

# 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.

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

**1/00 Housing animals; Equipment therefor (building construction, features of buildings [E04](#); ventilating buildings [F24F](#))**

- 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}	5/0128	. . . {Pet feeders with liners}
1/032	. . . {Rabbit-hutches or cages}	5/0135	. . . {with means for preventing or catching spillage}
1/033	. . . {Cat or dog houses}	5/0142	. . . {with means for preventing other animals or insects from eating}
1/034	. . . . {Dog-kennels}	5/015	. Licking-stone holders (salt blocks <a href="#">A23K 20/00</a> ); {Other dispensers for minerals}
1/035	. . Devices for use in keeping domestic animals, e.g. fittings in housings, dog beds	5/02	. Automatic devices {(automatic identification devices for stock <a href="#">A01K 11/006</a> )}
1/0353	. . . {Dog beds}	5/0208	. . {with conveyor belts or the like}
1/0356	. . . {Feeding or drinking devices associated with cages (for poultry <a href="#">A01K 31/005</a> , <a href="#">A01K 31/17</a> , <a href="#">A01K 39/00</a> ; for birds <a href="#">A01K 31/06</a> )}	5/0216	. . {for the distribution of liquid fodder ( <a href="#">A01K 9/00</a> takes precedence)}
1/04	. Tethering-poles or the like	5/0225	. . {Gravity replenishment from a reserve, e.g. a hopper (for poultry <a href="#">A01K 39/012</a> )}
1/06	. Devices for fastening animals, e.g. halters, toggles, neck-bars, chain fastenings	5/0233	. . . {dispensing by dosing means actively operated by the animal}
1/0606	. . {by means of grids with or without movable locking bars ( <a href="#">A01K 1/08</a> takes precedence)}	5/0241	. . . {dispensing by means of stirring mechanisms or agitators operated by the animal}
1/0613	. . {Devices for immobilisation or restraint of animals, e.g. chutes (pens for animals while being shod <a href="#">A01L 13/00</a> ; appliances for supporting or fettering animals for operative purposes <a href="#">A61D 3/00</a> )}	5/025	. . . {with access to feeding place or trough only possible through access doors or lids to be opened by the animal}
1/062	. . Neck-bars[, e.g. neck collars]	5/0258	. . {with endless screws}
1/064	. . Chain fastenings	5/0266	. . {with stable trolleys, e.g. suspended}
1/08	. Arrangements for simultaneously releasing several animals	5/0275	. . {with mechanisms for delivery of measured doses ( <a href="#">A01K 5/0233</a> takes precedence)}
1/10	. Feed racks, {e.g. associated with enclosures or troughs} (devices for impeding movement of animals <a href="#">A01K 15/04</a> )	5/0283	. . . {by weight}
1/105	. . {Movable feed barriers, slides or fences}	5/0291	. . {with timing mechanisms, e.g. pet feeders}
1/12	. Milking stations (devices for milking <a href="#">A01J 1/00</a> - <a href="#">A01J 9/00</a> )	<b>7/00</b>	<b>Watering equipment for stock or game</b>
1/123	. . {Mobile milking parlours}	7/005	. {Drinking bowls with anti-splash or anti-spilling features}
1/126	. . {Carousels}	7/02	. Automatic devices, {e.g. actuated by weight of water; Medication dispensers} (construction of valves <a href="#">F16K</a> )
<b>3/00</b>	<b>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 <a href="#">E04H 17/00</a>; electric circuits for fences <a href="#">H05C</a>)</b>	7/022	. . {Pumps actuated by the drinking animal}
3/002	. {Grids for preventing cattle from straying}	7/025	. . {Water tanks}
3/005	. {Electrified wire fencing (circuits <a href="#">H05C</a> )}	7/027	. . {Drinking equipment with water heaters, coolers or means for preventing freezing}
2003/007	. {Fencing and guiding systems for amphibia}	7/04	. . actuated by float
<b>5/00</b>	<b>Feeding devices for stock or game (<a href="#">A01K 1/10</a> takes precedence; for poultry <a href="#">A01K 39/00</a>) {Feeding wagons; Feeding stacks}</b>	7/06	. . actuated by the animal {through valve control (for poultry <a href="#">A01K 39/0213</a> )}
5/001	. {Fodder distributors with mixer or shredder (adaptations of cutting machine <a href="#">A01F 29/00</a> )}	<b>9/00</b>	<b>Sucking apparatus for young stock; Devices for mixing solid food with liquids}</b>
5/002	. . {with mixing or shredding element rotating on horizontal axis}	9/005	. {Teats or nipples (teats for feeding bottles for humans <a href="#">A61J 11/00</a> )}
5/004	. . {with mixing or shredding element rotating on vertical axis}	<b>11/00</b>	<b>Marking of animals (of poultry <a href="#">A01K 35/00</a> ; of fish <a href="#">A01K 61/90</a>; lead-sealing pliers <a href="#">B25B</a>)</b>
5/005	. . {where fodder, e.g. bales, is conveyed by conveyor or slide to mixing or shredding elements on transversal and horizontal axes}	11/001	. {Ear-tags}
5/007	. . {with mixing or shredding area contained inside an endless chain or belt conveyor}	11/002	. . {Pliers specially adapted for fixing ear-tags to ears}
5/008	. {Feed bags (nose-bags for oats <a href="#">B68B 5/00</a> )}	11/003	. . {with means for taking tissue samples, e.g. for DNA analysis}
5/01	. Feed troughs; Feed pails {( <a href="#">A01K 1/10</a> takes precedence)}	11/004	. . {with electronic identification means, e.g. transponders}
5/0107	. . {Transportable fodder pails or troughs}	11/005	. {Branding or tattooing devices for animals}
5/0114	. . {Pet food dispensers; Pet food trays (time-controlled <a href="#">A01K 5/0291</a> )}	11/006	. {Automatic identification systems for animals, e.g. electronic devices, transponders for animals (identification systems for access to feeding pens <a href="#">A01K 1/0209</a> ; ear tags with electronic identification means <a href="#">A01K 11/004</a> )}
5/0121	. . . {Disposable pet feeders}	11/007	. . {Boluses}
		11/008	. . {incorporating GPS}

