gaffs
- 97/16 . . Devices for drying fishing lines
- 97/18 . . for removing fish-hooks from the fish
- 97/20 . . Keepnets or other containers for keeping captured fish ([A01K 97/05](#) takes precedence)
- 97/22 . . Platforms or seat-boxes specially adapted for angling, e.g. tackle boxes for use as seats
- 97/24 . . Arrangements for disengaging fish-hooks from obstacles
- 97/26 . . Fly tying devices
- 97/28 . . Vices specially adapted therefor

99/00 Methods or apparatus for fishing not provided for in groups [A01K 69/00](#) - [A01K 97/00](#)**2207/00 Modified animals**

- 2207/05 . . Animals modified by non-integrating nucleic acids, e.g. antisense, RNAi, morpholino, episomal vector, for non-therapeutic purpose

- 2207/10 . Animals modified by protein administration, for non-therapeutic purpose
- 2207/12 . Animals modified by administration of exogenous cells
- 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 [A01K 2217/00](#) codes.

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

2217/00 Genetically modified animals

- 2217/03 . Animals modified by random mutagenesis, e.g. using ENU, chemicals
- 2217/05 . Animals comprising random inserted nucleic acids (transgenic)
 - 2217/052 . . inducing gain of function
 - 2217/054 . . inducing loss of function
 - 2217/056 . . . due to mutation of coding region of the transgene (dominant negative)
 - 2217/058 . . . due to expression of inhibitory nucleic acid, e.g. siRNA, antisense
- 2217/07 . Animals genetically altered by homologous recombination
 - 2217/072 . . maintaining or altering function, i.e. knock in
 - 2217/075 . . inducing loss of function, i.e. knock out
 - 2217/077 . . . heterozygous knock out animals displaying phenotype
- 2217/15 . Animals comprising multiple alterations of the genome, by transgenesis or homologous recombination, e.g. obtained by cross-breeding
- 2217/20 . Animal model comprising regulated expression system
- 2217/203 . . Animal model comprising inducible/conditional expression system, e.g. hormones, tet
- 2217/206 . . Animal model comprising tissue-specific expression system, e.g. tissue specific expression of transgene, of Cre recombinase
- 2217/30 . Animal model comprising expression system for selective cell killing, e.g. toxins, enzyme dependent prodrug therapy using ganciclovir

2227/00 Animals characterised by species

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

- 2227/706 . . Insects, e.g. Drosophila melanogaster, medfly

2267/00 Animals characterised by purpose

- 2267/01 . Animal expressing industrially exogenous proteins
- 2267/02 . Animal zootechnically ameliorated
- 2267/025 . . Animal producing cells or organs for transplantation
- 2267/03 . Animal model, e.g. for test or diseases
 - 2267/0306 . . Animal model for genetic diseases
 - 2267/0312 . . . Animal model for Alzheimer's disease
 - 2267/0318 . . . Animal model for neurodegenerative disease, e.g. non- Alzheimer's
 - 2267/0325 . . . Animal model for autoimmune diseases
 - 2267/0331 . . Animal model for proliferative diseases
 - 2267/0337 . . Animal models for infectious diseases
 - 2267/0343 . . . Animal model for prion disease
 - 2267/035 . . Animal model for multifactorial diseases
 - 2267/0356 . . . Animal model for processes and diseases of the central nervous system, e.g. stress, learning, schizophrenia, pain, epilepsy
- 2267/0362 . . . Animal model for lipid/glucose metabolism, e.g. obesity, type-2 diabetes
- 2267/0368 . . . Animal model for inflammation
- 2267/0375 . . . Animal model for cardiovascular diseases
- 2267/0381 . . . Animal model for diseases of the hematopoietic system
- 2267/0387 . . . Animal model for diseases of the immune system
- 2267/0393 . . Animal model comprising a reporter system for screening tests