CPC  COOPERATIVE PATENT CLASSIFICATION

A  HUMAN NECESSITIES

HEALTH; AMUSEMENT

A63  SPORTS; GAMES; AMUSEMENTS

A63B  APPARATUS FOR PHYSICAL TRAINING, GYMNASTICS, SWIMMING, CLIMBING, OR FENCING; BALL GAMES; TRAINING EQUIPMENT (apparatus for passive exercising, massage A61H)

WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

- A63B 7/06 covered by A63G 1/00
- A63B 22/08 covered by A63B 22/0005
- A63B 22/10 covered by A63B 22/0005, A63B 22/0002
- A63B 22/12 covered by A63B 22/0005
- A63B 29/04 covered by A63B 29/00
- A63B 31/16 covered by A63B 31/14 - A63B 31/18
- A63B 63/02 covered by A63B 63/00
- A63B 63/04 covered by A63B 63/00
- A63B 69/22 covered by A63B 69/20
- A63B 69/28 covered by A63B 69/20
- A63B 69/30 covered by A63B 69/20
- A63B 71/16 covered by A63B 71/14 - A63B 71/148

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

Gymnastic exercising apparatus (training apparatus for special sports A63B 69/00; apparatus for passive exercising, massage A61H)

1/00 Horizontal bars
  1/005 . (Safety devices for securing the rods)
  1/04 . Cleaning the rods

3/00 Parallel bars or similar apparatus

4/00 Balance beams

5/00 Apparatus for jumping (mats for jumping A63B 6/00; for racing or riding sports, e.g. hurdles A63K)
  5/02 . High-jumping posts
  5/04 . Ropes [or similar devices] therefor
  5/05 . Vaulting poles [; Take-off boxes therefor]
  5/08 . Spring-boards (of trampoline type A63B 5/11 [; in the form of spring mats A63B 6/00])
  2005/085 . (for launching, e.g. cataputting)
  5/10 . for aquatic sports
  5/11 . Trampolines
  5/12 . Bolster vaulting apparatus, e.g. horses, bucks, tables
  5/16 . Training devices for jumping; Devices for balloon-jumping; Jumping aids (A63B 25/02, A63B 25/10 take precedence)
  2005/163 . (Free-fall jumping on elastic cords, e.g. Bungee jumping)
  5/166 . (Devices for balloon-jumping)
  5/20 . Skipping-ropes [or similar devices rotating in a vertical plane]
  5/205 . (Powered skipping rope devices)

5/22 . Foot obstacles for skipping [e.g. horizontally-rotating obstacles]

6/00 Mats or the like for absorbing shocks for jumping, gymnastics or the like
  6/02 . for landing, e.g. for pole vaulting
  6/025 . (Sand landing pits, e.g. for long jumping)

7/00 Freely-suspended gymnastic apparatus
  7/02 . Swinging rings; Trapezes
  7/04 . Climbing-ropes
  7/045 . (Using endless ropes)
  7/08 . Apparatus for rope-dancing
  7/085 . (Balancing on a band tensioned between two anchor points, e.g. Slackline type)

9/00 Climbing poles, frames, or stages [(climbing walls for mountaineering training A63B 69/0048; endless loop ladders A63B 22/04)]
  2009/002 . (Flat climbing nets)
  2009/004 . (Three-dimensional rope or cable networks)
  2009/006 . (Playground structures)
  2009/008 . (with water spraying means)

15/00 Clubs for gymnastics or the like [e.g. for swinging exercises]
Gymnastic exercising apparatus

A63B

15/005  . . [with a weight movable along the longitudinal axis of the club due to centrifugal forces]

**WARNING**

Group A63B 15/005 is impacted by reclassification into group A63B 60/04.
Groups A63B 15/005 and A63B 60/04 should be considered in order to perform a complete search.

15/02  . . with illuminating devices

17/00  Exercising apparatus combining several parts such as ladders, rods, beams, slides

17/02  . . rigidly combined

17/04  . . separable

19/00  Hoop exercising apparatus ((A63B 21/0608 takes precedence))

19/02  . . Freely-movable rolling hoops, e.g. gyrowheels

19/04  . . movably supported on a framework (or spheres or cylinders carrying the user inside (standing on it for equilibrium exercises A63B 26/003))

21/00  Exercising apparatus for developing or strengthening the muscles or joints of the body by working against a counterforce, with or without measuring devices (electric or electronic controls therefor A63B 24/00)

**NOTE**

In this subclass, the following terms or expressions are used with the meaning indicated:
• "resistance" and "resistance force" are often used in the art as synonyms for "counterforce";
• "interface with the user" covers the part of the apparatus, on which the user directly applies his force

21/0004  . . (Exercising devices moving as a whole during exercise (bar bells or dumb bells A63B 21/072; on wheels A63B 22/20))

21/00043  . . (Exercising devices consisting of a pair of user interfaces connected by flexible elements, e.g. two handles connected by elastic bands (skipping ropes A63B 5/20; resilient elements A63B 21/02))

21/00047  . . (Exercising devices not moving during use (benches A63B 21/029; isometric exercising devices A63B 21/023; step exercisers A63B 23/0458; walk exercisers A63B 23/0464))

21/0005  . . . [specially adapted for head stands]

21/00054  . . . [specially adapted for shoulder stands]

21/00058  . . . (Mechanical means for varying the resistance (A63B 21/06 takes precedence)

21/00061  . . . [Replaceable resistance units of different strengths, e.g. for swapping]

21/00065  . . . [by increasing or reducing the number of resistance units]

21/00069  . . . [Setting or adjusting the resistance level; Compensating for a preload prior to use, e.g. changing length of resistance or adjusting a valve]

21/00072  . . . [by changing the length of a lever]

21/00076  . . . [on the fly, i.e. varying the resistance during exercise]

21/00178  . . . [for active exercising, the apparatus being also usable for passive exercising]

21/00181  . . . [comprising additional means assisting the user to overcome part of the resisting force, i.e. assisted-active exercising]

21/00185  . . . [using resistance provided by the user, e.g. exercising one body part against a resistance provided by another body part (A63B 21/008 takes precedence; isometric exercise A63B 21/0023)]

21/00189  . . . [using resistance provided by plastic deformable materials, e.g. lead bars or kneadable masses (resilient force-resisters made of material having high internal friction A63B 21/023)]

21/00192  . . . [using resistance provided by magnetic means (A63B 21/005 takes precedence)]

21/00196  . . . [using pulsed counterforce, e.g. vibrating resistance means (A63B 21/005 takes precedence)]

21/002  . . . isometric or isokinetic, i.e. substantial force variation without substantial muscle motion (or wherein the speed of the motion is independent of the force applied by the user)

21/0023  . . . [for isometric exercising, i.e. substantial force variation without substantial muscle motion]

21/005  . . . using electromagnetic or electric force-resisters

21/0051  . . . [using eddy currents induced in moved elements, e.g. by permanent magnets]

21/0052  . . . [induced by electromagnets (A63B 21/0056 takes precedence)]

21/0053  . . . [using alternators or dynamos]

21/0054  . . . [for charging a battery]

21/0055  . . . [the produced electric power used as a source for other equipment, e.g. for TVs]

21/0056  . . . [using electromagnetically-controlled friction, e.g. magnetic particle brakes]

21/0057  . . . [using electromagnetic clutches]

21/0058  . . . [using motors]

21/0059  . . . [using a frequency controlled AC motor]

21/008  . . . using hydraulic or pneumatic force-resisters

21/0083  . . . [of the piston-cylinder type (using pneumatic piston-cylinder type force resistors A63B 21/00871)]

21/0084  . . . [by moving the surrounding water (A63B 31/00, A63B 35/00 take precedence)]

21/00845  . . . [using electrotheroeological or magnetorheological fluids]

21/0085  . . . [using pneumatic force-resisters]

21/0087  . . . [of the piston-cylinder type (using hydraulic piston-cylinder type force resistors A63B 21/0083)]

21/0088  . . . [by moving the surrounding air]

21/0089  . . . [Suction cups]

21/012  . . . using frictional force-resisters (electromagnetically-controlled brakes A63B 21/0056)

21/0125  . . . [with surfaces rolling against each other without substantial slip]

21/015  . . . including rotating or oscillating elements (rubbing against fixed elements)

21/018  . . . including a rope (or other flexible element) moving relative to the surface of elements