<b>13/00</b>	<b>Devices for grooming or caring of animals, e.g. curry-combs (scissors <a href="#">B26B</a>); Fetlock rings (bandages, poultices <a href="#">A61D</a>); Tail-holders (as part of the harness <a href="#">B68B 5/04</a>); Devices for preventing crib-biting; Washing devices (milking machine accessories for treatment of udders or teats <a href="#">A01J 7/04</a>; for medical purposes <a href="#">A61D 11/00</a>); Protection against weather conditions or insects</b>	<b>23/005</b>	<b>. {Manure or urine collecting devices used independently from the animal, i.e. not worn by the animal but operated by a person}</b>
13/001	. {Washing, cleaning, or drying devices (for veterinary purposes <a href="#">A61D 7/00</a> , <a href="#">A61D 11/00</a> )}	<b>25/00</b>	<b>Muzzles</b>
13/002	. {Curry-combs; Shearing sheep chemically (shearing sheep <a href="#">B26B 19/24</a> )}	<b>27/00</b>	<b>Leads or collars, e.g. for dogs (devices specially adapted or mounted for storing and repeatedly paying-out and re-storing lengths of material <a href="#">B65H 75/34</a>)</b>
13/003	. {Devices for applying insecticides or medication ( <a href="#">A01K 27/005</a> takes precedence; for veterinary purposes <a href="#">A61D</a> )}	27/001	. {Collars}
13/004	. {Rubbing-posts}	27/002	. {Harnesses}
13/005	. {Tail-holders}	27/003	. {Leads, leashes}
13/006	. {Protective coverings (shoeing of animals <a href="#">A01L</a> ; for veterinary purposes <a href="#">A61D</a> )}	27/004	. . {Retractable leashes}
13/007	. . {Leg, hoof or foot protectors}	27/005	. {Quick-couplings, safety-couplings or shock-absorbing devices between leash and collar}
13/008	. . {Horse blankets}	27/006	. {with light-emitting or ornamental devices}
<b>14/00</b>	<b>Removing the fleece from live sheep or similar animals (hand-held cutting tools <a href="#">B26B</a>)</b>	27/007	. {with insecticide-dispensing means}
<b>15/00</b>	<b>Devices for taming animals, e.g. nose-rings, hobbles; Devices for overturning animals in general; Training equipment; Covering boxes ({animal holding devices <a href="#">A01K 1/0613</a>}; devices for veterinary purposes <a href="#">A61D 3/00</a>)</b>	27/008	. {with pockets or similar for carrying accessories}
15/003	. {Nose-rings; Fastening tools therefor; Catching or driving equipment}	27/009	. {with electric-shock, sound, magnetic- or radio-waves emitting devices}
15/006	. {Devices for impeding passage of animals under fences, preventing butting or the like}	<b>29/00</b>	<b>Other apparatus for animal husbandry {(detecting birth of animals <a href="#">A61D 17/00</a>)}</b>
15/02	. Training or exercise equipment ( <a href="#">A01K 15/04</a> takes precedence); {Electric shock devices (circuits therefor <a href="#">H03K 3/537</a> ); Toys, e.g. for pets}	29/005	. {Monitoring or measuring activity, e.g. detecting heat or mating}
15/021	. . {Electronic training devices specially adapted for dogs or cats}	<b>Aviculture; Testing, cleaning, stamping or grading eggs</b>	
15/022	. . . {Anti-barking devices}	<b>31/00</b>	<b>Housing birds</b>
15/023	. . . {Anti-evasion devices}	31/002	. {Poultry cages, e.g. transport boxes (poultry transport <a href="#">A01K 45/005</a> )}
15/024	. . {Scratching devices, e.g. for cats}	31/005	. . {Battery breeding cages, with or without auxiliary features, e.g. feeding, watering, demanuring, heating, ventilation}
15/025	. . {Toys, e.g. for chewing}	31/007	. . {Floors (for stables <a href="#">A01K 1/015</a> )}
15/026	. . . {Chewable toys, e.g. for dental care of pets}	31/02	. Door appliances; Automatic door-openers ({laying-nests <a href="#">A01K 31/16</a> }; counters for specific applications <a href="#">G07C 9/00</a> )
15/027	. . {Exercising equipment, e.g. tread mills, carousels (equipment for racing or riding sports events <a href="#">A63K</a> )}	31/04	. Dropping-boards; Devices for removing excrement
15/028	. . {Cow trainers}	31/06	. Cages{, e.g. for singing birds (for poultry <a href="#">A01K 31/002</a> )}
15/029	. . {Electric or similar shock devices, e.g. prods (circuits therefor <a href="#">H03K 3/537</a> )}	31/07	. . Transportable cages ( <a href="#">A01K 31/08</a> takes precedence) ; Travelling cages for pigeons; Opening or closing of cages}
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 <a href="#">A01K 15/006</a> )}	31/08	. . Collapsible cages
<b>17/00</b>	<b>Dehorner; Horn trainers</b>	31/10	. Doors; Trap-doors {(for laying-nests <a href="#">A01K 31/16</a> )}
<b>19/00</b>	<b>Weaning apparatus</b>	31/12	. Perches {for poultry or birds, e.g. roosts}
<b>21/00</b>	<b>Devices for assisting or preventing mating (covering boxes <a href="#">A01K 15/00</a>)</b>	31/14	. Nest-boxes{, e.g. for singing birds or the like}
<b>23/00</b>	<b>Manure or urine pouches {(picking up dog excrement from the ground <a href="#">E01H 1/1206</a>)}</b>	31/16	. . Laying-nests for poultry; Egg collecting {(nest floors <a href="#">A01K 31/007</a> )}
		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 <a href="#">A01K 31/005</a> )}
		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 <a href="#">A01K 1/0047</a> )}
		31/24	. Dovecots; Pigeon lofts

