

**CPC****COOPERATIVE PATENT CLASSIFICATION****A01K****ANIMAL HUSBANDRY; CARE OF BIRDS, FISHES, INSECTS; FISHING; REARING OR BREEDING ANIMALS, NOT OTHERWISE PROVIDED FOR; NEW BREEDS OF ANIMALS****NOTE**

This subclass covers:

- equipment for the care, culture or rearing of all animals, or for obtaining their products, unless provided for elsewhere, e.g. milking [A01J](#), shoeing animals [A01L](#), veterinary devices [A61D](#), culture of animal cells [C12M](#), [C12N](#);
- methods of breeding animals or new animal breeds.

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

**A01K 1/00**

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

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

A01K 1/0114	...	{Litter boxes with screens for separating excrement from litter}
A01K 1/0117	...	{with conveying belts for removing excrement}
A01K 1/0121	...	{adapted to fit on conventional toilets}
A01K 1/0125	...	{Foldable or collapsible litter boxes}
A01K 1/0128	..	{by means of scrapers or the like moving continuously}
A01K 1/0132	..	{by means of scrapers or the like moving to-and-fro or step-by-step}
A01K 1/0135	..	{by means of conveyer belts}
A01K 1/0139	..	{by means of screw conveyers}
A01K 1/0142	..	{by means of a moving piston}
A01K 1/0146	..	{by means of manure-loaders, manure-ramps or manure-elevators associated with in-house removal systems ( <a href="#">independent manure-loaders A01C 3/04</a> )}
A01K 1/015	.	Floor coverings, e.g. bedding-down sheets; {Stable floors ( <a href="#">for poultry cages A01K 31/007</a> )}
A01K 1/0151	..	{Grids; Gratings; Slatted floors}
A01K 1/0152	..	{Litter}
A01K 1/0154	...	{comprising inorganic material}
A01K 1/0155	...	{comprising organic material}
A01K 1/0157	..	{Mats; Sheets}
A01K 1/0158	..	{Floor heating or cooling systems}
A01K 1/02	.	Pigsties; Dog-kennels; Rabbit-hutches or the like
A01K 1/0209	..	{Feeding pens for pigs or cattle}
A01K 1/0218	..	{Farrowing or weaning crates}
A01K 1/0227	..	{Battery cages for piglets}
A01K 1/0236	..	{Transport boxes, bags, cages, baskets, harnesses for animals; Fittings therefor ( <a href="#">for poultry A01K 31/002</a> ; <a href="#">for pigeons A01K 31/07</a> )}
A01K 1/0245	...	{Boxes or cages}
A01K 1/0254	...	{Bags or baskets}
A01K 1/0263	...	{Harnesses}
A01K 1/0272	...	{Boxes, bags, cages, baskets, harnesses especially adapted for transport in or on automobiles}
A01K 1/0281	...	{Boxes, bags, cages, baskets, harnesses especially adapted for transport in or on bicycles or motorcycles}
A01K 1/029	...	{Boxes, bags, cages, baskets, harnesses especially adapted for carrying the animal on the body of a person ( <a href="#">baby carriers A47D 13/02</a> )}
A01K 1/03	..	Housing for domestic or laboratory animals
A01K 1/031	...	{Cages for laboratory animals; Cages for measuring metabolism of animals}
A01K 1/032	...	{Rabbit-hutches or cages}
A01K 1/033	...	{Cat or dog houses}
A01K 1/034	....	{Dog-kennels}
A01K 1/035	..	Devices for use in keeping domestic animals, e.g. fittings in housings, dog beds
A01K 1/0353	...	{Dog beds}

- A01K 1/0356 . . . {Feeding or drinking devices associated with cages (for poultry [A01K 31/005](#), [A01K 31/17](#), [A01K 39/00](#); for birds [A01K 31/06](#))}
- A01K 1/04 . Tethering-poles or the like
- A01K 1/06 . Devices for fastening animals, e.g. halters, toggles, neck-bars, chain fastenings
- A01K 1/0606 . . {by means of grids with or without movable locking bars ([A01K 1/08](#) takes precedence)}
- A01K 1/0613 . . {Devices for immobilisation or restraint of animals, e.g. chutes (pens for animals while being shod [A01L 13/00](#); appliances for supporting or fettering animals for operative purposes [A61D 3/00](#))}
- A01K 1/062 . . Neck-bars, {e.g. neck collars}
- A01K 1/064 . . Chain fastenings
- A01K 1/08 . Arrangements for simultaneously releasing several animals
- A01K 1/10 . Feed racks, {e.g. associated with enclosures or troughs} (devices for impeding movement of animals [A01K 15/04](#))
- A01K 1/105 . . {Movable feed barriers, slides or fences}
- A01K 1/12 . Milking stations (devices for milking [A01J 1/00](#) to [A01J 9/00](#))
- A01K 1/123 . . {Mobile milking parlours}
- A01K 1/126 . . {Carousels}
  
- A01K 3/00** **Pasturing equipment, e.g. tethering devices; {Guiding corridors; Corrals, e.g. portable, collapsible}; Grids for preventing cattle from straying; Electrified wire fencing (construction of fencing in general [E04H 17/00](#); electric circuits for fences [H05C](#))**
- A01K 3/002 . {Grids for preventing cattle from straying}
- A01K 3/005 . {Electrified wire fencing (circuits [H05C](#))}
- A01K 2003/007 . {Fencing and guiding systems for amphibia}
  