21/02  . . . using resilient force-resisters
Gymnastic exercising apparatus

21/021 . . . [whereby the resistance changes abruptly during the exercising movement, e.g. by using toggles]
21/022 . . . [with springs acting at different parts of the stroke]
21/023 . . . [Wound springs]
21/025 . . . [Spiral springs with turns lying substantially in plane surfaces]
21/026 . . . [Bars; Tubes; Leaf springs (A63B 21/023 takes precedence)]
21/027 . . . [Apparatus forced to oscillate at its resonant frequency]
21/028 . . . [made of material having high internal friction, e.g. rubber, steel wool, intended to be compressed (resistance provided by plastic deformable materials A63B 21/00189)]
21/04 . . . attached to static foundation [e.g. a user]
21/0407 . . . [anchored at two end points, e.g. installed within an apparatus]
21/0414 . . . [with both ends stationary during the actual exercise, i.e. moving only at intermediate locations]
21/0421 . . . [the ends moving relatively by a pivoting arrangement]
21/0428 . . . [the ends moving relatively by linear reciprocation]
21/0435 . . . [One or both ends being anchored to a rotating element]
21/0442 . . . [anchored at one end only, the other end being manipulated by the user]
21/045 . . . having torsion [or bending or flexion] element
21/0455 . . . [having torsion element around its longitudinal axis]
21/05 . . . Linearly-compressed elements [(A63B 21/028 takes precedence)]
21/055 . . . extension element type
21/0552 . . . [Elastic ropes or bands]
21/0555 . . . [Details of the rope or band, e.g. shape or colour coding]
21/0557 . . . [Details of attachments, e.g. clips or clamps]
21/06 . . . User-manipulated weights
21/0601 . . . [Special physical structures of used masses]
21/0602 . . . [Fluids, e.g. water]
21/0603 . . . [Fluid-like particles, e.g. gun shot or sand]
21/0604 . . . [Solid masses, e.g. concrete (A63B 21/0603 takes precedence)]
21/0605 . . . [with boxes, baskets or the like for stacking loose weights therein]
21/0606 . . . [Buoyant volumes to be submerged]
21/0607 . . . [Plastic masses, e.g. elastomers; Masses provided with plastic coverings]
21/0608 . . . [Eccentric weights put into orbital motion by nutating movement of the user]
21/0609 . . . [consisting of loosely interconnected elements for progressively changing weight, e.g. heavy chains]
21/0615 . . . [pivoting about a fixed horizontal fulcrum]
21/0616 . . . [with an adjustable moment (A63B 21/0617 takes precedence)]
21/0617 . . . [with a changing moment as a function of the pivot angle]
21/0618 . . . [moving in a horizontal plane without substantial friction, i.e. using inertial forces]
21/062 . . . including guide for vertical {or non-vertical weights or} array of weights {to move against gravity forces]
21/0622 . . . [with adjustable inclination angle of the guiding means]
21/0624 . . . [by moving the guiding means]
21/0626 . . . [with substantially vertical guiding means]
21/0628 . . . . . . [for vertical array of weights]
21/063 . . . . . . [Weight selecting means]
21/0632 . . . . . . [the weights being lifted by rigid means]
21/065 . . . . . . [worn on user's body]
21/068 . . . . . . [using user's body weight]
21/072 . . . . . . [Dumb-bells, bar-bells or the like {, e.g. weight discs having an integral peripheral handle}]
21/0722 . . . . . . [transformable, e.g. from dumb-bell to bar-bell]
21/0724 . . . . . . [Bar-bells; Hand bars]
21/0726 . . . . . . [Dumb bells, i.e. with a central bar to be held by a single hand, and with weights at the ends]
21/0728 . . . . . . [with means for fixing weights on bars, i.e. fixing olympic discs or bumper plates on bar-bells or dumb-bells]
21/075 . . . . . . [with variable weights {, e.g. weight systems with weight selecting means for bar-bells or dumb-bells}]
21/078 . . . Devices for bench press exercises {, e.g. supports, guiding means}
21/0783 . . . . . . [Safety features for bar-bells, e.g. drop limiting means]
21/08 . . . anchored at one end
21/15 . . . [Arrangements for force transmissions]
21/151 . . . [Using flexible elements for reciprocating movements, e.g. ropes or chains]
21/152 . . . [Bowden-type cables]
21/153 . . . [wound-up and unwound during exercise, e.g. from a reel]
21/154 . . . [using special pulley-assemblies]
21/155 . . . [Cam-shaped pulleys or other non-uniform pulleys, e.g. conical]
21/156 . . . . . . [the position of the pulleys being variable, e.g. for different exercises]
21/157 . . . [Ratchet-wheel links; Overrunning clutches; One-way clutches]
21/158 . . . [Hydraulic transmissions (hydraulic force resistors A63B 21/008)]
21/159 . . . [Using levers for transmitting forces]
21/16 . . . Supports for anchoring force-resisters
21/1609 . . . [for anchoring on a chair (chairs with exercising means A47C 9/002)]
21/1618 . . . [on a door or a door frame]
21/1627 . . . . . . [for anchoring on or between the vertical posts of a door frame]
21/1636 . . . . . . [for anchoring on the horizontal part of a door frame]
21/1645 . . . . . . [for anchoring on a door]
21/1654 . . . . . . [for anchoring between a door and the floor]
21/1655 . . . . . . [for anchoring between a door and the door frame]
21/1672 . . . . . . [for anchoring on beds or mattresses]
21/1681 . . . . . . [for anchoring between horizontal surfaces, e.g. the floor and the ceiling]
21/169 . . . . . . [for anchoring on against a wall]
21/22 . . . Resisting devices with rotary bodies (A63B 21/0608 takes precedence)
21/222 . . . [by overcoming gyroscopic forces, e.g. by turning the spin axis]
Gymnastic exercising apparatus

A63B

21/225 . . . [with flywheels]
21/227 . . . [changing the rotational direction alternately]
21/28 . Devices for two persons operating in opposition (or in cooperation)
21/285 . . . [in cooperation]
21/40 . [Interfaces with the user related to strength training; Details thereof]
21/4001 . . . [Arrangements for attaching the exercising apparatus to the user’s body, e.g. belts, shoes or gloves specially adapted thereto (weights worn on the user’s body A63B 21/065; exoskeletons in general B25J 9/0006, for aiding patients or disabled persons to walk about A61H 3/000)]
21/4003 . . . [to the head; to the neck]
21/4005 . . . [to the shoulder]
21/4007 . . . [to the chest region, e.g. to the back chest]
21/4009 . . . [to the waist]
21/4011 . . . [to the lower limbs (means for physically limiting movements of body parts A63B 69/0057)]
21/4013 . . . [to the ankle]
21/4015 . . . [to the foot]
21/4017 . . . [to the upper limbs]
21/4019 . . . [to the hand]
21/4021 . . . [to the wrist]
21/4023 . . . [the user operating the resistance directly, without additional interface (A63B 21/072 takes precedence)]
21/4025 . . . [Resistance devices worn on the user’s body (A63B 21/065 takes precedence)]
21/4027 . . . [Specific exercise interfaces (chairs or stools with exercising means A47C 9/002)]
21/4029 . . . [Benches specifically adapted for exercising (for bench press exercises A63B 21/078)]
21/4031 . . . [with parts of the bench moving against a resistance during exercise]
21/4033 . . . [Handles, pedals, bars or platforms]
21/4034 . . . [for operation by feet]
21/4035 . . . [for operation by hand]
21/4037 . . . [Exercise mats for personal use, with or without hand-grips or foot-grips, e.g. for Yoga or supine floor exercises (mats for absorbing shocks A63B 6/000)]
21/4039 . . . [contoured to fit to specific body parts, e.g. back, knee or neck support (arrangements for attaching exercising apparatus to the user’s body A63B 21/4001; handles, pedals, bars or platforms A63B 21/4033)]
21/4041 . . . [characterised by the movements of the interface]
21/4043 . . . [Free movement, i.e. the only restriction coming from the resistance (A63B 21/0043, A63B 21/072 take precedence)]
21/4045 . . . [Reciprocating movement along, in or on a guide (weights moving along in guiding means A63B 21/06; for cardio-training A63B 22/201)]
21/4047 . . . [Pivoting movement (weight pivoting A63B 21/0615)]
21/4049 . . . [Rotational movement]

22/00 Exercising apparatus specially adapted for conditioning the cardio-vascular system, for training agility or co-ordination of movements (force-resisting aspects A63B 21/000; [for particular parts of the body, e.g. to strengthen particular limbs or muscles A63B 23/000; ] electric or electronic controls therefor A63B 24/000)

NOTE
In this subclass, multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of its groups, which is considered to represent information of interest for search, may also be classified in each of those groups.

22/0002 . . . [involving an exercising of arms (for strengthening the upper limbs A63B 23/12)]
22/0005 . . . [with particular movement of the arms provided by handles moving otherwise than pivoting about a horizontal axis parallel to the body-symmetrical-plane]
22/0007 . . . [by alternatively exercising arms or legs, e.g. with a single set of support elements driven either by the upper or the lower limbs]
22/001 . . . [by simultaneously exercising arms and legs, e.g. diagonally in anti-phase (A63B 22/0076 takes precedence)]
22/0012 . . . [the exercises for arms and legs being functionally independent]
22/0015 . . . [with an adjustable movement path of the support elements]
22/0017 . . . [the adjustment being controlled by movement of the user]
22/002 . . . [electronically, e.g. by using a program]
22/0023 . . . [the inclination of the main axis of the movement path being adjustable, e.g. the inclination of an endless band]
22/0025 . . . [Particular aspects relating to the orientation of movement paths of the limbs relative to the body; Relative relationship between the movements of the limbs]
22/0028 . . . [the movement path being non-parallel to the body-symmetrical-plane, e.g. support elements moving at an angle to the body-symmetrical-plane]
22/003 . . . [the movement path being perpendicular to the body-symmetrical-plane]
22/0033 . . . [Lower limbs performing together the same movement, e.g. on a single support element]
22/0035 . . . [Upper limbs performing together the same movement, e.g. on a single support element]
22/0038 . . . [One foot moving independently from the other, i.e. there is no link between the movements of the feet]
22/0041 . . . [one hand moving independently from the other hand, i.e. there is no link between the movements of the hands]
22/0043 . . . [the movements of the limbs of one body half being synchronised, e.g. the left arm moving in the same direction as the left leg]
Gymnastic exercising apparatus

A63B 22/0046 . . . [Details of the support elements or their connection to the exercising apparatus, e.g. adjustment of size or orientation (attachments of resisters or weights to the body of the user A63B 21/4001; using rollers, wheels, castors or gliding means to be moved over the floor or guide tracks A63B 22/20)]

22/0048 . . . [with cantilevered support elements pivoting about an axis (A63B 22/0076 takes precedence)]

2022/0051 . . . [the support elements being supported at a substantial distance below their axis, e.g. the axis for the foot support elements are arranged at hip height]

2022/0053 . . . [each support element being cantilevered by a parallelogram system]

22/0056 . . . [the pivoting movement being in a vertical plane, e.g. steppers with a horizontal axis (platforms for rocking motion about a horizontal axis A63B 22/16)]

22/0058 . . . [the vertical plane being the frontal body-plane]