- 33/00** Nest-eggs
- 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 appliances for poultry or other birds {([A01K 31/005](#), [A01K 31/06](#), [A01K 31/17](#) take precedence)}
- 39/01 . Feeding devices, {e.g. chainfeeders} ([A01K 39/04](#) takes precedence; {panfeeding systems, feeding pans [A01K 39/0125](#)})
- 39/0106 . . {for solid feed, e.g. grit-cake holders (licking-stone holders for stock or game [A01K 5/015](#))}
- 39/0113 . . {with means to prevent other animals or insects, e.g. squirrels or ants, from eating also}
- 39/012 . . filling automatically{, e.g. by gravity from a reserve}
- 39/0125 . . . {Panfeeding systems; Feeding pans therefor}
- 39/014 . . Feed troughs; Feed throwers
- 39/02 . Drinking appliances ([A01K 39/04](#) takes precedence; construction of valves [F16K](#))
- 39/0206 . . {Drinkers especially adapted for feeding hummingbirds}
- 39/0213 . . {Nipple drinkers}
- 39/022 . . with weight-controlled supply
- 39/024 . . with float-controlled supply
- 39/026 . . kept filled to constant level from incorporated storage
- 39/04 . Combined feeding and drinking appliances{, e.g. also for batteries}
- 39/06 . Cramming appliances{, e.g. helical force-feeders}
- 41/00** Incubators for poultry
- 41/02 . Heating arrangements
- 41/023 . . {Devices for regulating temperature}
- 41/026 . . {Heating with water}
- 41/04 . Controlling humidity in incubators
- 41/06 . Egg-turning appliances for incubators
- 41/065 . . {Egg drawers}
- 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}
- 43/005 . {Cleaning, washing of eggs}
- 43/04 . Grading eggs
- 43/06 . . according to size
- 43/08 . . according to weight (sorting according to weight in general [B07C 5/16](#))
- 43/10 . . Grading and stamping
- 45/00** Other aviculture appliances, e.g. devices for determining whether a bird is about to lay
- 45/002 . {Bird baths or showers}
- 45/005 . {Harvesting or transport of poultry}
- 45/007 . {Injecting or otherwise treating hatching eggs}

**Apiculture** {(rearing insects in general [A01K 67/00](#))}

- 47/00** Beehives
- 47/02 . Construction or arrangement of frames for honeycombs
- 47/04 . Artificial honeycombs

- 47/06 . Other details of beehives, e.g. ventilating devices, entrances to hives, guards, partitions, bee escapes
- 49/00** Rearing-boxes; Queen transporting or introducing cages
- 51/00** Appliances for treating beehives or parts thereof, e.g. for cleaning or disinfecting
- 53/00** Feeding or drinking appliances for bees
- 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](#))
- 57/00** Appliances for providing, preventing or catching swarms; Drone-catching devices
- 59/00** Honey collection
- 59/02 . Devices for uncapping honeycombs
- 59/04 . Honey strainers{; Strainers with centrifuges or presses}
- 59/06 . Devices for extracting wax

**Pisciculture; Aquaria; Terraria**

- 61/00** Culture of aquatic animals (receptacles for live fish, e.g. aquaria, [A01K 63/00](#))

**WARNING**

Group [A01K 61/00](#) is impacted by reclassification into groups [A01K 61/00](#), [A01K 61/10](#), [A01K 61/13](#), [A01K 61/20](#), [A01K 61/30](#), [A01K 61/40](#), [A01K 61/50](#), [A01K 61/51](#), [A01K 61/53](#), [A01K 61/60](#), [A01K 61/65](#), [A01K 61/80](#), [A01K 61/85](#), [A01K 61/90](#), and [A01K 61/95](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 61/10 . of fish

**WARNING**

Groups [A01K 61/10](#) – [A01K 61/13](#) are incomplete pending reclassification of documents from group [A01K 61/00](#).

Groups [A01K 61/00](#) and [A01K 61/10](#) – [A01K 61/13](#) should be considered in order to perform a complete search.

- 61/13 . . Prevention or treatment of fish diseases
- 61/17 . . Hatching, e.g. incubators
- 61/20 . of zooplankton, e.g. water fleas or Rotatoria

**WARNING**

Group [A01K 61/20](#) is incomplete pending reclassification of documents from group [A01K 61/00](#).

Groups [A01K 61/00](#) and [A01K 61/20](#) should be considered in order to perform a complete search.

- 61/30 . . of sponges, sea urchins or sea cucumbers

**WARNING**

Group [A01K 61/30](#) is incomplete pending reclassification of documents from group [A01K 61/00](#).

Groups [A01K 61/00](#) and [A01K 61/30](#) should be considered in order to perform a complete search.

- 61/40 . . of annelids, e.g. lugworms or Eunice

**WARNING**

Group [A01K 61/40](#) is incomplete pending reclassification of documents from group [A01K 61/00](#).

Groups [A01K 61/00](#) and [A01K 61/40](#) should be considered in order to perform a complete search.

- 61/50 . . of shellfish ([A01K 61/30](#), [A01K 61/40](#) take precedence)

**WARNING**

Groups [A01K 61/50](#) – [A01K 61/53](#) are incomplete pending reclassification of documents from group [A01K 61/00](#).

Groups [A01K 61/00](#) and [A01K 61/50](#) – [A01K 61/53](#) should be considered in order to perform a complete search.

- 61/51 . . of gastropods, e.g. abalones or turban snails

- 61/53 . . . Baskets therefor

- 61/54 . . of bivalves, e.g. oysters or mussels

**WARNING**

Group [A01K 61/54](#) is impacted by reclassification of documents into groups [A01K 61/55](#) – [A01K 61/57](#).

Groups [A01K 61/54](#) and [A01K 61/55](#) – [A01K 61/57](#) should be considered in order to perform a complete search.

- 61/55 . . . Baskets therefor

**WARNING**

Group [A01K 61/55](#) is incomplete pending reclassification of documents from group [A01K 61/54](#).

Groups [A01K 61/54](#) and [A01K 61/55](#) should be considered in order to perform a complete search.

- 61/56 . . . for pearl production

**WARNING**

Group [A01K 61/56](#) is incomplete pending reclassification of documents from group [A01K 61/54](#).

Groups [A01K 61/54](#) and [A01K 61/56](#) should be considered in order to perform a complete search.

- 61/57 . . . . Pearl seeds

**WARNING**

Group [A01K 61/57](#) is incomplete pending reclassification of documents from group [A01K 61/54](#).

Groups [A01K 61/54](#) and [A01K 61/57](#) should be considered in order to perform a complete search.

- 61/59 . . of crustaceans, e.g. lobsters or shrimps

- 61/60 . . Floating cultivation devices, e.g. rafts or floating fish-farms

**WARNING**

Group [A01K 61/60](#) is incomplete pending reclassification of documents from group [A01K 61/00](#). Group [A01K 61/60](#) is also impacted by reclassification into groups [A01K 61/65](#).