- A01K 5/00** **Feeding devices for stock or game ([A01K 1/10](#) takes precedence; for poultry [A01K 39/00](#)) {Feeding wagons; Feeding stacks}**
- A01K 5/001 . {Fodder distributors with mixer or shredder (adaptations of cutting machine [A01F 29/00](#))}
- A01K 5/002 . . {with mixing or shredding element rotating on horizontal axis}
- A01K 5/004 . . {with mixing or shredding element rotating on vertical axis}
- A01K 5/005 . . {where fodder, e.g. bales, is conveyed by conveyor or slide to mixing or shredding elements on transversal and horizontal axes}
- A01K 5/007 . . {with mixing or shredding area contained inside an endless chain or belt conveyor}
- A01K 5/008 . {Feed bags (nose-bags for oats [B68B 5/00](#))}
- A01K 5/01 . Feed troughs; Feed pails {([A01K 1/10](#) takes precedence)}
- A01K 5/0107 . . {Transportable fodder pails or troughs}
- A01K 5/0114 . . {Pet food dispensers; Pet food trays (time-controlled [A01K 5/0291](#))}
- A01K 5/0121 . . . {Disposable pet feeders}
- A01K 5/0128 . . . {Pet feeders with liners}
- A01K 5/0135 . . . {with means for preventing or catching spillage}
- A01K 5/0142 . . . {with means for preventing other animals or insects from eating}

- A01K 5/015 . Licking-stone holders ([salt blocks A23K 1/16](#)); {Other dispensers for minerals}
- A01K 5/02 . Automatic devices {{automatic identification devices for stock [A01K 11/006](#)}}
- A01K 5/0208 .. {with conveyer belts or the like}
- A01K 5/0216 .. {for the distribution of liquid fodder ([A01K 9/00](#) takes precedence)}
- A01K 5/0225 .. {Gravity replenishment from a reserve, e.g. a hopper (for poultry [A01K 39/012](#))}
- A01K 5/0233 ... {dispensing by dosing means actively operated by the animal}
- A01K 5/0241 ... {dispensing by means of stirring mechanisms or agitators operated by the animal}
- A01K 5/025 ... {with access to feeding place or trough only possible through access doors or lids to be opened by the animal}
- A01K 5/0258 .. {with endless screws}
- A01K 5/0266 .. {with stable trolleys, e.g. suspended}
- A01K 5/0275 .. {with mechanisms for delivery of measured doses ([A01K 5/0233](#) takes precedence)}
- A01K 5/0283 ... {by weight}
- A01K 5/0291 .. {with timing mechanisms, e.g. pet feeders}

**A01K 7/00****Watering equipment for stock or game**

- A01K 7/005 . {Drinking bowls with anti-splash or anti-spilling features}
- A01K 7/02 . Automatic devices, {e.g. actuated by weight of water; Medication dispensers} ([construction of valves F16K](#))
- A01K 7/022 .. {Pumps actuated by the drinking animal}
- A01K 7/025 .. {Water tanks}
- A01K 7/027 .. {Drinking equipment with water heaters, coolers or means for preventing freezing}
- A01K 7/04 .. actuated by float
- A01K 7/06 .. actuated by the animal {through valve control (for poultry [A01K 39/0213](#))}

**A01K 9/00****Sucking apparatus for young stock; {Devices for mixing solid food with liquids}**

- A01K 9/005 . {Teats or nipples (teats for feeding bottles for humans [A61J 11/00](#))}

**A01K 11/00****Marking of animals** (of poultry [A01K 35/00](#); {of fish [A01K 61/001](#)}; lead-sealing pliers [B25B](#))

- A01K 11/001 . {Ear-tags}
- A01K 11/002 .. {Pliers specially adapted for fixing ear-tags to ears}
- A01K 11/003 .. {with means for taking tissue samples, e.g. for DNA analysis}
- A01K 11/004 .. {with electronic identification means, e.g. transponders}
- A01K 11/005 . {Branding or tattooing devices for animals}
- A01K 11/006 . {Automatic identification systems for animals, e.g. electronic devices, transponders for animals (identification systems for access to feeding pens [A01K 1/0209](#); ear tags with electronic identification means [A01K 11/004](#))}
- A01K 11/007 .. {Boluses}
- A01K 11/008 .. {incorporating GPS}

<b>A01K 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>
A01K 13/001	. {Washing, cleaning, or drying devices (for veterinary purposes <a href="#">A61D 7/00</a> , <a href="#">A61D 11/00</a> )}
A01K 13/002	. {Curry-combs; Shearing sheep chemically (shearing sheep <a href="#">B26B 19/24</a> )}
A01K 13/003	. {Devices for applying insecticides or medication ( <a href="#">A01K 27/005</a> takes precedence; for veterinary purposes <a href="#">A61D</a> )}
A01K 13/004	. {Rubbing-posts}
A01K 13/005	. {Tail-holders}
A01K 13/006	. {Protective coverings (shoeing of animals <a href="#">A01L</a> ; for veterinary purposes <a href="#">A61D</a> )}
A01K 13/007	.. {Leg, hoof or foot protectors}
A01K 13/008	.. {Horse blankets}
<b>A01K 14/00</b>	<b>Removing the fleece from live sheep or similar animals (hand-held cutting tools <a href="#">B26B</a>)</b>
<b>A01K 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>
A01K 15/003	. {Nose-rings; Fastening tools therefor; Catching or driving equipment}
A01K 15/006	. {Devices for impeding passage of animals under fences, preventing butting or the like}
A01K 15/02	. Training or exercise equipment ( <a href="#">A01K 15/04</a> takes precedence); {Electric shock devices (circuits therefor <a href="#">H03K 3/537</a> ); Toys, e.g. for pets}
A01K 15/021	.. {Electronic training devices specially adapted for dogs or cats}
A01K 15/022	... {Anti-barking devices}
A01K 15/023	... {Anti-evasion devices}
A01K 15/024	.. {Scratching devices, e.g. for cats}
A01K 15/025	.. {Toys, e.g. for chewing}
A01K 15/026	... {Chewable toys, e.g. for dental care of pets}
A01K 15/027	.. {Exercising equipment, e.g. tread mills, carousels (equipment for racing or riding sports events <a href="#">A63K</a> )}
A01K 15/028	.. {Cow trainers}
A01K 15/029	.. {Electric or similar shock devices, e.g. prods (circuits therefor <a href="#">H03K 3/537</a> )}
A01K 15/04	. Devices for impeding movement; Devices for impeding passage through fencing, {e.g. hobbles or the like; Anti-kicking devices (impeding passage under fences <a href="#">A01K 15/006</a> )}
<b>A01K 17/00</b>	<b>Dehorner; Horn trainers</b>
<b>A01K 19/00</b>	<b>Weaning apparatus</b>
<b>A01K 21/00</b>	<b>Devices for assisting or preventing mating (covering boxes <a href="#">A01K 15/00</a>)</b>