22/0061 . . . [the pivoting movement being in a horizontal plane, e.g. skating movement (platforms for reciprocating rotating motion about a vertical axis A63B 22/14)]

22/0064 . . . [the pivoting movement being in a plane inclined with respect to the horizontal plane, e.g. a step and twist movement]

22/0066 . . . [the support elements movement being downward-inward, i.e. towards the body-symmetrical-plane]

22/0069 . . . [about an axis inclined with respect to the horizontal plane, e.g. steppers with an inclined axis]

2022/0071 . . . [the axis being located behind the user, e.g. for skate training]

2022/0074 . . . [the axis being located in front of the user, e.g. for steppers with twist movement]

22/0076 . . . [Rowing machines for conditioning the cardiovascular system (seats moving during exercise A63B 22/0087; training appliances for rowing or sculling on boats A63B 69/06)]

2022/0079 . . . [with a pulling cable]

2022/0082 . . . [with pivoting handlebars]

2022/0084 . . . [pivoting about a horizontal axis]

22/0087 . . . [with a seat or torso support moving during the exercise, e.g. reformers (A63B 22/0076 takes precedence)]

22/0089 . . . [a counterforce being provided to the support (force-resisting aspects A63B 21/00)]

2022/0092 . . . [for training agility or co-ordination of movements]

2022/0094 . . . [for active rehabilitation, e.g. slow motion devices]

2022/0097 . . . [for avoiding blood stagnations, e.g. Deep Vein Thrombosis [DVT]]

22/02 . . . [with movable endless bands, e.g. treadmills (other training appliances for running on the spot A63B 69/0028)]

22/0207 . . . [having shock absorbing means]

22/0214 . . . [between the belt supporting deck and the frame]

22/0221 . . . [on the frame supporting the rollers]

22/0228 . . . [with variable resilience]

22/0235 . . . [driven by a motor]

22/0242 . . . [with speed variation]

22/025 . . . . . . [electrically, e.g. D.C. motors with variable speed control]

22/0257 . . . . . . [Mechanical systems therefor]

22/0264 . . . . . . [hydraulically]

2022/0271 . . . . . . [omnidirectional]

2022/0278 . . . . . . [with reversible direction of the running surface]

22/0285 . . . . . . [Physical characteristics of the belt, e.g. material, surface, indicia]

22/0292 . . . . . . [separate for each leg, e.g. dual deck]

22/04 . . . . . . with movable [multiple] steps, i.e. more than one step per limb, e.g. steps mounted on endless loops, endless ladders (steppers with cantilevered support elements pivoting about an axis A63B 22/0048)]

22/06 . . . [with support elements performing a] rotating cycling movement, i.e. a closed path movement (support stands for bicycles A63B 69/16; unicycles B62K 1/00)

22/0605 . . . [performing a circular movement, e.g. ergometers]

2022/0611 . . . [Particular details or arrangement of cranks]

2022/0617 . . . [with separate crank axis for each limb, e.g. being separately adjustable or non parallel]

2022/0623 . . . [Cranks of adjustable length]

2022/0629 . . . [each pedal being supported by two or more cranks]

22/0635 . . . [specially adapted for a particular use]

22/0641 . . . [enabling a lateral movement of the exercising apparatus, e.g. for simulating movement on a bicycle]

22/0647 . . . [for cycling in a standing position, i.e. without a seat or support for the trunk]

2022/0652 . . . [for cycling in a recumbent position]

2022/0658 . . . [for cycling with a group of people, e.g. spinning classes]

22/0664 . . . [performing an elliptic movement]

22/0667 . . . [with crank and handles being on opposite sides of the exercising apparatus with respect to the frontal body-plane of the user, e.g. the crank is behind and handles are in front of the user]

22/0676 . . . [with crank and handles being on the same side of the exercising apparatus with respect to the frontal body-plane of the user, e.g. crank and handles are in front of the user]

22/0682 . . . [with support elements being cantilevered, i.e. the elements being supported only on one side without bearing on tracks on the floor below the user]

22/0688 . . . [with cranks being substantially within the horizontal moving range of the support elements, e.g. by using planetary gearings]

2022/0694 . . . [without integral seat, e.g. portable mini ergometers being placed in front of a chair, on a table or on a bed]

22/14 . . . Platforms for reciprocating rotating motion about a vertical axis, e.g. axis through the middle of the platform

22/16 . . . Platforms for rocking motion about a horizontal axis, e.g. axis through the middle of the platform; Balancing drums; Balancing boards or the like (exercising apparatus with cantilevered support elements pivoting about an axis A63B 22/0056; other exercising apparatus for improving balance A63B 26/003)]
Gymnastic exercising apparatus

23/00 Exercising apparatus specially adapted for particular parts of the body

- for the abdomen, the spinal column or the torso (A63B 22/00 takes precedence; force-resisting aspects A63B 21/00); for the purpose of producing inertia or oscillation

- with elements, {i.e. platforms,} having a circulating, [nutation] or rotating movement, generated by oscillating movement of the user, {e.g. platforms wobbling on a centrally arranged spherical support} (hoop exercising apparatus A63B 19/00; eccentric weights put into orbital motion by nutating movement of the user A63B 21/0006; pots rotating or rocking by moving the whole body A63G 23/00)

2023/0185 . . . [specially adapted for using with a single foot or hand]

22/00 . . . using rollers, wheels, castors or the like, {e.g. gliding means,} to be moved over the floor or other surface, {e.g. guide tracks,} during exercising

22/20 . . . [for moving a support element in reciprocating translation, i.e. for sliding back and forth on a guide track]

22/203 . . . [in a horizontal plane]

22/205 . . . [in a substantially vertical plane, e.g. for exercising against gravity (exercising for developing or strengthening the muscles or joints of the body by working against a user's body weight A63B 21/068; with adjustable inclination A63B 22/0023)]

2023/206 . . . [on a curved path]

22/08 . . . [On a track which is itself moving during exercise]

23/06 . . . for stretching exercises]

23/02 . . . for the abdomen, the spinal column or the torso

23/0205 . . . {Abdomen}

23/0211 . . . {moving torso with immobilized lower limbs}

23/0216 . . . {moving lower limbs with immobilized torso}

23/0222 . . . {moving torso and lower limbs}

23/0227 . . . {moving torso or lower limbs laterally, i.e. substantially in the frontal plane}

23/0233 . . . {Muscles of the back, e.g. by an extension of the body against a resistance, reverse crunch}

23/0238 . . . {Spinal column (for the neck A63B 23/025)}

23/0244 . . . {with signalling or indicating means, e.g. of incorrect posture, for deep-breathing exercises}

23/025 . . . for the head or the neck

23/03 . . . for face muscles

23/0232 . . . {for insertion in the mouth}

23/035 . . . for limbs, i.e. upper or lower limbs, e.g. simultaneously

23/03508 . . . {For a single arm or leg, (A63B 21/0726 takes precedence)}

23/03516 . . . {For both arms together or both legs together; Aspects related to the co-ordination between right and left side limbs of a user}

23/03525 . . . {Supports for both feet or both hands performing simultaneously the same movement, e.g. single pedal or single handle (A63B 21/0724 takes precedence)}

23/03553 . . . [With separate means driven by each limb, i.e. performing different movements]

23/03541 . . . [Moving independently from each other (A63B 22/00 takes precedence)]

23/0355 . . . [A single apparatus used for either upper or lower limbs, i.e. with a set of support elements driven either by the upper or the lower limb or limbs]

23/03558 . . . [Compound apparatus having multiple stations allowing an user to exercise different limbs]

23/03566 . . . . . . [the multiple stations having a common resistance device]

23/03575 . . . [Apparatus used for exercising upper and lower limbs simultaneously]

23/03583 . . . . . . [Upper and lower limbs acting simultaneously on the same operating rigid member]

23/03591 . . . . . . [Upper and lower limb moving in phase, i.e. right foot moving in the same direction as the right hand]

23/04 . . . for lower limbs {training appliances for special sports A63B 69/00; for the purpose of producing mechanical power F03G 5/00}

23/0405 . . . [involving a bending of the knee and hip joints simultaneously (A63B 23/0476 takes precedence)]

23/0411 . . . . . . [Squatting exercises]

23/0417 . . . . . . [with guided foot supports moving parallel to the body-symmetrical-plane by translation]

23/0423 . . . . . . [with guided foot supports moving parallel to the body-symmetrical-plane, one end executing a complete circular movement, the other end translating almost linearly, e.g. giving an elliptical movement to the foot]

23/0429 . . . . . . [with guided foot supports moving parallel to the body-symmetrical-plane by being cantilevered about a horizontal axis]

23/0435 . . . . . . [not used]

23/0441 . . . . . . [cantilevered about two horizontal axes, e.g. parallelogram systems]

23/0447 . . . . . . [the axis being in the body-symmetrical-plane]

23/0452 . . . . . . [the foot support being substantially below said axis]

23/0458 . . . . . . [Step exercisers without moving parts (with movable steps A63B 22/04)]

23/0464 . . . . . . [Walk exercisers without moving parts (with movable endless bands A63B 22/02)]

23/047 . . . . . . [Walking and pulling or pushing a load (for exercising the player ability for rugby or American football A63B 69/345)]

23/0476 . . . . . . [by rotating cycling movement (arrangements on or for real bicycles A63B 69/16)]

**WARNING**

Gymnastic exercising apparatus A63B 23/0476 is no longer used for classification. Documents are in the process of being reorganised to group A63B 22/06

23/0482 . . . . . . [primarily by articulating the hip joints (A63B 23/0211, A63B 23/0405, A63B 23/0476 take precedence)]

23/0488 . . . . . . [by spreading the legs]

23/0494 . . . . . . [primarily by articulating the knee joints (A63B 23/0405, A63B 23/0476 take precedence)]
Gymnastic exercising apparatus