Groups [A01K 61/60](#), [A01K 61/00](#) and [A01K 61/65](#) should be considered in order to perform a complete search.

- 61/65 . . Connecting or mooring devices therefor

**WARNING**

Group [A01K 61/65](#) is incomplete pending reclassification of documents from groups [A01K 61/00](#) and [A01K 61/60](#).

Groups [A01K 61/65](#), [A01K 61/00](#), and [A01K 61/60](#) should be considered in order to perform a complete search.

- 61/70 . . Artificial fishing banks or reefs

**WARNING**

Group [A01K 61/70](#) is impacted by reclassification into groups [A01K 61/72](#), [A01K 61/73](#), [A01K 61/75](#), [A01K 61/77](#), and [A01K 61/78](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 61/72 . . made of tyres

**WARNING**

Group [A01K 61/72](#) is incomplete pending reclassification of documents from group [A01K 61/70](#).

Groups [A01K 61/70](#) and [A01K 61/72](#) should be considered in order to perform a complete search.

- 61/73 . . assembled of components ([A01K 61/72](#) takes precedence)

**WARNING**

Group [A01K 61/73](#) is incomplete pending reclassification of documents from group [A01K 61/70](#).

Groups [A01K 61/70](#) and [A01K 61/73](#) should be considered in order to perform a complete search.



- 61/75 . . floating ([A01K 61/72](#) takes precedence)

**WARNING**

Group [A01K 61/75](#) is incomplete pending reclassification of documents from group [A01K 61/70](#).

Groups [A01K 61/70](#) and [A01K 61/75](#) should be considered in order to perform a complete search.

- 61/77 . . of monolithic form, e.g. blocks

**WARNING**

Group [A01K 61/77](#) is incomplete pending reclassification of documents from group [A01K 61/70](#).

Groups [A01K 61/70](#) and [A01K 61/77](#) should be considered in order to perform a complete search.

- 61/78 . . Arrangements for sinking or mooring thereof

**WARNING**

Group [A01K 61/78](#) is incomplete pending reclassification of documents from group [A01K 61/70](#).

Groups [A01K 61/70](#) and [A01K 61/78](#) should be considered in order to perform a complete search.

- 61/80 . Feeding devices

**WARNING**

Group [A01K 61/80](#) is incomplete pending reclassification of documents from group [A01K 61/00](#).

Groups [A01K 61/00](#) and [A01K 61/80](#) should be considered in order to perform a complete search.

- 61/85 . . for use with aquaria

**WARNING**

Group [A01K 61/85](#) is incomplete pending reclassification of documents from group [A01K 61/00](#).

Groups [A01K 61/00](#) and [A01K 61/85](#) should be considered in order to perform a complete search.

- 61/90 . Sorting, grading, counting or marking live aquatic animals, e.g. sex determination

**WARNING**

Group [A01K 61/90](#) is impacted by reclassification of documents into group [A01K 61/95](#).

Groups [A01K 61/90](#) and [A01K 61/95](#) should be considered in order to perform a complete search.

- 61/95 . . specially adapted for fish

**WARNING**

Group [A01K 61/95](#) is incomplete pending reclassification of documents from group [A01K 61/90](#).

Groups [A01K 61/90](#) and [A01K 61/95](#) should be considered in order to perform a complete search.

- 63/00 Receptacles for live fish, e.g. aquaria (keepnets or other containers for keeping captured fish [A01K 97/20](#)); Terraria**

**WARNING**

Group [A01K 63/00](#) is impacted by reclassification into group [A01K 63/10](#).

Groups [A01K 63/00](#) and [A01K 63/10](#) should be considered in order to perform a complete search.

- 63/003 . {Aquaria; Terraria ([A01K 63/04](#), [A01K 63/06](#) take precedence)}
- 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 {, e.g. filters, water pumps} ({cleaning receptacles [A01K 63/10](#);} filters in general [B01D](#); water treatment in general [C02F](#))
- 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 (heating, {cooling} or lighting apparatus per se [F21](#), [H01](#), [H05B](#))
- 63/065 . . {Heating or cooling devices}
- 63/10 . Cleaning bottoms or walls of ponds or receptacles

**WARNING**

Group [A01K 63/10](#) is incomplete pending reclassification of documents from group [A01K 63/00](#).

Groups [A01K 63/00](#) and [A01K 63/10](#) should be considered in order to perform a complete search.

- 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 (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.

- 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}

- 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 (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
- 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 (for angling [A01K 93/00](#))
- 75/06 . . Sinkers (for angling [A01K 95/00](#))

**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 (electric circuits therefor [H05C](#)); {Attracting or stunning fish; Scaring sharks}

**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](#))****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 (fly tying devices [A01K 97/26](#))
- 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](#))

##### **WARNING**

Group [A01K 89/00](#) is impacted by reclassification into group [A01K 89/004](#).

Groups [A01K 89/00](#) and [A01K 89/004](#) should be considered in order to perform a complete search.

- 89/003 . {Devices for transferring line to a reel}
- 89/004 . {Alternate right or left side drives}

##### **WARNING**

Group [A01K 89/004](#) is incomplete pending reclassification of documents from group [A01K 89/00](#).

Groups [A01K 89/00](#) and [A01K 89/004](#) should be considered in order to perform a complete search.

- 89/006 . {Hand crank features}
- 89/009 . . {Collapsible or extensible}

##### **WARNING**

Group [A01K 89/009](#) is incomplete pending reclassification of documents from group [A01K 89/006](#).

Groups [A01K 89/006](#) and [A01K 89/009](#) should be considered in order to perform a complete search.