<b>A01K 23/00</b>	<b>Manure or urine pouches</b> {(picking up dog excrement from the ground <a href="#">E01H 1/1206</a> )}
A01K 23/005	. {Manure or urine collecting devices used independently from the animal, i.e. not worn by the animal but operated by a person}
<b>A01K 25/00</b>	<b>Muzzles</b>
<b>A01K 27/00</b>	<b>Leads or collars, e.g. for dogs</b> (devices specially adapted or mounted for storing and repeatedly paying-out and re-storing lengths of material <a href="#">B65H 75/34</a> )
A01K 27/001	. {Collars}
A01K 27/002	. {Harnesses}
A01K 27/003	. {Leads, leashes}
A01K 27/004	. . {Retractable leashes}
A01K 27/005	. {Quick-couplings, safety-couplings or shock-absorbing devices between leash and collar}
A01K 27/006	. {with light-emitting or ornamental devices}
A01K 27/007	. {with insecticide-dispensing means}
A01K 27/008	. {with pockets or similar for carrying accessories}
A01K 27/009	. {with electric-shock, sound, magnetic- or radio-waves emitting devices}
<b>A01K 29/00</b>	<b>Other apparatus for animal husbandry</b> {(detecting birth of animals <a href="#">A61D 17/00</a> )}
A01K 29/005	. {Monitoring or measuring activity, e.g. detecting heat or mating}

### **Aviculture; Testing, cleaning, stamping or grading eggs**

<b>A01K 31/00</b>	<b>Housing birds</b>
A01K 31/002	. {Poultry cages, e.g. transport boxes (poultry transport <a href="#">A01K 45/005</a> )}
A01K 31/005	. . {Battery breeding cages, with or without auxiliary features, e.g. feeding, watering, demanuring, heating, ventilation}
A01K 31/007	. . {Floors (for stables <a href="#">A01K 1/015</a> )}
A01K 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> }
A01K 31/04	. Dropping-boards; Devices for removing excrement
A01K 31/06	. Cages, {e.g. for singing birds (for poultry <a href="#">A01K 31/002</a> )}
A01K 31/07	. . Transportable cages ( <a href="#">A01K 31/08</a> takes precedence); {Travelling cages for pigeons; Opening or closing of cages}
A01K 31/08	. . Collapsible cages
A01K 31/10	. Doors; Trap-doors {(for laying-nests <a href="#">A01K 31/16</a> )}
A01K 31/12	. Perches {for poultry or birds, e.g. roosts}
A01K 31/14	. Nest-boxes, {e.g. for singing birds or the like}
A01K 31/16	. . Laying-nests for poultry; Egg collecting {(nest floors <a href="#">A01K 31/007</a> )}
A01K 31/165	. . . {Egg collecting or counting}

A01K 31/17	... Laying batteries {including auxiliary features, e.g. feeding, watering, demanuring, heating, ventilation}
A01K 31/18	. Chicken coops or houses {for baby chicks}; Brooders {including auxiliary features, e.g. feeding, watering, demanuring, heating, ventilation (battery breeding cages <a href="#">A01K 31/005</a> )}
A01K 31/19	.. Brooders; {Foster-mothers; Hovers}
A01K 31/20	.. Heating arrangements; {Ventilation}
A01K 31/22	. Poultry runs; {Poultry houses, including auxiliary features, e.g. feeding, watering, demanuring (air-conditioning of poultry runs or houses <a href="#">A01K 1/0047</a> )}
A01K 31/24	. Dovecots; Pigeon lofts
<b>A01K 33/00</b>	<b>Nest-eggs</b>
<b>A01K 35/00</b>	<b>Marking poultry or other birds {(marking meat <a href="#">A22C 17/10</a>)}</b>
<b>A01K 37/00</b>	<b>Constraining birds, e.g. wing clamps</b>
<b>A01K 39/00</b>	<b>Feeding or drinking appliances for poultry or other birds {(<a href="#">A01K 31/005</a>, <a href="#">A01K 31/06</a>, <a href="#">A01K 31/17</a> take precedence)}</b>
A01K 39/01	. Feeding devices, {e.g. chainfeeders} ( <a href="#">A01K 39/04</a> takes precedence; {panfeeding systems, feeding pans <a href="#">A01K 39/0125</a> )}
A01K 39/0106	.. {for solid feed, e.g. grit-cake holders (licking-stone holders for stock or game <a href="#">A01K 5/015</a> )}
A01K 39/0113	.. {with means to prevent other animals or insects, e.g. squirrels or ants, from eating also}
A01K 39/012	.. filling automatically, {e.g. by gravity from a reserve}
A01K 39/0125	... {Panfeeding systems; Feeding pans therefor}
A01K 39/014	.. Feed troughs; Feed throwers
A01K 39/02	. Drinking appliances ( <a href="#">A01K 39/04</a> takes precedence; construction of valves <a href="#">F16K</a> )
A01K 39/0206	.. {Drinkers especially adapted for feeding hummingbirds}
A01K 39/0213	.. {Nipple drinkers}
A01K 39/022	.. with weight-controlled supply
A01K 39/024	.. with float-controlled supply
A01K 39/026	.. kept filled to constant level from incorporated storage
A01K 39/04	. Combined feeding and drinking appliances, {e.g. also for batteries}
A01K 39/06	. Cramming appliances, {e.g. helical force-feeders}
<b>A01K 41/00</b>	<b>Incubators for poultry</b>
A01K 41/02	. Heating arrangements
A01K 41/023	.. {Devices for regulating temperature}
A01K 41/026	.. {Heating with water}
A01K 41/04	. Controlling humidity in incubators
A01K 41/06	. Egg-turning appliances for incubators
A01K 41/065	.. {Egg drawers}