23/08 . . . . . . for ankle joints
23/085 . . . . . . [by rotational movement of the joint in a plane substantially parallel to the body-symmetrical-plane]
23/10 . . . . . . for feet or toes
23/12 . . . . . . for upper limbs {or related muscles, e.g. chest, upper back or shoulder muscles (bench press exercises A63B 21/078; for teaching music G09B 15/006)}
23/1209 . . . . [Involving a bending of elbow and shoulder joints simultaneously]
23/1218 . . . . [Chinning, pull-up, i.e. concentric movement]
23/1227 . . . . [Dips, i.e. push-ups in a vertical position, i.e. eccentric movement, e.g. between parallel bars]
23/1236 . . . . [Push-ups in horizontal position, i.e. eccentric movement]
23/1245 . . . . [Primarily by articulating the shoulder joint (A63B 23/129 takes precedence)]
23/1254 . . . . [Rotation about an axis parallel to the longitudinal axis of the body, e.g. butterfly-type exercises]
23/1263 . . . . [Rotation about an axis passing through both shoulders, e.g. cross-country skiing-type arm movements]
23/1272 . . . . [Rotation around an axis perpendicular to the frontal body-plane of the user, i.e. moving the arms in the plane of the body, to and from the sides of the body]
23/1281 . . . . [primarily by articulating the elbow joint]
23/129 . . . . . . for arm wrestling
23/14 . . . . . . for wrist joints
23/16 . . . . . . for hands or fingers {(for teaching typing G09B 13/00)}
23/18 . . . . . . for improving respiratory function
23/185 . . . . . . {Rhythm indicators}
23/20 . . . . . . for vaginal muscles {or other sphincter-type muscles}
24/00 Electric or electronic controls for exercising apparatus of preceding groups; {Controlling or monitoring of exercises, sportive games, training or athletic performances}
24/0003 . . . . {Analysing the course of a movement or motion sequences during an exercise or trainings sequence, e.g. swing for golf or tennis}
24/0006 . . . . {Computerised comparison for qualitative assessment of motion sequences or the course of a movement}
24/0009 . . . . . . [Computerised real time comparison with previous movements or motion sequences of the user]
24/0012 . . . . . . [Comparing movements or motion sequences with a registered reference]
24/0015 . . . . . . [Comparing movements or motion sequences with computerised simulations of movements or motion sequences, e.g. for generating an ideal template as reference to be achieved by the user]
24/0018 . . . . . . [using non electronic means]
24/0021 . . . . . . [Tracking a path or terminating locations]
24/0025 . . . . . . [Tracking the path or location of one or more users, e.g. players of a game]
2024/0028 . . . . [Tracking the path of an object, e.g. a ball inside a soccer pitch]
2024/0031 . . . . [at the starting point]
2024/0034 . . . . [during flight]
2024/0037 . . . . [on a target surface or at impact on the ground]
2024/004 . . . . . . [Multiple detectors or sensors each defining a different zone]
2024/0043 . . . . [Systems for locating the point of impact on a specific surface]
2024/0046 . . . . [Mechanical means for locating the point of impact or entry]
2024/005 . . . . . . [Keeping track of the point of impact or entry]
2024/0053 . . . . [for locating an object, e.g. a lost ball]
2024/0056 . . . . [for statistical or strategic analysis]
24/0059 . . . . . . [Exercising apparatus with reward systems]
24/0062 . . . . . . [Monitoring athletic performances, e.g. for determining the work of a user on an exercise apparatus, the completed jogging or cycling distance]
2024/0065 . . . . [Evaluating the fitness, e.g. fitness level or fitness index]
2024/0068 . . . . [Comparison to target or threshold, previous performance or not real time comparison to other individuals]
2024/0071 . . . . . . [Distinction between different activities, movements, or kind of sports performed]
24/0075 . . . . . . [Means for generating exercise programs or schemes, e.g. computerized virtual trainer, e.g. using expert databases]
2024/0078 . . . . [Exercise efforts programmed as a function of time]
2024/0081 . . . . [Coaching or training aspects related to a group of users]
24/0084 . . . . . . [Exercising apparatus with means for competitions, e.g. virtual races]
24/0087 . . . . . . [Electric or electronic controls for exercising apparatus of groups A63B 21/00 - A63B 23/00, e.g. controlling load]
2024/009 . . . . . . [the load of the exercise apparatus being controlled in synchronism with visualising systems, e.g. hill slope]
2024/0093 . . . . . . [the load of the exercise apparatus being controlled by performance parameters, e.g. distance or speed]
2024/0096 . . . . . . [using performance related parameters for controlling electronic or video games or avatars]

25/00 Stilts or the like
25/02 . . . . . . Elastic stilts { (devices for balloon jumping A63B 5/166) }
25/04 . . . . . . with wheels
25/06 . . . . . . Shoes formed with stilts to elongate the step
25/08 . . . . . . Hopping-sticks, e.g. pogo sticks { (Hopping apparatus with a single resilient support (devices for balloon jumping A63B 5/166) )}
25/10 . . . . . . Elastic bouncing shoes fastened to the foot

26/00 Exercising apparatus not covered by groups A63B 1/00 - A63B 25/00
26/003 . . . . . . {for improving balance or equilibrium (balance beams A63B 4/00; apparatus for rope dancing A63B 7/08; balancing drums, balancing boards or the like A63B 22/16) }
Gymnastic exercising apparatus  

A63B

CPC - 2020.08  

33/002  . . (Swimming goggles)

WARNING

Group A63B 33/002 is impacted by reclassification into groups A63B 33/004, A63B 33/006, and A63B 33/008.

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

33/006  . . (with means allowing adjustment of the bridge)

WARNING

Group A63B 33/006 is incomplete pending reclassification of documents from group A63B 33/002.

Groups A63B 33/002 and A63B 33/006 should be considered in order to perform a complete search.

35/00 Swimming framework with driving mechanisms operated by the swimmer or by a motor (other vessels or like floating structures for pleasure or sport B63B 32/00, B63B 34/00; divers' sleds or like craft B63C 11/46)

NOTE

References listed below indicate CPC places which could also be of interest when carrying out a search in respect of the subject matter covered by the preceding group:

Effecting propulsion of vessels by muscle power  B63H 16/00

35/02  . shaped like a fish tail
35/04  . with paddle wheels
35/06  . with twin-bladed paddles or buoyant members
35/08  . with propeller propulsion
35/10  . operated by the swimmer
35/12  . operated by a motor
35/125  . . (the motor being driven by compressed air carried by the swimmer)
37/00 Solid balls; (Rigid hollow balls; ) Marbles (heavy throwing balls A63B 65/06)

37/0001 [Balls with finger holes, e.g. for bowling]
37/0002 [Arrangements for adjusting, improving or measuring the grip, i.e. location, size, orientation or the like of finger holes]
37/0003 [Golf balls]
37/0004 [Surface depressions or protrusions]

WARNING
Group A63B 37/0004 is impacted by reclassification into group A63B 37/00215.
Groups A63B 37/0004, A63B 37/0021, and A63B 37/00215 should be considered in order to perform a complete search.

37/0005 [Protrusions]
37/0006 [Arrangement or layout of dimples]

WARNING
Group A63B 37/0006 is impacted by reclassification into group A63B 37/00065.
Groups A63B 37/0006 and A63B 37/00065 should be considered in order to perform a complete search.

37/00065 [located around the pole or the equator]

WARNING
Group A63B 37/00065 is incomplete pending reclassification of documents from group A63B 37/0006.
Groups A63B 37/0006 and A63B 37/00065 should be considered in order to perform a complete search.

37/0007 [Non-circular dimples]
37/0008 [Elliptical]
37/0009 [Polygonal]
37/001 [Annular]
37/0011 [Grooves or lines]
37/0012 [Dimple profile, i.e. cross-sectional view]
37/0013 [The dimple being formed in both the cover and the underlying layer]
37/0015 [with sub-dimples formed within main dimples]
37/0016 [Specified individual dimple volume]
37/0017 [Specified total dimple volume]
37/0018 [Specified number of dimples]
37/0019 [Specified dimple depth]
37/002 [Specified dimple diameter]
37/0021 [Occupation ratio, i.e. percentage surface occupied by dimples]

WARNING
Group A63B 37/0021 is impacted by reclassification into group A63B 37/00215.
Groups A63B 37/0021 and A63B 37/00215 should be considered in order to perform a complete search.

37/002 [Materials other than ionomers or polyurethane]
37/0025 [Gutta-percha]
37/0026 [Balata]
37/0027 [Polyurea]
37/0029 [Physical properties]
37/003 [Coefficient of restitution]

WARNING
Group A63B 37/0021 is impacted by reclassification into groups A63B 37/0004 and A63B 37/0021.
Groups A63B 37/0004, A63B 37/0021, and A63B 37/00215 should be considered in order to perform a complete search.

37/0022 [Coatings, e.g. paint films; Markings]

WARNING
Group A63B 37/0022 is incomplete pending reclassification of documents from groups A63B 37/00221, A63B 37/00222, and A63B 37/00223.
All groups listed in this Warning should be considered in order to perform a complete search.

37/00221 [characterised by the material]

WARNING
Group A63B 37/00221 is incomplete pending reclassification of documents from group A63B 37/0022.
Groups A63B 37/0022 and A63B 37/00221 should be considered in order to perform a complete search.

37/00222 [Physical properties, e.g. hardness]

WARNING
Group A63B 37/00222 is incomplete pending reclassification of documents from group A63B 37/0022.
Groups A63B 37/0022 and A63B 37/00222 should be considered in order to perform a complete search.

37/0023 [Colour tone]

WARNING
Group A63B 37/0023 is incomplete pending reclassification of documents from group A63B 37/0022.
Groups A63B 37/0022 and A63B 37/00223 should be considered in order to perform a complete search.