- 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)

##### **WARNING**

Group [A01K 89/01](#) is impacted by reclassification into groups [A01K 89/0106](#), [A01K 89/01121](#), [A01K 89/011221](#), [A01K 89/011222](#), [A01K 89/011223](#), [A01K 89/01123](#), [A01K 89/01124](#), [A01K 89/01125](#), [A01K 89/01126](#), [A01K 89/01127](#), [A01K 89/0113](#), [A01K 89/0122](#), [A01K 89/0123](#), [A01K 89/0124](#), [A01K 89/0125](#), and [A01K 89/0126](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 89/0102 . . {with a closed face}

##### **WARNING**

Group [A01K 89/0102](#) is impacted by reclassification into groups [A01K 89/01025](#), [A01K 89/01026](#), and [A01K 89/01029](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 89/01025 . . . {with line snubber shifted by a remote actuator}

##### **WARNING**

Groups [A01K 89/01025](#), [A01K 89/01026](#), and [A01K 89/01029](#) are incomplete pending reclassification of documents from group [A01K 89/0102](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 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}

##### **WARNING**

Group [A01K 89/0106](#), [A01K 89/01121](#), [A01K 89/011221](#), [A01K 89/011222](#), [A01K 89/011223](#), [A01K 89/01123](#), [A01K 89/01124](#), [A01K 89/01125](#), [A01K 89/01126](#), [A01K 89/01127](#), [A01K 89/0113](#), [A01K 89/0122](#), [A01K 89/0123](#), [A01K 89/0124](#), [A01K 89/0125](#), and [A01K 89/0126](#) are incomplete pending reclassification of documents from group [A01K 89/01](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 89/0108 . . {Pick-up details}

##### **WARNING**

Group [A01K 89/0108](#) is impacted by reclassification into group [A01K 89/01081](#).

Groups [A01K 89/0108](#) and [A01K 89/01081](#) should be considered in order to perform a complete search.

- 89/01081 . . . {Guiding members on rotor axially rearward of spool}

##### **WARNING**

Groups [A01K 89/01081](#), [A01K 89/01082](#), [A01K 89/01083](#), [A01K 89/01084](#), [A01K 89/01085](#), [A01K 89/01086](#), [A01K 89/01087](#), and [A01K 89/01088](#) are incomplete pending reclassification of documents from group [A01K 89/0108](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 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)}

**WARNING**

Groups [A01K 89/01081](#), [A01K 89/01082](#), [A01K 89/01083](#), [A01K 89/01084](#), [A01K 89/01085](#), [A01K 89/01086](#), [A01K 89/01087](#), and [A01K 89/01088](#) are incomplete pending reclassification of documents from group [A01K 89/0108](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 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}

**WARNING**

Groups [A01K 89/0106](#), [A01K 89/01121](#), [A01K 89/011221](#), [A01K 89/011222](#), [A01K 89/011223](#), [A01K 89/01123](#), [A01K 89/01124](#), [A01K 89/01125](#), [A01K 89/01126](#), [A01K 89/01127](#), [A01K 89/0113](#), [A01K 89/0122](#), [A01K 89/0123](#), [A01K 89/0124](#), [A01K 89/0125](#) and [A01K 89/0126](#) are incomplete pending reclassification of documents from group [A01K 89/01](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 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}

**WARNING**

Groups [A01K 89/0106](#), [A01K 89/01121](#), [A01K 89/011221](#), [A01K 89/011222](#), [A01K 89/011223](#), [A01K 89/01123](#), [A01K 89/01124](#), [A01K 89/01125](#), [A01K 89/01126](#), [A01K 89/01127](#), [A01K 89/0113](#), [A01K 89/0122](#), [A01K 89/0123](#), [A01K 89/0124](#), [A01K 89/0125](#), and [A01K 89/0126](#) are incomplete pending reclassification of documents from group [A01K 89/01](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 89/0114 . . {Reciprocating mechanisms}

**WARNING**

Group [A01K 89/0114](#) is impacted by reclassification into groups [A01K 89/01141](#), [A01K 89/01142](#), and [A01K 89/01143](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 89/01141 . . . {including eccentric cams reciprocating the spool}

**WARNING**

Groups [A01K 89/01141](#), [A01K 89/01142](#), and [A01K 89/01143](#) are incomplete pending reclassification of documents from group [A01K 89/0114](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 89/01142 . . . {for reciprocating the guiding member}

**WARNING**

Groups [A01K 89/01141](#), [A01K 89/01142](#), and [A01K 89/01143](#) are incomplete pending reclassification of documents from group [A01K 89/0114](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 89/01143 . . . . {Reversely threaded screws}
- 89/0117 . . {Anti-reverse mechanisms}

**WARNING**

Group [A01K 89/0117](#) is impacted by reclassification into group [A01K 89/0118](#).

Groups [A01K 89/0117](#) and [A01K 89/0118](#) should be considered in order to perform a complete search.

- 89/0118 . . . {defining home position of reel part}

**WARNING**

Group s [A01K 89/0118](#) is incomplete pending reclassification of documents from group [A01K 89/0117](#).

Group s [A01K 89/0117](#) and [A01K 89/0118](#) should be considered in order to perform a complete search.

- 89/012 . . . motor-driven

**WARNING**

Group [A01K 89/012](#) is impacted by reclassification into group [A01K 89/0121](#).

Groups [A01K 89/012](#) and [A01K 89/0121](#) should be considered in order to perform a complete search.

89/0121 . . . {Spring motors}

#### **WARNING**

Group [A01K 89/0121](#) is incomplete pending reclassification of documents from group [A01K 89/012](#)

Groups [A01K 89/012](#) and [A01K 89/0121](#) should be considered in order to perform a complete search.

89/0122 . . {with unwinding indicators, e.g. bell or flashing light}

#### **WARNING**

Groups [A01K 89/0106](#), [A01K 89/01121](#), [A01K 89/011221](#), [A01K 89/011222](#), [A01K 89/011223](#), [A01K 89/01123](#), [A01K 89/01124](#), [A01K 89/01125](#), [A01K 89/01126](#), [A01K 89/01127](#), [A01K 89/0113](#), [A01K 89/0122](#), [A01K 89/0123](#), [A01K 89/0124](#), [A01K 89/0125](#) and [A01K 89/0126](#) are incomplete pending reclassification of documents from group [A01K 89/01](#).

All groups listed in this Warning should be considered in order to perform a complete search.

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}

#### **WARNING**

Groups [A01K 89/0106](#), [A01K 89/01121](#), [A01K 89/011221](#), [A01K 89/011222](#), [A01K 89/011223](#), [A01K 89/01123](#), [A01K 89/01124](#), [A01K 89/01125](#), [A01K 89/01126](#), [A01K 89/01127](#), [A01K 89/0113](#), [A01K 89/0122](#), [A01K 89/0123](#), [A01K 89/0124](#), [A01K 89/0125](#) and [A01K 89/0126](#) are incomplete pending reclassification of documents from group [A01K 89/01](#).

All groups listed in this Warning should be considered in order to perform a complete search.