**A01K 43/00**      **Testing, sorting or cleaning eggs** (investigating or analysing eggs, e.g. by candling [G01N 33/08](#)); **{Conveying devices** (for batteries [A01K 31/165](#)); **Pick-up devices}**

- A01K 43/005      .    {Cleaning, washing of eggs}
- A01K 43/04      .    Grading eggs
- A01K 43/06      . .    according to size
- A01K 43/08      . .    according to weight (sorting according to weight in general [B07C 5/16](#))
- A01K 43/10      . .    Grading and stamping

**A01K 45/00**      **Other aviculture appliances, e.g. devices for determining whether a bird is about to lay**

- A01K 45/002      .    {Bird baths or showers}
- A01K 45/005      .    {Harvesting or transport of poultry}
- A01K 45/007      .    {Injecting or otherwise treating hatching eggs}

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

**A01K 47/00**      **Beehives**

- A01K 47/02      .    Construction or arrangement of frames for honeycombs
- A01K 47/04      .    Artificial honeycombs
- A01K 47/06      .    Other details of beehives, e.g. ventilating devices, entrances to hives, guards, partitions, bee escapes

**A01K 49/00**      **Rearing-boxes; Queen transporting or introducing cages**

**A01K 51/00**      **Appliances for treating beehives or parts thereof, e.g. for cleaning or disinfecting**

**A01K 53/00**      **Feeding or drinking appliances for bees**

**A01K 55/00**      **Bee-smokers; Bee-keepers` accessories, e.g. veils** ({smoke-generators for gardens or orchards [A01G 13/06](#), for killing insects [A01M 13/006](#), for killing rats [A01M 17/004](#)}; smoking pipes [A24F](#))

**A01K 57/00**      **Appliances for providing, preventing or catching swarms; Drone-catching devices**

**A01K 59/00**      **Honey collection**

- A01K 59/02      .    Devices for uncapping honeycombs
- A01K 59/04      .    Honey strainers; {Strainers with centrifuges or presses}
- A01K 59/06      .    Devices for extracting wax



**Pisciculture; Aquaria; Terraria**

- A01K 61/00**      **Culture of fish, mussels, crayfish, lobsters, sponges, pearls or the like**  
(harvesting oysters, mussels, sponges or the like [A01K 80/00](#))
- [A01K 61/001](#)      . {Sorting, grading counting or marking live fish; Sex determination (sorting dead fish [A22C 25/04](#); sorting in general [B07B](#), [B07C](#); counting in general [G06M](#))}
- [A01K 61/002](#)      . {Culture of bivalves, e.g. oysters, mussels}
- [A01K 61/003](#)      . {Cleaning bottoms or walls of ponds or receptacles (cleaning windows [A47L](#); cleaning in general [B08B](#); tank cleaning specially adapted for vessels [B63B 57/00](#); cleaning devices for hulls [B63B 59/00](#); devices for cleaning the submerged surfaces of a swimming pool [E04H 4/16](#))}
- [A01K 61/005](#)      . {Culture of crustacea, e.g. lobsters, prawns, shrimps}
- [A01K 61/006](#)      . {Artificial reefs specially adapted for the culture of fish}
- [A01K 61/007](#)      . {Floating fish-farms}
- [A01K 61/008](#)      . {Incubators or hatching devices for fish}
- [A01K 61/02](#)      . Feeding devices for fish {(fish food [A23K 1/188](#))}
- [A01K 61/025](#)      .. {for use with aquaria}
- A01K 63/00**      **Receptacles for live fish, e.g. aquaria** (keepnets or other containers for keeping captured fish [A01K 97/20](#)); **Terraria** {(receptacles for rearing fish [A01K 61/00](#))}
- [A01K 63/003](#)      . {Aquaria; Terraria ([A01K 63/04](#), [A01K 63/06](#) take precedence)}
- [A01K 63/006](#)      .. {Accessories for aquaria or terraria}
- [A01K 63/02](#)      . Receptacles specially adapted for transporting live fish
- [A01K 63/04](#)      . Arrangements for treating water specially adapted to receptacles for live fish, {e.g. filters, water pumps} {(cleaning receptacles [A01K 61/003](#)); filters in general [B01D](#); water treatment in general [C02F](#))}
- [A01K 63/042](#)      .. {Introducing gases into the water, e.g. aerators, air pumps}
- [A01K 63/045](#)      .. {Filters for aquaria}
- [A01K 63/047](#)      .. {Liquid pumps for aquaria (air pumps for aquaria [A01K 63/042](#))}
- [A01K 63/06](#)      . Arrangements for heating or lighting in, or attached to, receptacles for live fish (heating, {cooling} or lighting apparatus per se [F21](#), [H01](#), [H05B](#))
- [A01K 63/065](#)      .. {Heating or cooling devices}
- A01K 65/00**      **Fish stringers** {(devices for threading fish on strings [A22C 25/10](#))}
- A01K 67/00**      **Rearing or breeding animals, not otherwise provided for; New breeds of animals** (methods for reproduction or fertilisation [A61D 19/00](#); medicinal preparations containing sperm [A61K 35/52](#); tissue- or animal-cell cultivation apparatus [C12M 3/00](#); cultivation or maintenance of tissue or animal cells [C12N 5/00](#); mutation or genetic engineering [C12N 15/00](#))