37/002 [Covers]

WARNING
Group A63B 37/0023 is impacted by reclassification into groups A63B 37/00037 and A63B 37/00376.
Groups A63B 37/0023, A63B 37/00373, and A63B 37/00376 should be considered in order to perform a complete search.

37/0024 [Materials other than ionomers or polyurethane]
WARNING

Group A63B 37/00376 is incomplete pending reclassification of documents from group A63B 37/0023.

Groups A63B 37/0023 and A63B 37/00376 should be considered in order to perform a complete search.

37/00376 . . . . [Transparency or semitransparency]

WARNING

Group A63B 37/00376 is incomplete pending reclassification of documents from group A63B 37/0023.

Groups A63B 37/0023 and A63B 37/00376 should be considered in order to perform a complete search.

37/0038 . . . . [Intermediate layers, e.g. inner cover, outer core, mantle]

WARNING

Group A63B 37/0038 is impacted by reclassification into group A63B 37/00495.

Groups A63B 37/0038 and A63B 37/00495 should be considered in order to perform a complete search.

37/0039 . . . . [characterised by the material]
37/004 . . . . . . [Physical properties]
37/0041 . . . . . . [Coefficient of restitution]
37/0043 . . . . . . [Hardness]
37/0044 . . . . . . [Hardness gradient]
37/0045 . . . . . . [Thickness]
37/0046 . . . . . . [Deflection or compression]
37/0047 . . . . . . [Density; Specific gravity]
37/0048 . . . . . . [Melt flow rate [MFR]]
37/0049 . . . . . . [Flexural modulus; Bending stiffness]
37/00495 . . . . [Colour tone]

WARNING

Group A63B 37/00495 is incomplete pending reclassification of documents from group A63B 37/0038.

Groups A63B 37/0038 and A63B 37/00495 should be considered in order to perform a complete search.

37/005 . . . . [Cores]

WARNING

Group A63B 37/005 is impacted by reclassification into group A63B 37/00691.

Groups A63B 37/005 and A63B 37/00691 should be considered in order to perform a complete search.

37/0051 . . . . [Materials other than polybutadienes; Constructional details]
37/0052 . . . . [Liquid cores]
37/0053 . . . . [Thread wound]
37/0054 . . . . [Substantially rigid, e.g. metal]
37/0055 . . . . [with non-spherical insert(s)]
37/0056 . . . . [Hollow; Gas-filled]
37/0058 . . . . [Polyurethane]
37/0059 . . . . [Ionomer]
37/006 . . . . . . [Physical properties]
37/0061 . . . . . . [Coefficient of restitution]
37/0062 . . . . . . [Hardness]

WARNING

Group A63B 37/0062 is impacted by reclassification into groups A63B 37/00621 and A63B 37/00622.

Groups A63B 37/0062, A63B 37/00621, and A63B 37/00622 should be considered in order to perform a complete search.

37/00621 . . . . [Centre hardness]

WARNING

Group A63B 37/00621 is incomplete pending reclassification of documents from group A63B 37/0062.

Groups A63B 37/0062 and A63B 37/00621 should be considered in order to perform a complete search.

37/00622 . . . . [Surface hardness]

WARNING

Group A63B 37/00622 is incomplete pending reclassification of documents from group A63B 37/0062.

Groups A63B 37/0062 and A63B 37/00622 should be considered in order to perform a complete search.

37/0063 . . . . . . [Hardness gradient]
37/0064 . . . . . . [Diameter]
37/0065 . . . . . . [Deflection or compression]
37/0066 . . . . . . [Density; Specific gravity]
37/0067 . . . . . . [Weight; Mass]
37/0068 . . . . . . [Initial velocity]
37/0069 . . . . . . [Flexural modulus; Bending stiffness]
37/00691 . . . . . . [Colour tone]

WARNING

Group A63B 37/00691 is incomplete pending reclassification of documents from group A63B 37/005.

Groups A63B 37/005 and A63B 37/00691 should be considered in order to perform a complete search.

37/007 . . . . . . [Characteristics of the ball as a whole]
37/0072 . . . . . . [with a specified number of layers]
37/0073 . . . . . . [Solid, i.e. formed of a single piece]
37/0074 . . . . . . [Two piece balls, i.e. cover and core]
37/0075 . . . . . . [Three piece balls, i.e. cover, intermediate layer and core]
Balls

37/0076 . . . . {Multi-piece balls, i.e. having two or more intermediate layers}
37/0077 . . . . {Physical properties}

**WARNING**
Group A63B 37/0077 is impacted by reclassification into groups A63B 37/00773
and A63B 37/00776.

Groups A63B 37/0077, A63B 37/00773, and A63B 37/00776 should be considered in order to perform a complete search.

37/0073 . . . . {Moment of inertia}

**WARNING**
Group A63B 37/0073 is incomplete pending reclassification of documents from group A63B 37/0077.

Groups A63B 37/0077 and A63B 37/00773 should be considered in order to perform a complete search.

37/0076 . . . . {Slab hardness}

**WARNING**
Group A63B 37/0076 is incomplete pending reclassification of documents from group A63B 37/0077.

Groups A63B 37/0077 and A63B 37/00776 should be considered in order to perform a complete search.

37/0078 . . . . {Coefficient of restitution}
37/008 . . . . {Diameter}
37/0082 . . . . {Density: Specific gravity}
37/0083 . . . . {Weight; Mass}
37/0084 . . . . {Initial velocity}
37/0086 . . . . {Flexural modulus; Bending stiffness}
37/0087 . . . . {Deflection or compression}
37/0088 . . . . {Frequency}
37/0089 . . . . {Coefficient of drag}
37/009 . . . . {Coefficient of lift}
37/0091 . . . . {Density distribution amongst the different ball layers}
37/0092 . . . . {Hardness distribution amongst different ball layers}

**WARNING**
Group A63B 37/0092 is impacted by reclassification into groups A63B 37/00921 and A63B 37/00922.

Groups A63B 37/0092, A63B 37/00921, and A63B 37/00922 should be considered in order to perform a complete search.

37/00921 . . . . {whereby hardness of the cover is higher than hardness of the intermediate layers}

**WARNING**
Group A63B 37/00921 is incomplete pending reclassification of documents from group A63B 37/0092.

Groups A63B 37/0092 and A63B 37/00921 should be considered in order to perform a complete search.

37/00922 . . . . {whereby hardness of the cover is lower than hardness of the intermediate layers}

**WARNING**
Group A63B 37/00922 is incomplete pending reclassification of documents from group A63B 37/0092.

Groups A63B 37/0092 and A63B 37/00922 should be considered in order to perform a complete search.

37/0093 . . . . {Moisture vapour transmission rate [MVTR]}
37/0094 . . . . {Rebound resilience}
37/0095 . . . . {Scuff resistance}
37/0096 . . . . {Spin rate}
37/0097 . . . . {Layers interlocking by means of protrusions or inserts, lattices or the like}
37/0098 . . . . {Rigid hollow balls, e.g. for pétanque}
37/02 . . . . {Special cores {balls with finger holes A63B 37/0001, golf ball cores A63B 37/005}}
37/04 . . . . {Rigid cores}
37/06 . . . . {Elastic cores}
2037/065 . . . . {Foam}
37/08 . . . . {Liquid cores; Plastic cores}
2037/082 . . . . {Granular, e.g. comprising beads}
2037/085 . . . . {liquid, jellylike}
2037/087 . . . . {Wound cores or layers}
37/10 . . . . {with eccentric centre of gravity}
37/12 . . . . {Special coverings {i.e. outer layer material (balls with finger holes A63B 37/0001, golf ball covers A63B 37/0023)}}
2037/125 . . . . {stitchings}
37/14 . . . . {Special surfaces {((A63B 37/0004 takes precedence)}}

39/00 Hollow non-inflatable balls {i.e. having no valves (rigid balls A63B 37/000)}
2039/003 . . . . {substantially hollow and pressureless}
2039/006 . . . . {pressurised}
39/02 . . . . {Arrangements for maintaining the pressure}
2039/0022 . . . . {using special gas-impermeable layers}
39/025 . . . . {using containers with pressurising means for balls not in use}
39/027 . . . . {using special inflation gases}
39/04 . . . . {Pricking-balls; {Tools for blowing them up}}
39/06 . . . . {Special coverings}
39/08 . . . . {made of two halves}

41/00 Hollow inflatable balls

**WARNING**
Group A63B 41/00 is impacted by reclassification into group A63B 41/125.

Groups A63B 41/00 and A63B 41/125 should be considered in order to perform a complete search.

2041/005 . . . . {with counterweight for adjusting the centre of gravity}
41/02 . . . . {Bladders}
41/04 . . . . {Closures therefor}
41/08 . . . . {Ball covers; Closures therefor}
41/085 . . . . {Closures}
41/10 . . . . {Blader and cover united}
41/12 . Tools or devices for blowing up or closing balls [for pricking-balls A63B 39/04]

41/125 . [Large inflatable balls primarily used as body supports for exercising, e.g. balancing]

**WARNING**

Group A63B 41/125 is incomplete pending reclassification of documents from group A63B 41/00.

Groups A63B 41/00 and A63B 41/125 should be considered in order to perform a complete search.

43/00 **Balls with special arrangements**

2043/001 . [Short-distance or low-velocity balls for training, or for playing on a reduced area]

43/002 . [with special configuration, e.g. non-spherical (discs for throwing A63B 65/10)]

43/004 . [electrically conductive, e.g. for automatic arbitration]

43/005 . [with adhesive type surfaces, e.g. hook-and-loop type fastener]

43/007 . [Arrangements on balls for connecting lines or cords]

43/008 . [with means for improving visibility, e.g. special markings or colours (illuminating or reflecting means A63B 43/06)]

43/02 . with a handle

43/04 . with an eccentric centre of gravity; with mechanism for changing the centre of gravity (solid balls A63B 37/10)

43/06 . with illuminating devices [: with reflective surfaces]

45/00 **Apparatus or methods for manufacturing balls**

(working of plastics or substances in a plastic state B29)

45/02 . Marking of balls

47/00 **Devices for handling or treating balls**, e.g. for holding or carrying balls

**WARNING**

Group A63B 47/00 is impacted by reclassification into group A63B 57/20.