89/015 . . with {a} rotary drum {, i.e. with a rotating spool}  
([A01K 89/033](#) takes precedence)

#### **WARNING**

Group [A01K 89/015](#) is impacted by reclassification into groups [A01K 89/0175](#), [A01K 89/0176](#), [A01K 89/0178](#), [A01K 89/0179](#), [A01K 89/018](#), [A01K 89/0181](#), [A01K 89/0182](#), [A01K 89/0183](#), [A01K 89/0184](#), [A01K 89/0185](#), [A01K 89/0186](#), [A01K 89/0187](#), [A01K 89/0188](#), [A01K 89/0189](#), [A01K 89/01901](#), [A01K 89/01902](#), [A01K 89/01903](#), [A01K 89/01904](#), [A01K 89/01905](#), [A01K 89/01906](#), [A01K 89/01907](#), [A01K 89/01908](#), [A01K 89/01909](#), [A01K 89/0191](#), [A01K 89/01911](#), [A01K 89/01912](#), [A01K 89/019125](#), [A01K 89/01913](#), [A01K 89/01914](#), [A01K 89/01915](#), [A01K 89/01916](#), [A01K 89/01917](#), [A01K 89/01918](#), [A01K 89/01919](#), [A01K 89/0192](#), [A01K 89/01921](#), [A01K 89/01922](#), [A01K 89/01923](#), [A01K 89/01924](#), [A01K 89/01925](#), [A01K 89/01928](#), [A01K 89/01929](#), [A01K 89/0193](#), and [A01K 89/01931](#).

All groups listed in this Warning should be considered in order to perform a complete search.

89/0155 . . . Antibacklash devices

#### **WARNING**

Group [A01K 89/0155](#) is impacted by reclassification into groups [A01K 89/01556](#) and [A01K 89/01557](#).

Groups [A01K 89/0155](#), [A01K 89/01556](#) and [A01K 89/01557](#) should be considered in order to perform a complete search.

89/01555 . . . {using magnets}

89/01556 . . . {Line tension responsive actuators}

#### **WARNING**

Groups [A01K 89/01556](#) and [A01K 89/01557](#) are incomplete pending reclassification of documents from group [A01K 89/0155](#).

Groups [A01K 89/0155](#), [A01K 89/01556](#) and [A01K 89/01557](#) should be considered in order to perform a complete search.

89/01557 . . . {Centrifugal}

#### **WARNING**

Groups [A01K 89/01556](#) and [A01K 89/01557](#) are incomplete pending reclassification of documents from group [A01K 89/0155](#).

Groups [A01K 89/0155](#), [A01K 89/01556](#) and [A01K 89/01557](#) should be considered in order to perform a complete search.

89/016 . . Fly reels {, i.e. with a stub shaft support}

#### **WARNING**

Group [A01K 89/016](#) is impacted by reclassification into group [A01K 89/0162](#).

Groups [A01K 89/016](#) and [A01K 89/0162](#) should be considered in order to perform a complete search.

89/0162 . . . {with a releasable latch to retain spool on shaft}

#### **WARNING**

Group [A01K 89/0162](#) is incomplete pending reclassification of documents from group [A01K 89/016](#).

Group s [A01K 89/016](#) and [A01K 89/0162](#) should be considered in order to perform a complete search.

89/0165 . . for trolling

89/017 . . motor-driven

#### **WARNING**

Group [A01K 89/017](#) is impacted by reclassification into groups [A01K 89/0171](#), [A01K 89/0172](#), [A01K 89/0173](#), and [A01K 89/0174](#).

All groups listed in this Warning should be considered in order to perform a complete search.

89/0171 . . . {Spring motors}

#### **WARNING**

Groups [A01K 89/0171](#), [A01K 89/0172](#), [A01K 89/0173](#), and [A01K 89/0174](#) are incomplete pending reclassification of documents from group [A01K 89/017](#).

All groups listed in this Warning should be considered in order to perform a complete search.

89/0172 . . . . {actuated in response to pull on line}

89/0173 . . . . {with independent manual drive}

89/0174 . . . . {with spring chargers}

89/0175 . . {Axial unwinding}

#### **WARNING**

Groups [A01K 89/0175](#), [A01K 89/0176](#), [A01K 89/0178](#), [A01K 89/0179](#), [A01K 89/018](#), [A01K 89/0181](#), [A01K 89/0182](#), [A01K 89/0183](#), [A01K 89/0184](#), [A01K 89/0185](#), [A01K 89/0186](#), [A01K 89/0187](#), [A01K 89/0188](#), [A01K 89/0189](#), [A01K 89/01901](#), [A01K 89/01902](#), [A01K 89/01903](#), [A01K 89/01904](#), [A01K 89/01905](#), [A01K 89/01906](#), [A01K 89/01907](#), [A01K 89/01908](#), [A01K 89/01909](#), [A01K 89/0191](#), [A01K 89/01911](#), [A01K 89/01912](#), [A01K 89/019125](#), [A01K 89/01913](#), [A01K 89/01914](#), [A01K 89/01915](#), [A01K 89/01916](#), [A01K 89/01917](#), [A01K 89/01918](#), [A01K 89/01919](#), [A01K 89/0192](#), [A01K 89/01921](#), [A01K 89/01922](#), [A01K 89/01923](#), [A01K 89/01924](#), [A01K 89/01925](#), [A01K 89/01928](#), [A01K 89/01929](#), [A01K 89/0193](#), [A01K 89/01931](#) are incomplete pending reclassification of documents from group [A01K 89/015](#).

All groups listed in this Warning should be considered in order to perform a complete search.

89/0176 . . . {with guide shiftable between wind and unwind positions}

89/0178 . . {with unwinding indicators, e.g. a bell or a flashing light}

#### **WARNING**

Groups [A01K 89/0175](#), [A01K 89/0176](#), [A01K 89/0178](#), [A01K 89/0179](#), [A01K 89/018](#), [A01K 89/0181](#), [A01K 89/0182](#), [A01K 89/0183](#), [A01K 89/0184](#), [A01K 89/0185](#), [A01K 89/0186](#), [A01K 89/0187](#), [A01K 89/0188](#), [A01K 89/0189](#), [A01K 89/01901](#), [A01K 89/01902](#), [A01K 89/01903](#), [A01K 89/01904](#), [A01K 89/01905](#), [A01K 89/01906](#), [A01K 89/01907](#), [A01K 89/01908](#), [A01K 89/01909](#), [A01K 89/0191](#), [A01K 89/01911](#), [A01K 89/01912](#), [A01K 89/019125](#), [A01K 89/01913](#), [A01K 89/01914](#), [A01K 89/01915](#), [A01K 89/01916](#), [A01K 89/01917](#), [A01K 89/01918](#), [A01K 89/01919](#), [A01K 89/0192](#), [A01K 89/01921](#), [A01K 89/01922](#), [A01K 89/01923](#), [A01K 89/01924](#), [A01K 89/01925](#), [A01K 89/01928](#), [A01K 89/01929](#), [A01K 89/0193](#), [A01K 89/01931](#) are incomplete pending reclassification of documents from group [A01K 89/015](#).