**NOTE**

In this group the following term is used with the meaning indicated:

A01K 67/00  
(continued)

- "breeding" means obtaining animals up to and including their birth or hatching.

A01K 67/02

- . Breeding vertebrates (covering boxes [A01K 15/00](#); devices for assisting or preventing mating [A01K 21/00](#))

#### **NOTE**

Documents relating to new peptides or new DNA or its corresponding mRNA encoding for peptides, and their use for the obtention of transgenic animals, are classified in subclass [C07K](#) or in group [C12N 9/00](#) according to the peptides, with the appropriate indexing codes]

A01K 67/027

- . New breeds of vertebrates

#### **NOTE**

In group [A01K 67/027](#), it is desirable to add the indexing codes of [A01K 2227/00](#) and subgroups relating to animals characterised by species. In group [A01K 67/027](#) it is desirable to add the indexing codes of [A01K 2267/00](#) and subgroups relating to animals characterised by their purpose

A01K 67/0271

- .. {Chimeric animals, e.g. comprising exogenous cells}

A01K 67/0273

- .. {Cloned animals}

A01K 67/0275

- .. {Genetically modified vertebrates, e.g. transgenic}

A01K 67/0276

- ... {Knockout animals}

A01K 67/0278

- ... {Humanized animals, e.g. knockin}

A01K 67/033

- . Rearing or breeding invertebrates; New breeds of invertebrates (non-chemical sterilisation of invertebrates [A01M](#))

#### **NOTE**

In group [A01K 67/033](#), it is desirable to add the indexing codes relating to transgenic animals. In group [A01K 67/033](#), it is desirable to add the indexing codes relating to animals characterised by their purpose

A01K 67/0331

- .. {Snails ([A01K 67/0333](#) takes precedence)}

A01K 67/0332

- .. {Earthworms ([A01K 67/0333](#) takes precedence)}

A01K 67/0333

- .. {Genetically modified invertebrates, e.g. transgenic, polyploid}

A01K 67/0334

- ... {Genetically modified Molluscs}

A01K 67/0335

- ... {Genetically modified worms}

A01K 67/0336

- .... {Genetically modified Nematodes, e.g. *Caenorhabditis elegans*}

A01K 67/0337

- ... {Genetically modified Arthropods}

A01K 67/0338

- .... {Genetically modified Crustaceans}

A01K 67/0339

- .... {Genetically modified insects, e.g. *Drosophila melanogaster*, medfly}

A01K 67/04

- .. Silkworms {([A01K 67/0333](#) takes precedence)}

**Fishing** (fish stringers [A01K 65/00](#))**A01K 69/00****Stationary catching devices**

- A01K 69/02 . Fixed nets without traps
- A01K 69/04 . Fixed nets with traps
- A01K 69/06 . Traps
- A01K 69/08 .. Rigid traps, e.g. lobster pots
- A01K 69/10 .. Collapsible traps

**A01K 71/00****Floating nets** {(if drawn [A01K 73/00](#))}**A01K 73/00****Drawn nets**

- A01K 73/02 . Trawling nets
- A01K 73/025 .. {Regulation of net depth}
- A01K 73/04 .. Devices for spreading or positioning, e.g. control thereof
- A01K 73/045 ... for lateral sheering, e.g. trawl boards
- A01K 73/05 ... for vertical sheering
- A01K 73/053 ... Ground-line rollers
- A01K 73/06 .. Hauling devices for the headlines, {also for nets; Winches ([A01K 73/12](#) takes precedence)}
- A01K 73/10 .. Determining the quantity of the catch, e.g. by the pull or drag on the lines
- A01K 73/12 . Nets held vertically in the water, e.g. seines

**A01K 74/00****Other catching nets or the like****A01K 75/00****Accessories for nets; Details of nets, e.g. structure**

- A01K 75/02 . Illuminating devices for nets
- A01K 75/04 . Floats (for angling [A01K 93/00](#))
- A01K 75/06 . Sinkers (for angling [A01K 95/00](#))

**A01K 77/00****Landing-nets; Landing-spoons****A01K 79/00****Methods or means of catching fish in bulk not provided for in groups [A01K 69/00](#) to [A01K 77/00](#), {e.g. fish pumps; Detection of fish; Whale fishery}**

- A01K 79/02 . by electrocution (electric circuits therefor [H05C](#)); {Attracting or stunning fish; Scaring sharks}