Groups A63B 47/00 and A63B 57/20 should be considered in order to perform a complete search.

47/001 . [Ball holders attached to the player's body (golfing accessories, e.g. holders A63B 57/20)]

**WARNING**

Group A63B 47/001 is impacted by reclassification into groups A63B 57/20.

Groups A63B 47/001 and A63B 57/20 should be considered in order to perform a complete search.

47/002 . [ Devices for dispensing balls, e.g. from a reservoir (automatic teeing devices A63B 57/0006; devices for projecting balls A63B 69/40)]

2047/004 . [having means preventing bridge formation during dispensing]

47/005 . [Ball heating devices]

47/007 . [Devices for carrying, stacking or transporting bowling balls]

47/008 . [Devices for measuring or verifying ball characteristics]

47/02 . for picking-up, [collecting]

47/021 . [for picking-up automatically, e.g. by apparatus moving over the playing surface]

2047/022 . . [Autonomous machines which find their own way around the playing surface]

47/024 . [for collecting by using a sweeping means moving across the playing surface]

47/025 . [Installations continuously collecting balls from the playing areas, e.g. by gravity, with conveyor belts]

2047/027 . . [Hydraulic ball transport]

2047/028 . . [pneumatic ball transport]

47/04 . for cleaning balls (apparatus for cleaning balls, as accessories for bowling- or table alleys A63D 5/10)

2047/043 . . [with drying means]

2047/046 . . [Motorised]

**Rackets, bats, or other accessories for ball games**

49/00 **Stringed rackets, e.g. for tennis** (strings therefor A63B 51/00)

**NOTES**

1. When classifying in groups A63B 49/00 - A63B 60/00, it is desirable to add the indexing codes of group A63B 2102/00.

2. When classifying in groups A63B 49/00, A63B 53/00 or A63B 59/00, subject matter related to details or accessories of golf clubs, bats, rackets or the like are further classified in group A63B 60/00.

**WARNING**

Group A63B 49/00 is impacted by reclassification into groups A63B 31/00, A63B 60/00, A63B 60/46, A63B 2102/00, A63B 2102/10, A63B 2102/12, A63B 2102/26, A63B 2102/28, and A63B 2102/38.

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

49/02 . Frames

**WARNING**

Group A63B 49/02 is impacted by reclassification into groups A63B 32/00, A63B 49/02, A63B 49/025, A63B 49/028, A63B 49/03, A63B 49/032, A63B 49/035, A63B 49/038, A63B 60/00 and A63B 60/46.

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

2049/0201 . . [with defined head dimensions]

2049/0202 . . [surface area]

2049/0203 . . [height]

2049/0204 . . [width]

2049/0205 . . [comprising at least two similar parts assembled with the interface plane parallel to the string plane]

2049/0207 . . [with defined overall length]

2049/0211 . . [with variable thickness of the head in a direction perpendicular to the string plane]

2049/0212 . . [with defined weight]
Rackets, bats, or other accessories for ball games

2049/0213 . . . [without strings]
2049/0214 . . . [head only]
2049/0217 . . . [with variable thickness of the head in the string plane]

**WARNING**

Groups A63B 49/022 - A63B 49/038 are incomplete pending reclassification of documents from group A63B 49/02.

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

49/022 . . . String guides on frames, e.g. grommets
49/025 . . . Means on frames for clamping string ends
49/028 . . . Means for achieving greater mobility of the string bed
49/03 . . . characterised by throat sections, i.e. sections or elements between the head and the shaft
49/032 . . . T-shaped connection elements
2049/0325 . . . [with two legs having mutually different constructions]
49/035 . . . with easily dismountable parts, e.g. heads, shafts or grips
49/038 . . . with head subframes for replacing strings
49/08 . . . with special construction of the handle

**WARNING**

Group A63B 49/08 is impacted by reclassification into groups A63B 60/00 and A63B 60/46.

Groups A63B 49/12, A63B 60/00, and A63B 60/46 should be considered in order to perform a complete search.

49/12 . . . made of metal

**WARNING**

Group A63B 49/12 is impacted by reclassification into groups A63B 60/00 and A63B 60/46.

Groups A63B 49/12, A63B 60/00, and A63B 60/46 should be considered in order to perform a complete search.

49/14 . . . Protection devices on the frame

**WARNING**

Group A63B 49/14 is impacted by reclassification into groups A63B 60/00 and A63B 60/46.

Groups A63B 49/14, A63B 60/00, and A63B 60/46 should be considered in order to perform a complete search.

51/00 Stringing tennis, badminton or like rackets; Strings therefor; Maintenance of racket strings

**WARNING**

Group A63B 51/00 is incomplete pending reclassification of documents from group A63B 49/00.

Group A63B 49/00 should be considered in order to perform a complete search.

51/001 . . . [using strings made of different materials on the same frame, e.g. gut and nylon]
51/002 . . . [using strings with different cross-sections on the same frame, e.g. with different thickness]
51/004 . . . [using strings with different tension on the same frame]
51/005 . . . Devices for measuring the tension of strings (for controlling the tension during stringing A63B 51/14)
51/01 . . . Pre-woven string-sets ready for insertion into a frame
51/015 . . . String-aligning tools
51/02 . . . Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear
51/023 . . . [Strings having characteristics varying along the length of the string, e.g. diameter or elasticity]
51/026 . . . [Strings having non-circular cross-section]
51/04 . . . Sheet-like structures used as substitutes
51/045 . . . [Wooden blades with perforations]
51/06 . . . Double-sided stringing
51/08 . . . Diagonal stringing
51/10 . . . Reinforcements for stringing
51/11 . . . Intermediate members for the cross-points of the strings
51/12 . . . Devices arranged in or on the racket for adjusting the tension of the strings
51/14 . . . Arrangements for stringing, e.g. for controlling the tension of the strings during stringing

**WARNING**

Group A63B 51/14 is impacted by reclassification into group A63B 51/16.

Groups A63B 51/14 and A63B 51/16 should be considered in order to perform a complete search.
51/143 . . [Hand-held string-tensioning devices]
51/146 . . [Devices simultaneously raising and lowering alternate longitudinal strings previously mounted in a frame, to facilitate the threading of the cross strings]
51/16 . . Apparatus for stringing while manufacturing

**WARNING**

Group A63B 51/16 is incomplete pending reclassification of documents from group A63B 51/14.
Groups A63B 51/14 and A63B 51/16 should be considered in order to perform a complete search.

53/00 Golf clubs

**NOTE**

When classifying in group A63B 53/00 and subgroups, subject matter related to details or accessories of golf clubs, bats, rackets or the like are further classified in group A63B 60/00.

**WARNING**

Group A63B 53/00 is impacted by reclassification into groups A63B 60/00 and A63B 60/46.
Groups A63B 53/00 and A63B 60/00, A63B 60/46 should be considered in order to perform a complete search.

53/002 . . {Clubs made of composite, plastics or rubber materials, with integral head and shaft}
53/005 . . {Club sets}
53/007 . . {Putters}
53/02 . . Joint structures between the head and the shaft

**WARNING**

Group A63B 53/02 is impacted by reclassification into groups A63B 60/00 and A63B 60/46.
Groups A63B 53/02, A63B 60/00, and A63B 60/46 should be considered in order to perform a complete search.

53/021 . . [the shaft axis being forwardly offset relative to the striking face of the head]
53/022 . . [allowing adjustable positioning of the head with respect to the shaft]
53/023 . . . [adjustable angular orientation]
53/025 . . . . {lie angle only, i.e. relative angular adjustment between the shaft and the club head about an axis parallel to the intended line of play when the club is in its normal address position}
53/026 . . . . {loft angle only, i.e. relative angular adjustment between the shaft and the club head about a horizontal axis perpendicular to the intended line of play when the club is in its normal address position}
53/027 . . . . {about the longitudinal axis of the shaft only}
53/028 . . . . {with a range of alternative attachment points for the shaft}

53/04 . . Heads

**WARNING**

Group A63B 53/04 is impacted by reclassification into groups A63B 60/00 and A63B 60/46.
Groups A63B 53/04, A63B 60/00, and A63B 60/46 should be considered in order to perform a complete search.

53/0408 . . [characterised by specific dimensions, e.g. thickness]
53/0412 . . . [Volume]
53/0416 . . . {Heads having an impact surface provided by a face insert}
53/042 . . . . {the face insert consisting of a material different from that of the head}
53/0425 . . . . {the face insert comprising two or more different materials}
53/0429 . . . . {the face insert comprising two or more layers of material}
53/0433 . . . . {with special sole configurations}
53/0437 . . . . {with special crown configurations}
53/0441 . . . {with visual indicators for aligning the golf club}
53/0445 . . . {Details of grooves or the like on the impact surface}
53/045 . . . [Strengthening ribs]
53/0454 . . . . {Strengthening ribs on the rear surface of the impact face plate}
53/0458 . . . . {with non-uniform thickness of the impact face plate}
53/0462 . . . . {characterised by tapering thickness of the impact face plate}
53/0466 . . . . {wood-type}
53/047 . . . . . {iron-type}
53/0475 . . . . . {with one or more enclosed cavities}
53/0487 . . . {for putters (A63B 53/065 takes precedence)}
53/0491 . . . . {with added weights, e.g. changeable, replaceable}

**WARNING**

Group A63B 2053/0491 is impacted by reclassification into group A63B 60/02.
Groups A63B 2053/0491 and A63B 60/02 should be considered in order to perform a complete search.

