### 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.

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

<table>
<thead>
<tr>
<th>1/00</th>
<th>Housing animals; Equipment therefor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/0005</td>
<td>{Stable partitions (devices for fastening animals A01K 1/00; pasturing enclosures A01K 3/000)}</td>
</tr>
<tr>
<td>1/0011</td>
<td>{Cubicle partitions}</td>
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<tr>
<td>1/0017</td>
<td>{Gates, doors}</td>
</tr>
<tr>
<td>1/0023</td>
<td>{Sorting gates}</td>
</tr>
<tr>
<td>1/0029</td>
<td>{Crowding gates or barriers}</td>
</tr>
<tr>
<td>1/0035</td>
<td>{Transportable or mobile animal shelters}</td>
</tr>
<tr>
<td>1/0041</td>
<td>{Rotary, round or circular animal barns}</td>
</tr>
<tr>
<td>1/0047</td>
<td>{Air-conditioning, e.g. ventilation, of animal housings}</td>
</tr>
<tr>
<td>1/0052</td>
<td>{Arrangement of fans or blowers}</td>
</tr>
<tr>
<td>1/0058</td>
<td>{Construction of air inlets or outlets in roofs}</td>
</tr>
<tr>
<td>1/0064</td>
<td>{Construction of air inlets or outlets in walls}</td>
</tr>
<tr>
<td>1/007</td>
<td>{Arrangement of curtain systems}</td>
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<td>1/0076</td>
<td>{Arrangement of heaters or heat exchangers}</td>
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<tr>
<td>1/0082</td>
<td>{Water misting or cooling systems}</td>
</tr>
<tr>
<td>1/0088</td>
<td>{Animal shelters especially adapted for keeping young cattle, i.e. calves}</td>
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<tr>
<td>1/0094</td>
<td>{Animal shelters or barns especially adapted for keeping horses}</td>
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<tr>
<td>1/01</td>
<td>Removal of dung or urine, {e.g. from stables (A01K 1/015 takes precedence; from poultry houses A01K 31/04)}</td>
</tr>
<tr>
<td>1/0103</td>
<td>{of liquid manure (treating manure A01C 3/00; treatment of water, waste water, sewage or sludge C02F)}</td>
</tr>
<tr>
<td>1/0107</td>
<td>{Cat trays; Dog urinals; Toilets for pets}</td>
</tr>
<tr>
<td>1/011</td>
<td>{with means for removing excrement (A01K 1/0114 and A01K 1/0117 take precedence)}</td>
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<tr>
<td>1/0114</td>
<td>{Litter boxes with screens for separating excrement from litter}</td>
</tr>
<tr>
<td>1/0117</td>
<td>{with conveying belts for removing excrement}</td>
</tr>
</tbody>
</table>

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}
Animal husbandry in general, especially cattle-raising

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]
5/014 . . . [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 oragitators 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]
Animal husbandry in general, especially cattle-raising

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; Fellock 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 7/000))
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 Dehorners; 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 17/000) }
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}
31/19 . . . . . 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 . . . . . Dovecoats; Pigeon lofts
Aviculture; Testing, cleaning, stamping or grading eggs

47/00 Beehives
35/00 Marking poultry or other birds {(marking meat A22C 17/10)}
37/00 Constraining birds, e.g. wing clamps
39/00 Feeding or drinking devices for poultry or other birds {(A01K 31/00; A01K 31/06; A01K 31/17 take precedence)}

Pisciculture; Aquaria; Terraria

61/00 Culture of aquatic animals (receptacles for live fish, e.g. aquaria, A01K 63/00)
61/10 . . of fish
61/13 . . Prevention or treatment of fish diseases
61/17 . . Hatching, e.g. incubators
61/20 . . of zooplankton, e.g. water fleas or Rotatoria
61/30 . . of sponges, sea urchins or sea cucumbers
61/40 . . of annelids, e.g. lugworms or Eunice
61/50 . . of shellfish (A01K 61/30; A01K 61/40 take precedence)
61/51 . . of gastropods, e.g. abalones or turban snails
61/53 . . Baskets therefor
61/54 . . of bivalves, e.g. oysters or mussels
61/55 . . Baskets therefor
61/56 . . for pearl production
61/57 . . . Pearl seeds
61/59 . . . of crustaceans, e.g. lobsters or shrimps
61/60 . . Floating cultivation devices, e.g. rafts or floating fish-farms
61/65 . . . Connecting or mooring devices therefor
61/70 . . Artificial fishing banks or reefs
61/72 . . . made of tyres
61/73 . . . assembled of components (A01K 61/72 takes precedence)
61/75 . . . floating (A01K 61/72 takes precedence)
61/77 . . . of monolithic form, e.g. blocks
61/78 . . . Arrangements for sinking or mooring thereof
61/80 . . . Feeding devices
61/85 . . . for use with aquaria
61/90 . . . Sorting, grading, counting or marking live aquatic animals, e.g. sex determination
61/95 . . . specially adapted for fish