**A01K 80/00****Harvesting oysters, mussels, sponges or the like, {e.g. drags, clam diggers, marine life collectors}** (nets [A01K 73/00](#), [A01K 74/00](#); dredgers [E02F](#))**A01K 81/00****Fishing with projectiles** (weapons, projectiles other than fish-spears [F41](#), [F42](#))

- A01K 81/04 . Fish-spears
- A01K 81/06 . Equipment for hunting fish under water (swimming equipment [A63B 31/00](#) to [A63B 35/00](#))

**Angling****A01K 83/00****Fish-hooks** {(making fish-hooks [B21F 45/12](#))}

A01K 83/02

- . Expanding fish-hook assembly

A01K 83/04

- . with special gripping arms

A01K 83/06

- . Devices for holding bait on hooks {(baiting trotlines [A01K 91/18](#); non-living bait [A01K 97/045](#))}

**A01K 85/00****Artificial baits, {i.e. Lures}**

A01K 85/005

- . {without hooks}

A01K 85/01

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

A01K 85/02

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

A01K 85/08

- . Artificial flies ([fly tying devices A01K 97/26](#))

A01K 85/10

- . with at least one flat rotating body having its axis of rotation substantially non-coincident with the longitudinal axis of the body, {e.g. [spinners](#)}

A01K 85/12

- . comprising a body rotating around its longitudinal axis, e.g. devons

A01K 85/14

- . with flat, or substantially flat, undulating bodies, e.g. spoons

A01K 85/16

- . with other than flat, or substantially flat, undulating bodies, e.g. plugs

A01K 85/18

- . . . in two or more pieces

**A01K 87/00****Rods**

A01K 87/002

- . {with the line passing through the hollow rod}

A01K 87/005

- . . . {comprising internal line guides}

A01K 87/007

- . {with built-in accessories, e.g. lighting means or measuring devices}

A01K 87/02

- . Connecting devices for parts of the rods

A01K 87/025

- . . . {telescopic}

A01K 87/04

- . Fishing-line guides on rods, {e.g. [tips \(internal line guides A01K 87/005\)](#)}

A01K 87/06

- . Devices for fixing reels on rods

A01K 87/08

- . Handgrips

A01K 87/085

- . . . {Heating devices or other means to protect against the cold}

**A01K 89/00****Reels** (devices for casting lines [A01K 91/02](#))**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.

A01K 89/003

- . {Devices for transferring line to a reel}

A01K 89/004

- . {Alternate right or left side drives}

**WARNING**

A01K 89/004  
(continued)

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.

A01K 89/006  
A01K 89/009

- . {Hand crank features}
- .. {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.

A01K 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.

A01K 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.

A01K 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.

A01K 89/01026

- .... {with rotor and snubber shiftable axially}

A01K 89/01029

- ..... {with guiding members shifted radially}

A01K 89/0105

- .. {Multi-speed mechanisms}

A01K 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.

A01K 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.

A01K 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.

A01K 89/01082      ....      {Guiding members shiftable on rotor}

A01K 89/01083      .....      {to wind position by rotor drive}

A01K 89/01084      .....      {Guiding members shifted to unwind position by discrete manual operators}

A01K 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.

A01K 89/01086      ....      {with rotor drive shifting the guiding member to unwind and wind positions}

A01K 89/01087      ....      {with manual actuator to shift guiding member to unwind position}

A01K 89/01088      .....      {Actuators forward of spool}

A01K 89/0111      ..      {Spool details}

A01K 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.

A01K 89/011221 ... {with line or water shields}  
 A01K 89/011222 ... {with lubrication features}  
 A01K 89/011223 ... {with bearing features}  
 A01K 89/01123 ... {Frame disassembly features}  
 A01K 89/01124 .... {Hinged frame sections}  
 A01K 89/01125 .... {Rotated joints}  
 A01K 89/01126 ..... {Threaded}  
 A01K 89/01127 ... {Reel supports}  
 A01K 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.

A01K 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.

A01K 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.



A01K 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.

A01K 89/01143     ....     {Reversely threaded screws}

A01K 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.

A01K 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.

A01K 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.

A01K 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.

A01K 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 89/0122

(continued)

[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.

A01K 89/0123

... {Clicking indicators, e.g. flexible pawl and toothed member}

A01K 89/0124

... {Spring biased pawls}

A01K 89/0125

.... {Plural spring sections}

A01K 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.

A01K 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.

A01K 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.

A01K 89/01555

... {using magnets}

A01K 89/01556

... {Line tension responsive actuators}

**WARNING**

A01K 89/01556

(continued)

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.

A01K 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.

A01K 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.

A01K 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](#).

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

A01K 89/0165

..

for trolling

A01K 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.

A01K 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.

A01K 89/0172

....

{actuated in response to pull on line}

- A01K 89/0173 . . . . {with independent manual drive}
- A01K 89/0174 . . . . {with spring chargers}
- A01K 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.

- A01K 89/0176 . . . {with guide shiftable between wind and unwind positions}
- A01K 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.

- A01K 89/0179 . . . {Clicking indicators, e.g. flexible pawl and toothed member}
- A01K 89/018 . . . {Spring biased pawls}
- A01K 89/0181 . . . . {Plural spring sections}
- A01K 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 89/01901](#), [A01K 89/01902](#), [A01K 89/01903](#), [A01K 89/01904](#), [A01K 89/01905](#), [A01K 89/01906](#), [A01K 89/01907](#),

A01K 89/0182

(continued)

[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.

A01K 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 89/01901](#), [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.