53/0495 . . . . . {moving on impact, slidable, spring or otherwise elastically biased}
53/06 . . . . . . adjustable

**WARNING**

Group A63B 53/06 is impacted by reclassification into groups A63B 60/00 and A63B 60/46.
Groups A63B 53/06, A63B 60/00, and A63B 60/46 should be considered in order to perform a complete search.

53/065 . . . . . {for putters}
53/08  . with special arrangements for obtaining a variable impact

**WARNING**

Group A63B 53/08 is impacted by reclassification into groups A63B 60/00, A63B 60/46.
Groups A63B 53/08 and A63B 60/00 should be considered in order to perform a complete search.

53/10  . Non-metallic shafts

**WARNING**

Group A63B 53/10 is impacted by reclassification into groups A63B 60/00 and A63B 60/46.
Groups A63B 53/10, A63B 60/00, and A63B 60/46 should be considered in order to perform a complete search.

53/12  . Metallic shafts

**WARNING**

Group A63B 53/12 is impacted by reclassification into groups A63B 60/00 and A63B 60/46.
Groups A63B 53/12, A63B 60/00, and A63B 60/46 should be considered in order to perform a complete search.

53/14  . Handles

**WARNING**

Group A63B 53/14 is impacted by reclassification into groups A63B 60/00 and A63B 60/46.
Groups A63B 53/14, A63B 60/00, and A63B 60/46 should be considered in order to perform a complete search.

55/00  Bags for golf clubs; Stands for golf clubs for use on the course; Wheeled carriers specially adapted for golf bags

**WARNING**

Group A63B 55/00 is impacted by reclassification into groups A63B 55/30, A63B 55/40, A63B 60/60, and A63B 60/64.
All groups listed in this Warning should be considered in order to perform a complete search.

55/10  . Stands for golf clubs [ , e.g. ] for use on the course [ ; Golf club holders, racks or presses ]

55/20  . with special receptacles for the balls

55/30  . Bags with wheels

**WARNING**

Group A63B 55/30 is incomplete pending reclassification of documents from group A63B 55/00.
Group A63B 55/00 should be considered in order to perform a complete search.

55/40  . Bags with partitions or club holders

**WARNING**

Group A63B 55/40 is incomplete pending reclassification of documents from group A63B 55/00.
Group A63B 55/00 should be considered in order to perform a complete search.

2055/402  . { Warning devices for indicating missing golf clubs }

2055/403  . { Security means for locking golf clubs in the bag }

55/406  . { releasably attached }

55/408  . { Releasably mounted accessories fitted outside the bag, e.g. straps or holders [ A63B 55/20 and A63B 55/50 take precedence ] }

55/50  . Supports, e.g. with devices for anchoring to the ground

**WARNING**

Group A63B 55/50 is impacted by reclassification into group A63B 55/57.
Groups A63B 55/50 and A63B 55/57 should be considered in order to perform a complete search.

55/53  . . with legs opening automatically upon putting the bag on the ground

**WARNING**

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

55/57  . . Bags with tripod or like set-up stands

**WARNING**

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

55/60  . . Wheeled carriers specially adapted for golf bags

**WARNING**

Group A63B 55/60 is impacted by reclassification into group A63B 55/57.
Groups A63B 55/60 and A63B 55/57 should be considered in order to perform a complete search.

2055/601  . . { Caddies fitted with means for sitting }

2055/602  . . { Means for mounting weather shields, e.g. umbrellas, on caddies }

2055/603  . . { with means for trailing the caddy other than by hand }

2055/604  . . . { by mechanical links attached to the golf players }

2055/605  . . . { by remote control }
Rackets, bats, or other accessories for ball games

55/61 . . [motorised]

**WARNING**
Group A63B 55/61 is impacted by reclassification into group A63B 55/57.
Groups A63B 55/61 and A63B 55/57 should be considered in order to perform a complete search.

2055/615 . . [Units for converting manually-driven golf carts into motorised ones]

57/00 Golfing accessories

**WARNING**
Group A63B 57/00 is impacted by reclassification into groups A63B 57/12, A63B 57/16, A63B 57/20, A63B 57/30, and A63B 57/35.
All groups listed in this Warning should be considered in order to perform a complete search.

57/0006 . . [Automatic teeing devices (devices for automatically dispensing balls in general A63B 47/002)]

57/0012 . . [Devices for forming the tees]

57/0032 . . [Tee-gauges; Tee-repairing devices]

**WARNING**
Group A63B 57/0032 is impacted by reclassification into group A63B 57/203.
Groups A63B 57/0032 and A63B 57/203 should be considered in order to perform a complete search.

57/0037 . . [Devices for inserting or extracting tees]

57/10 Golf tees

**WARNING**
Group A63B 57/10 is impacted by reclassification into groups A63B 57/12, A63B 57/13, A63B 57/16, A63B 57/18, and A63B 57/19.
All groups listed in this Warning should be considered in order to perform a complete search.

57/12 . . attached to straps

**WARNING**
Groups A63B 57/12 is incomplete pending reclassification of documents from groups A63B 57/00 and A63B 57/10.
All groups listed in this Warning should be considered in order to perform a complete search.

57/13 . . foldable or separable

**WARNING**
Group A63B 57/13 is incomplete pending reclassification of documents from group A63B 57/10.
Groups A63B 57/13 and A63B 57/10 should also be considered in order to perform a complete search.

57/15 . . height-adjustable

57/16 . . Brush-type tees

**WARNING**
Group A63B 57/16 is incomplete pending reclassification of documents from groups A63B 57/00 and A63B 57/10.
Groups A63B 57/00 and A63B 57/10 should be considered in order to perform a complete search.

57/18 . . with writing means

**WARNING**
Groups A63B 57/18 is incomplete pending reclassification of documents from group A63B 57/10.
Group A63B 57/10 should be considered in order to perform a complete search.

57/19 . . with direction indicators

**WARNING**
Group A63B 57/19 is incomplete pending reclassification of documents from group A63B 57/10.
Group A63B 57/10 should be considered in order to perform a complete search.

57/20 . . Holders, e.g. of tees or of balls

**WARNING**
Group A63B 57/20 is incomplete pending reclassification of documents from groups A63B 47/00, A63B 47/001, and A63B 57/00.
Group A63B 47/00, A63B 47/001, and A63B 57/00 should be considered in order to perform a complete search.

57/203 . . [Tee holders (to be fitted on golf bags or caddies A63B 55/408)]

**WARNING**
Group A63B 57/203 is impacted by reclassification into groups A63B 57/12, A63B 57/13, A63B 57/16, A63B 57/18, and A63B 57/19.
All groups listed in this Warning should be considered in order to perform a complete search.

57/207 . . [Golf ball position marker holders]

**WARNING**
Group A63B 57/207 is impacted by reclassification into group A63B 57/10, A63B 57/12, A63B 57/13, A63B 57/16, A63B 57/18, and A63B 57/19.
All groups listed in this Warning should be considered in order to perform a complete search.

57/30 . . Markers

**WARNING**
Groups A63B 57/30 and A63B 57/35 are incomplete pending reclassification of documents from group A63B 57/00.
Group A63B 57/00 should be considered in order to perform a complete search.
Rackets, bats, or other accessories for ball games

57/35 . . with magnets
57/353 . . { Golf ball position markers }

**WARNING**
Group A63B 57/353 is impacted by reclassification into group A63B 57/207.
Groups A63B 57/353 and A63B 57/207 should be considered in order to perform a complete search.

57/357 . . { for golf cups or holes, e.g. flags }

**WARNING**
Group A63B 57/357 is impacted by reclassification into group(s) A63B 57/40.
Groups A63B 57/357 and A63B 57/40 should be considered in order to perform a complete search.

57/40 . Golf cups or holes

**WARNING**
Group A63B 57/40 is impacted by reclassification into group A63B 57/357.
Groups A63B 57/40 and A63B 57/357 should be considered in order to perform a complete search.

57/405 . . { Cups with automatic ball ejector means }
57/50 . specially adapted for course maintenance
57/505 . . { Hole information stands, e.g. tee-boxes }
57/60 . Cleaning or maintenance of golf clubs, putters, shoes or other golf accessories ( { cleaning balls A63B 47/04 } devices for cleaning handles or grips of golf clubs or putters A63B 60/36 )

2057/605 . . { Means for heating or drying golf clubs }

59/00 Bats, rackets, or the like, not covered by groups A63B 49/00 - A63B 57/00

**NOTES**
1. In this group, the following term is used with the meaning indicated:
   • “ball” covers also pucks or other objects to be hit during the game.
2. When classifying in group A63B 59/00 and subgroups, subject matter related to details or accessories of golf clubs, bats, rackets or the like are further classified in group A63B 60/00.

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

59/20 . having means, e.g. pockets, netting or adhesive type surfaces, for catching or holding a ball, e.g. for lacrosse or pelota

**WARNING**
Group A63B 59/20 is impacted by reclassification into group(s) A63B 60/00, A63B 60/46.
All groups listed in this Warning should be considered in order to perform a complete search.

59/30 . forming hand-held throwing or catching aids for use with rings, discs, wheels or cylindrical throwing-bodies, or for use with balls having a central bore

59/40 . Rackets or the like with flat striking surfaces for hitting a ball in the air, e.g. for table tennis

**WARNING**
Group A63B 59/40 is impacted by reclassification into groups A63B 59/42, A63B 59/45, A63B 60/00, A63B 60/46, and A63B 2102/16.
All groups listed in this Warning should be considered in order to perform a complete search.