All groups listed in this Warning should be considered in order to perform a complete search.

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}

**WARNING**

Groups [A01K 89/0175](#), [A01K 89/0176](#), [A01K 89/0178](#), [A01K 89/0179](#), [A01K 89/018](#), [A01K 89/0181](#), [A01K 89/0182](#), [A01K 89/0183](#), [A01K 89/0184](#), [A01K 89/0185](#), [A01K 89/0186](#), [A01K 89/0187](#), [A01K 89/0188](#), [A01K 89/0189](#), [A01K 89/0190](#), [A01K 89/01902](#), [A01K 89/01903](#), [A01K 89/01904](#), [A01K 89/01905](#), [A01K 89/01906](#), [A01K 89/01907](#), [A01K 89/01908](#), [A01K 89/01909](#), [A01K 89/0191](#), [A01K 89/01911](#), [A01K 89/01912](#), [A01K 89/019125](#), [A01K 89/01913](#), [A01K 89/01914](#), [A01K 89/01915](#), [A01K 89/01916](#), [A01K 89/01917](#), [A01K 89/01918](#), [A01K 89/01919](#), [A01K 89/0192](#), [A01K 89/01921](#), [A01K 89/01922](#), [A01K 89/01923](#), [A01K 89/01924](#), [A01K 89/01925](#), [A01K 89/01928](#), [A01K 89/01929](#), [A01K 89/0193](#), [A01K 89/01931](#) are incomplete pending reclassification of documents from group [A01K 89/015](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 89/0183 . . {Drive mechanism details}

**WARNING**

Groups [A01K 89/0175](#), [A01K 89/0176](#), [A01K 89/0178](#), [A01K 89/0179](#), [A01K 89/018](#), [A01K 89/0181](#), [A01K 89/0182](#), [A01K 89/0183](#), [A01K 89/0184](#), [A01K 89/0185](#), [A01K 89/0186](#), [A01K 89/0187](#), [A01K 89/0188](#), [A01K 89/0189](#), [A01K 89/0190](#), [A01K 89/01902](#), [A01K 89/01903](#), [A01K 89/01904](#), [A01K 89/01905](#), [A01K 89/01906](#), [A01K 89/01907](#), [A01K 89/01908](#), [A01K 89/01909](#), [A01K 89/0191](#), [A01K 89/01911](#), [A01K 89/01912](#), [A01K 89/019125](#), [A01K 89/01913](#), [A01K 89/01914](#), [A01K 89/01915](#), [A01K 89/01916](#), [A01K 89/01917](#), [A01K 89/01918](#), [A01K 89/01919](#), [A01K 89/0192](#), [A01K 89/01921](#), [A01K 89/01922](#), [A01K 89/01923](#), [A01K 89/01924](#), [A01K 89/01925](#), [A01K 89/01928](#), [A01K 89/01929](#), [A01K 89/0193](#), [A01K 89/01931](#) are incomplete pending reclassification of documents from group [A01K 89/015](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 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}

**WARNING**

Groups [A01K 89/0175](#), [A01K 89/0176](#), [A01K 89/0178](#), [A01K 89/0179](#), [A01K 89/018](#), [A01K 89/0181](#), [A01K 89/0182](#), [A01K 89/0183](#), [A01K 89/0184](#), [A01K 89/0185](#), [A01K 89/0186](#), [A01K 89/0187](#), [A01K 89/0188](#), [A01K 89/0189](#), [A01K 89/0190](#), [A01K 89/01902](#), [A01K 89/01903](#), [A01K 89/01904](#), [A01K 89/01905](#), [A01K 89/01906](#), [A01K 89/01907](#), [A01K 89/01908](#), [A01K 89/01909](#), [A01K 89/0191](#), [A01K 89/01911](#), [A01K 89/01912](#), [A01K 89/019125](#), [A01K 89/01913](#), [A01K 89/01914](#), [A01K 89/01915](#), [A01K 89/01916](#), [A01K 89/01917](#), [A01K 89/01918](#), [A01K 89/01919](#), [A01K 89/0192](#), [A01K 89/01921](#), [A01K 89/01922](#), [A01K 89/01923](#), [A01K 89/01924](#), [A01K 89/01925](#), [A01K 89/01928](#), [A01K 89/01929](#), [A01K 89/0193](#), [A01K 89/01931](#) are incomplete pending reclassification of documents from group [A01K 89/015](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 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](#))}

**WARNING**

Groups [A01K 89/0175](#), [A01K 89/0176](#), [A01K 89/0178](#), [A01K 89/0179](#), [A01K 89/018](#), [A01K 89/0181](#), [A01K 89/0182](#), [A01K 89/0183](#), [A01K 89/0184](#), [A01K 89/0185](#), [A01K 89/0186](#), [A01K 89/0187](#), [A01K 89/0188](#), [A01K 89/0189](#), [A01K 89/01901](#), [A01K 89/01902](#), [A01K 89/01903](#), [A01K 89/01904](#), [A01K 89/01905](#), [A01K 89/01906](#), [A01K 89/01907](#), [A01K 89/01908](#), [A01K 89/01909](#), [A01K 89/0191](#), [A01K 89/01911](#), [A01K 89/01912](#), [A01K 89/019125](#), [A01K 89/01913](#), [A01K 89/01914](#), [A01K 89/01915](#), [A01K 89/01916](#), [A01K 89/01917](#), [A01K 89/01918](#), [A01K 89/01919](#), [A01K 89/0192](#), [A01K 89/01921](#), [A01K 89/01922](#), [A01K 89/01923](#), [A01K 89/01924](#), [A01K 89/01925](#), [A01K 89/01928](#), [A01K 89/01929](#), [A01K 89/0193](#), [A01K 89/01931](#) are incomplete pending reclassification of documents from group [A01K 89/015](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 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}