A01K 89/0184

... {Multiple drive ratio}

A01K 89/0185

... {Ratchet-type drive}

A01K 89/0186

... {with disengageable positive drive components, e.g. a clutch}

A01K 89/0187

.... {having alternative yieldable mechanism}

A01K 89/0188

.... {Axially engaged}

A01K 89/0189

..... {Coaxial of spool}

A01K 89/01901

.... {Reengageable responsive to drive rotation}

A01K 89/01902

.... {Gear pair}

A01K 89/01903

... {with yieldable drive coupling, e.g. friction or fluid clutch}

A01K 89/01904

.... {adjustable by crank manipulation}

A01K 89/01905

..... {adjustable within distinct ranges}

A01K 89/01906

.... {between drive shaft and crank}

A01K 89/01907

.... {between drive shaft and gear}

A01K 89/01908

.... {Coaxial with spool}

A01K 89/01909

..... {Axially applied}

A01K 89/0191

..... {by centre pin}

A01K 89/01911

... {with feed roller}

A01K 89/01912

... {with level winding}

A01K 89/019125

.... {Line shifts along a rotatable cam bar}

A01K 89/01913	....	{Line traction guide wheels}
A01K 89/01914	....	{Manually shifted guides}
A01K 89/01915	....	{the drive mechanism oscillating the guide}
A01K 89/01916	....	{the drive mechanism reciprocating the guide}
A01K 89/01917	.....	{Reversely threaded screw}
A01K 89/01918	.....	{Guide shiftable between wind and unwind positions}
A01K 89/01919	.....	{Guide having line removal opening}
A01K 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 89/01901](#), [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.

A01K 89/01921	...	{Frame disassembly features}
A01K 89/01922	....	{Hinged frame sections}
A01K 89/01923	....	{Rotated joints}
A01K 89/01924	.....	{Threaded}
A01K 89/01925	...	{Reel supports, e.g. reel feet}
A01K 89/01928	...	{with line or water shields}
A01K 89/01929	...	{with lubrication features}
A01K 89/0193	...	{with bearing features}
A01K 89/01931	..	{Spool or spool shaft details (spool details in reel with pick-up <a href="#">A01K 89/0111</a> )}

**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](#).

A01K 89/01931

(continued)

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

A01K 89/02

. Brake devices for reels

A01K 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.

A01K 89/0275

. . . {with closed face}

A01K 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.

A01K 89/029

. . . {between spool shaft and frame}

A01K 89/03

. . . {between spool and spool shaft}

A01K 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.

A01K 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.



A01K 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.

A01K 89/047 . . . . {Radially applied}

A01K 89/048 . . . . . {Rolling contact}

A01K 89/049 . . . . . {Separable attachments}

A01K 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.

A01K 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.

A01K 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.

A01K 89/053 . . . . {One-way}

A01K 89/054 . . . . . {with disabler}  
 A01K 89/055 . . . . . {Rotation responsive}  
 A01K 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.

A01K 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.

A01K 89/058 . . . . {Coaxial with spool}  
 A01K 89/059 . . . . {on adjustable lever}  
 A01K 89/06 . . . Reversible reels {, i.e. with spool axis shiftable between winding and unwinding  
 positions}  
 A01K 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.

A01K 89/081 . . {Axial unwinding}

**WARNING**

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

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

**A01K 91/00****Lines**

A01K 91/02 . . . Devices for casting lines  
 A01K 91/03 . . . Connecting devices (devices for fixing on or removing sinkers from lines [A01K 95/02](#))

A01K 91/04	.. for connecting lines to hooks or lures
A01K 91/047	.. for connecting lines to lines
A01K 91/053	.. Fishing booms, i.e. connecting devices spreading out the leaders, e.g. to avoid tangling thereof
A01K 91/06	. Apparatus on lines not otherwise provided for, e.g. automatic hookers ( <a href="#">floats A01K 93/00</a> )
A01K 91/065	.. {Jiggling devices, i.e. devices for moving the lure}
A01K 91/08	.. Trolling devices
A01K 91/10	.. for automatic hook setting
A01K 91/12	. Fly lines
A01K 91/14	. Leaders
A01K 91/16	.. for fly fishing
A01K 91/18	. Trotlines, longlines; Accessories therefor, e.g. baiting devices, lifters, setting reelers
A01K 91/20	. Line length or depth measuring devices
<b>A01K 93/00</b>	<b>Floats for angling, with or without signalling devices</b>
A01K 93/02	. with signalling devices
<b>A01K 95/00</b>	<b>Sinkers for angling (for trawling <a href="#">A01K 75/06</a>)</b>
A01K 95/005	. {Sinkers not containing lead}
A01K 95/02	. Devices for fixing on or removing sinkers from lines
<b>A01K 97/00</b>	<b>Accessories for angling (landing-nets, landing-spoons <a href="#">A01K 77/00</a>)</b>
A01K 97/01	. for ice-fishing; {Ice drilling, hook-setting or signalling devices}
A01K 97/02	. Devices for laying ground-bait, e.g. chum dispensers, {e.g. also for throwing ground-bait}
A01K 97/04	. Containers for bait; Preparation of bait; {Dispensers} (feeding-stuffs for particular animals <a href="#">A23K 1/18</a> )
A01K 97/045	.. {Preparation of bait; Ingredients}
A01K 97/05	.. Containers for live bait kept in water, e.g. for minnows, shrimps
A01K 97/06	. Containers or holders for hooks, lines, sinkers, flies or the like
A01K 97/08	. Containers for rods
A01K 97/10	. Supports for rods
A01K 97/11	.. with automatic hooking devices
A01K 97/12	. Signalling devices, e.g. tip-up devices ( <a href="#">A01K 91/06</a> takes precedence; {for floats <a href="#">A01K 93/02</a> ; for ice-fishing <a href="#">A01K 97/01</a> ; for supports <a href="#">A01K 97/10</a> })
A01K 97/125	.. {using electronic components}
A01K 97/14	. Gaffs
A01K 97/16	. Devices for drying fishing lines
A01K 97/18	. for removing fish-hooks from the fish
A01K 97/20	. Keepnets or other containers for keeping captured fish ( <a href="#">A01K 97/05</a> takes precedence)