63/00 Receptacles for live fish, e.g. aquaria (keepnets or other containers for keeping captured fish A01K 97/20); Terraria
63/003 . . . {Aquaria; Terraria (A01K 63/04; A01K 63/06 take precedence)}
63/006 . . . {Accessories for aquaria or terraria}
63/002 . . . 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}
Pisciculture; Aquaria; Terraria

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.

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

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

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

Genetically modified animals, e.g. comprising exogenous cells

Cloned animals

Genetically modified vertebrates, e.g. transgenic

Knockout animals

Humanized animals, e.g. knockin

Rearing or breeding invertebrates: New breeds of invertebrates

Genetically modified molluscs

Genetically modified worms

Genetically modified nematodes, e.g. Caenorhabditis elegans

Genetically modified arthropods

Genetically modified crustaceans

Genetically modified insects, e.g. Drosophila melanogaster, medfly

Silkworms (A01K 67/0333 takes precedence)

Stationary catching devices

Fixed nets without traps

Fixed nets with traps

Traps

Rigid traps, e.g. lobster pots

Collapsible traps

Floating nets (if drawn A01K 73/00)

Drawn nets

Trawling nets

(Regulation of net depth)

Devices for spreading or positioning, e.g. control thereof

for lateral sheering, e.g. trawl boards

for vertical sheering

Ground-line rollers

Hauling devices for the headlines, also for nets; Winches (A01K 73/12 takes precedence)

Determining the quantity of the catch, e.g. by the pull or drag on the lines

Nets held vertically in the water, e.g. seines

Other catching nets or the like

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

Illuminating devices for nets

Floats

Sinks

Landings-nets; Landing-spoons

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

by electrocution; Attracting or stunning fish; Scaring sharks

Harvesting oysters, mussels, sponges or the like

Fishing with projectiles (weapons, projectiles other than fish-spears F41, F42)

Fish-spears

Equipment for hunting fish under water (swimming equipment A63B 31/00 - A63B 35/00)

Fish-hooks (making fish-hooks B21F 45/12)

Expanding fish-hook assembly

with special gripping arms

Devices for holding bait on hooks (baiting trotlines A01K 91/18; non-living bait A01K 97/045)

Artificial baits, i.e. Lures

without hooks

with light emission, sound emission, scent dispersal or the like

with means for concealing or protecting hooks, e.g. to prevent entanglement with weeds

Artificial flies
89/0108 . . . (A01K 89/026)
89/0108 . . . [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]
89/011121 . . . [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 . . . Anti backlash 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. a bell or a flashing light]
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 . . . [Coxial 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 . . . [Coxial with spool]
89/01909 . . . [Axially applied]
89/0191 . . . [by centre pin]
89/01911 . . . [with feed roller]
Angling

Lines

91/00 . Devices for casting lines
91/02 . 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 . (Jigging 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
Animals modified by protein administration, for non-therapeutic purpose
Animals modified by administration of exogenous cells
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.

Animals treated with compounds which are neither proteins nor nucleic acids
Animals on a special diet
Animals modified by surgical methods
Animals modified by environmental factors, e.g. temperature, O₂

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

Animals characterised by species
Mammal
Bovine
Caprine
Ovine
Murine
Primate
Rabbit
Swine
Bird
Fish
Amphibians, e.g. Xenopus
Invertebrates
Worms, e.g. Caenorhabditis elegans

Animals characterised by purpose
Animal expressing industrially exogenous proteins
Animal zootechnically ameliorated
Animal producing cells or organs for transplantation
Animal model, e.g. for test or diseases
Animal model for genetic diseases
Animal model for Alzheimer's disease
Animal model for neurodegenerative disease, e.g. non-Alzheimer's
Animal model for autoimmune diseases
Animal model for proliferative diseases
Animal models for infectious diseases
Animal model for prion disease
Animal model for multifactorial diseases
Animal model for processes and diseases of the central nervous system, e.g. stress, learning, schizophrenia, pain, epilepsy
Animal model for lipid/glucose metabolism, e.g. obesity, type-2 diabetes
Animal model for inflammation
Animal model for cardiovascular diseases
Animal model for diseases of the hematopoietic system
Animal model for diseases of the immune system
Animal model comprising a reporter system for screening tests