**WARNING**

Group [A01K 89/027](#) is impacted by reclassification into groups [A01K 89/028](#), [A01K 89/029](#), and [A01K 89/03](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 89/0275 . . . {with closed face}
- 89/028 . . . {Continuously applied (for closed face reels [A01K 89/0275](#))}

**WARNING**

Groups [A01K 89/028](#), [A01K 89/029](#), and [A01K 89/03](#) are incomplete pending reclassification of documents from group [A01K 89/027](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 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](#))}

**WARNING**

Group [A01K 89/033](#) is impacted by reclassification into groups [A01K 89/045](#), [A01K 89/046](#), [A01K 89/047](#), [A01K 89/048](#), [A01K 89/049](#), [A01K 89/05](#), [A01K 89/051](#), [A01K 89/052](#), [A01K 89/053](#), [A01K 89/054](#), [A01K 89/055](#), [A01K 89/056](#), [A01K 89/057](#), [A01K 89/058](#) and [A01K 89/059](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 89/045 . . . {Spool bearing brake}

**WARNING**

Groups [A01K 89/045](#), [A01K 89/046](#), [A01K 89/047](#), [A01K 89/048](#), [A01K 89/049](#), [A01K 89/05](#), [A01K 89/051](#), [A01K 89/052](#), [A01K 89/053](#), [A01K 89/054](#), [A01K 89/055](#), [A01K 89/056](#), [A01K 89/057](#), [A01K 89/058](#) and [A01K 89/059](#) are incomplete pending reclassification of documents from group [A01K 89/033](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 89/046 . . . {Manual pressure control}

**WARNING**

Groups [A01K 89/045](#), [A01K 89/046](#), [A01K 89/047](#), [A01K 89/048](#), [A01K 89/049](#), [A01K 89/05](#), [A01K 89/051](#), [A01K 89/052](#), [A01K 89/053](#), [A01K 89/054](#), [A01K 89/055](#), [A01K 89/056](#), [A01K 89/057](#), [A01K 89/058](#) and [A01K 89/059](#) are incomplete pending reclassification of documents from group [A01K 89/033](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 89/047 . . . . {Radially applied}
- 89/048 . . . . {Rolling contact}
- 89/049 . . . . {Separable attachments}
- 89/05 . . . {Brakes connected to the spool by one-way clutch}

**WARNING**

Groups [A01K 89/045](#), [A01K 89/046](#), [A01K 89/047](#), [A01K 89/048](#), [A01K 89/049](#), [A01K 89/05](#), [A01K 89/051](#), [A01K 89/052](#), [A01K 89/053](#), [A01K 89/054](#), [A01K 89/055](#), [A01K 89/056](#), [A01K 89/057](#), [A01K 89/058](#) and [A01K 89/059](#) are incomplete pending reclassification of documents from group [A01K 89/033](#).

All groups listed in this Warning should be considered in order to perform a complete search.



- 89/051 . . . {Adjustable pressure pawls, e.g. braking clickers}

**WARNING**

Groups [A01K 89/045](#), [A01K 89/046](#), [A01K 89/047](#), [A01K 89/048](#), [A01K 89/049](#), [A01K 89/05](#), [A01K 89/051](#), [A01K 89/052](#), [A01K 89/053](#), [A01K 89/054](#), [A01K 89/055](#), [A01K 89/056](#), [A01K 89/057](#), [A01K 89/058](#) and [A01K 89/059](#) are incomplete pending reclassification of documents from group [A01K 89/033](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 89/052 . . . {Positive}

**WARNING**

Groups [A01K 89/045](#), [A01K 89/046](#), [A01K 89/047](#), [A01K 89/048](#), [A01K 89/049](#), [A01K 89/05](#), [A01K 89/051](#), [A01K 89/052](#), [A01K 89/053](#), [A01K 89/054](#), [A01K 89/055](#), [A01K 89/056](#), [A01K 89/057](#), [A01K 89/058](#) and [A01K 89/059](#) are incomplete pending reclassification of documents from group [A01K 89/033](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 89/053 . . . . {One-way}  
89/054 . . . . {with disabler}  
89/055 . . . . {Rotation responsive}  
89/056 . . . {Radially engaged}

**WARNING**

Groups [A01K 89/045](#), [A01K 89/046](#), [A01K 89/047](#), [A01K 89/048](#), [A01K 89/049](#), [A01K 89/05](#), [A01K 89/051](#), [A01K 89/052](#), [A01K 89/053](#), [A01K 89/054](#), [A01K 89/055](#), [A01K 89/056](#), [A01K 89/057](#), [A01K 89/058](#) and [A01K 89/059](#) are incomplete pending reclassification of documents from group [A01K 89/033](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 89/057 . . . {Axially engaged}

**WARNING**

Groups [A01K 89/045](#), [A01K 89/046](#), [A01K 89/047](#), [A01K 89/048](#), [A01K 89/049](#), [A01K 89/05](#), [A01K 89/051](#), [A01K 89/052](#), [A01K 89/053](#), [A01K 89/054](#), [A01K 89/055](#), [A01K 89/056](#), [A01K 89/057](#), [A01K 89/058](#) and [A01K 89/059](#) are incomplete pending reclassification of documents from group [A01K 89/033](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 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

**WARNING**

Group [A01K 89/08](#) is impacted by reclassification into group [A01K 89/081](#).

Groups [A01K 89/08](#) and [A01K 89/081](#) should be considered in order to perform a complete search.

- 89/081 . . {Axial unwinding}

**WARNING**

Group [A01K 89/081](#) is incomplete pending reclassification of documents from group [A01K 89/08](#).

Groups [A01K 89/08](#) and [A01K 89/081](#) should be considered in order to perform a complete search.

**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 ([floats A01K 93/00](#))  
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, 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 (landing-nets, landing-spoons [A01K 77/00](#))**

- 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 {; [Dispensers \(feeding-stuffs for particular animals A23K 50/00\)](#)}  
97/045 . . {Preparation of bait; Ingredients}  
97/05 . . Containers for live bait kept in water, e.g. for minnows, 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, O<sub>2</sub>

#### **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 (Not used)**

- 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 (Not used)**

- 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