- A01K 97/22 . Platforms or seat-boxes specially adapted for angling, e.g. tackle boxes for use as seats
- A01K 97/24 . Arrangements for disengaging fish-hooks from obstacles
- A01K 97/26 . Fly tying devices
- A01K 97/28 . . Vices specially adapted therefor

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

---

**A01K 2207/00** **Modified animals**

- A01K 2207/05 . Animals modified by non-integrating nucleic acids, e.g. antisense, RNAi, morpholino, episomal vector, for non-therapeutic purpose
- A01K 2207/10 . Animals modified by protein administration, for non-therapeutic purpose
- A01K 2207/12 . Animals modified by administration of exogenous cells
- A01K 2207/15 . Humanized animals

**NOTE**

This group covers animals comprising human nucleic acids, proteins or cells. Classification in this group should be done in combination with [A01K 2217/00](#) codes.

- A01K 2207/20 . Animals treated with compounds which are neither proteins nor nucleic acids
- A01K 2207/25 . Animals on a special diet
- A01K 2207/30 . Animals modified by surgical methods
- A01K 2207/35 . Animals modified by environmental factors, e.g. temperature, O<sub>2</sub>

**A01K 2217/00** **Genetically modified animals**

- A01K 2217/03 . Animals modified by random mutagenesis, e.g. using ENU, chemicals
- A01K 2217/05 . Animals comprising random inserted nucleic acids (transgenic)
  - A01K 2217/052 . . inducing gain of function
  - A01K 2217/054 . . inducing loss of function
    - A01K 2217/056 . . . due to mutation of coding region of the transgene (dominant negative)
    - A01K 2217/058 . . . due to expression of inhibitory nucleic acid, e.g. siRNA, antisense
- A01K 2217/07 . Animals genetically altered by homologous recombination
  - A01K 2217/072 . . maintaining or altering function, i.e. knock in
  - A01K 2217/075 . . inducing loss of function, i.e. knock out
    - A01K 2217/077 . . . heterozygous knock out animals displaying phenotype
- A01K 2217/15 . Animals comprising multiple alterations of the genome, by transgenesis or homologous recombination, e.g. obtained by cross-breeding
- A01K 2217/20 . Animal model comprising regulated expression system
- A01K 2217/203 . . Animal model comprising inducible/conditional expression system, e.g. hormones, tet
- A01K 2217/206 . . Animal model comprising tissue-specific expression system, e.g. tissue specific expression of transgene, of Cre recombinase

- A01K 2217/30 . . Animal model comprising expression system for selective cell killing, e.g. toxins, enzyme dependent prodrug therapy using ganciclovir

**A01K 2227/00 Animals characterised by species (Not used)**

- A01K 2227/10 . . Mammal
- A01K 2227/101 . . . Bovine
- A01K 2227/102 . . . Caprine
- A01K 2227/103 . . . Ovine
- A01K 2227/105 . . . Murine
- A01K 2227/106 . . . Primate
- A01K 2227/107 . . . Rabbit
- A01K 2227/108 . . . Swine
- A01K 2227/30 . . Bird
- A01K 2227/40 . . Fish
- A01K 2227/50 . . Amphibians, e.g. Xenopus
- A01K 2227/70 . . Invertebrates
- A01K 2227/703 . . . Worms, e.g. Caenorhabditis elegans
- A01K 2227/706 . . . Insects, e.g. Drosophila melanogaster, medfly

**A01K 2267/00 Animals characterised by purpose (Not used)**

- A01K 2267/01 . . Animal expressing industrially exogenous proteins
- A01K 2267/02 . . Animal zootechnically ameliorated
- A01K 2267/025 . . . Animal producing cells or organs for transplantation
- A01K 2267/03 . . Animal model, e.g. for test or diseases
- A01K 2267/0306 . . . Animal model for genetic diseases
- A01K 2267/0312 . . . . Animal model for Alzheimer's disease
- A01K 2267/0318 . . . . Animal model for neurodegenerative disease, e.g. non- Alzheimer's
- A01K 2267/0325 . . . . Animal model for autoimmune diseases
- A01K 2267/0331 . . . Animal model for proliferative diseases
- A01K 2267/0337 . . . Animal models for infectious diseases
- A01K 2267/0343 . . . . Animal model for prion disease
- A01K 2267/035 . . . Animal model for multifactorial diseases
- A01K 2267/0356 . . . . Animal model for processes and diseases of the central nervous system, e.g. stress, learning, schizophrenia, pain, epilepsy
- A01K 2267/0362 . . . . Animal model for lipid/glucose metabolism, e.g. obesity, type-2 diabetes
- A01K 2267/0368 . . . . Animal model for inflammation
- A01K 2267/0375 . . . . Animal model for cardiovascular diseases
- A01K 2267/0381 . . . . Animal model for diseases of the hematopoietic system
- A01K 2267/0387 . . . . Animal model for diseases of the immune system
- A01K 2267/0393 . . . Animal model comprising a reporter system for screening tests