59/42 . . with solid surfaces
59/45 . . . Rubber parts thereof; characterised by bonding between a rubber part and the racket body
59/48 . . with perforated surfaces
59/50 . Substantially rod-shaped bats for hitting a ball in the air, e.g. for baseball

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

59/51 . . made of metal
59/52 . . made of wood or bamboo
59/54 . . made of plastic
59/55 . . with non-circular cross-section
59/56 . . characterised by the head
59/58 . . characterised by the shape ( A63B 59/55, A63B 59/56 take precedence )

2059/581 . . { with a continuously tapered barrel }
59/59 . . with sound generators, e.g. with internal movable members therefor
Rackets, bats, or other accessories for ball games

59/60 . of mallet type, e.g. for croquet (or polo)

WARNING
Group A63B 59/60 is impacted by reclassification into groups A63B 60/00, A63B 60/04, A63B 60/06, A63B 60/08, and A63B 60/10. All groups listed in this Warning should be considered in order to perform a complete search.

59/70 . with bent or angled lower parts for hitting a ball on the ground, on an ice-covered surface, or in the air, e.g. for hockey or hurling

WARNING
Group A63B 59/70 is impacted by reclassification into groups A63B 60/00, A63B 60/04, A63B 60/06, and A63B 60/10. All groups listed in this Warning should be considered in order to perform a complete search.

59/80 . Circular bats or paddles not provided for in groups A63B 59/20 - A63B 59/70

WARNING
Group A63B 59/80 is impacted by reclassification into groups A63B 60/00, and A63B 60/04. All groups listed in this Warning should be considered in order to perform a complete search.

60/00 Details or accessories of golf clubs, bats, rackets or the like

WARNING
Group A63B 60/00 is incomplete pending reclassification of documents from groups A63B 49/00 - A63B 49/14, A63B 53/00 - A63B 53/14, A63B 59/00, A63B 59/20, A63B 59/40 and A63B 59/60 - A63B 59/80.

Groups A63B 59/00, A63B 59/20, A63B 59/40 and A63B 59/60 - A63B 59/80 should also be considered in order to perform a complete search.

60/02 . [Resonance frequency related characteristics]
60/04 . [Striking surfaces coated with high-friction abrasive materials]
60/06 . [Surfaces specially adapted for reducing air resistance]
60/081 . [Substantially flexible shafts; Hinged shafts]
60/085 . [Telescopic shafts]
60/02 . Ballast means for adjusting the centre of mass (A63B 60/24, A63B 60/54 take precedence)

WARNING
Group A63B 60/02 is incomplete pending reclassification of documents from group A63B 60/42 and A63B 2053/0491. All groups listed in this Warning should be considered in order to perform a complete search.

60/04 . Movable ballast means ([A63B 15/005 takes precedence])

WARNING
Group A63B 60/04 is incomplete pending reclassification of documents from group A63B 15/005. Groups A63B 15/005 and A63B 60/04 should be considered in order to perform a complete search.

60/06 . Handles

WARNING
Group A63B 60/06 is impacted by reclassification into groups A63B 60/08 and A63B 60/10. All groups listed in this Warning should be considered in order to perform a complete search.

60/08 . characterised by the material
60/10 . with means for indicating correct holding positions ([A63B 60/12 takes precedence])
60/12 . contoured according to the anatomy of the user's hand

WARNING
Group A63B 60/12 is impacted by reclassification into groups A63B 60/08 and A63B 60/10. All groups listed in this Warning should be considered in order to perform a complete search.

60/14 . Coverings specially adapted for handles, e.g. sleeves or ribbons
60/16 . Caps; Ferrules
60/18 . with means for cooling, ventilating or sweat-reduction, e.g. holes or powder dispensers
60/20 . with two handgrips
60/22 . Adjustable handles
60/24 . Weighted handles
60/26 . with adjustable stiffness
60/28 . with adjustable length
60/30 . with adjustable circumference
60/32 . with means for changing the angular position of the handle about its longitudinal axis
60/34 . with the handle axis different from the main axis of the implement
60/36 . Devices for cleaning handles or grips
60/38 . Structurally associated means for storing and dispensing balls
60/40 . having holding means provided inside, on the edge or on the rear face of the striking surface
60/42 Devices for measuring, verifying, correcting or customising the inherent characteristics of golf clubs, bats, rackets or the like, e.g. measuring the maximum torque a batting shaft can withstand

**WARNING**

Group A63B 60/42 is impacted by reclassification into group A60B 60/02.

Groups A63B 60/42 and A63B 60/02 should be considered in order to perform a complete search.

60/44 . . Presses for strunged rackets

60/46 . . Measurement devices associated with golf clubs, bats, rackets or the like for measuring physical parameters relating to sporting activity, e.g. baseball bats with impact indicators or bracelets for measuring the golf swing

**WARNING**

Group A63B 60/46 is incomplete pending reclassification of documents from groups A63B 49/00 - A63B 49/14, A63B 53/00 - A63B 53/14, A63B 59/20, A63B 59/40 and A63B 59/60 - A63B 59/80.

Groups A63B 49/00 - A63B 49/14, A63B 53/00 - A63B 53/14, A63B 59/20, A63B 59/40 and A63B 59/60 - A63B 59/80 should be considered in order to perform a complete search.

2060/462 . . (Devices measuring hand characteristics to determine correct grip size)

2060/464 . . (Means for indicating or measuring the pressure on the grip)

60/48 . . with corrugated cross-section

60/50 . . with through-holes (A63B 60/18 takes precedence; for stringing purposes A63B 49/00)

60/52 . . with slits

60/54 . . with means for damping vibrations

60/56 . . Devices for protection, storage or transport, e.g. stands or cases

**WARNING**

Group A63B 60/56 is incomplete pending reclassification of documents from group A63B 71/0036.

Groups A63B 71/0036 and A63B 60/56 should be considered in order to perform a complete search.

60/58 . . specially adapted for rackets

60/60 . . specially adapted for bats

**WARNING**

Group A63B 60/60 is incomplete pending reclassification of documents from groups A63B 55/00 and A63B 71/0045.

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

60/62 . . specially adapted for clubs, e.g. head covers (connector means therefor)

60/64 . . . Sheaths for golf clubs

**WARNING**

Group A63B 60/64 is incomplete pending reclassification of documents from group A63B 55/00.

Groups A63B 55/00 and A63B 60/64 should be considered in order to perform a complete search.

61/00 Tennis nets or accessories for tennis or like games

{, e.g. volley-ball (devices for holding or carrying balls A63B 47/00); for table tennis A63B 67/04)

61/003 . . (Nets for tennis or like games or accessories therefor (straining or adjusting devices on the posts A63B 61/02)

61/006 . . . (Accessories for training purposes mounted on the net)

61/02 . . Posts; Revolvably-mounted posts (; Straining or adjusting devices on the posts, e.g. coin- or time operated)

2061/025 . . . (electrically driven)

61/04 . . Straining or adjusting devices for nets {, e.g. centre strainers, single-double adjusters, net height meters (straining or adjusting devices on the posts A63B 61/02)

63/00 Targets or goals for ball games (golf cups A63B 57/40)

2063/001 . . . (Targets or goals with ball-returning means)

2063/002 . . . (variable in size)

63/003 . . . (non-electronic means for locating the point of impact on a target or the point of entry in the goal)

63/004 . . . (Goals of the type used for football, handball, hockey or the like)

2063/005 . . . (having means not protruding from the profile of the post for attachment of a net)

2063/006 . . . (Forming a target or goal by fixing net or target area to garage doorway or garage parts)

63/007 . . . (Target zones without opening defined on a substantially horizontal surface)

63/008 . . . (Goals for rugby or American football)

63/006 . . . (Revolving targets ; Moving targets, e.g. moving or revolving on impact)

2063/065 . . . (movable or switchable between discrete positions, e.g. after a successful shot)

63/08 . . with (substantially) horizontal opening for ball, e.g. for basketball {(A63B 57/40, A63B 63/06 take precedence)}

63/083 . . . (for basketball)

2063/086 . . . (deflectable under excessive loads)

65/00 Implements for throwing (throwing toys A63H 33/18) {; Mechanical projectors, e.g. using spring force)

65/02 . . Spears or the like (: Javelins)

65/04 . . Throwing-hammers

65/06 . . Heavy throwing-balls {, i.e. "medicine balls", shots, weights or stones for putting}

65/08 . . Boomerangs (: Throwing apparatus therefor)

65/10 . . Discus discs; Quoits

65/12 . . Ball-throwing apparatus with or without catchers (hand-held throwing or catching aids A63B 59/20): Mechanical projectors, e.g. using spring force

65/122 . . . (Hand-held mechanical projectors, e.g. for balls)
Rackets, bats, or other accessories for ball games

65/125 . . . {with handles or grips on both sides of the catching-throwing means, for two-handed use}
65/127 . . . {Means for throwing or catching balls, attached to the foot}

67/00 Sporting games or accessories therefor, not provided for in groups A63B 1/00 - A63B 65/00
67/002 . . . {Games using balls, not otherwise provided for}
2067/005 . . . {Games similar to volleyball or basketball and played on trampolines or the like, e.g. "Spaceball" or "Aeroball"}
67/007 . . . {played in water}
67/02 . . . Special golf games, e.g. miniature golf {or golf putting games played on putting tracks; putting practice apparatus having an elongated platform as a putting track}
2067/025 . . . {with incorporated means acting on the track surface for varying its topography, e.g. slope}
67/04 . . . Table games physically beneficial for the human body, modelled on outdoor sports, e.g. table tennis (other table games A63F)
67/045 . . . {Supports for table tennis nets}
67/06 . . . Ring or disc tossing games {, e.g. quoits; Throwing or tossing games, e.g. using balls; Games for manually rolling balls, e.g. marbles}
2067/061 . . . {Means to mark out tossing area}
2067/063 . . . {tossing, e.g. rings or horseshoes around or on, e.g. posts, hooks}
2067/065 . . . {used tossed devices of different sizes giving different degrees of difficulty for fitting in or over a target}
67/066 . . . {using balls on a horizontal playing ground, e.g. petanque}
67/068 . . . {Devices used therewith for measuring distance or difference in distance}
67/08 . . . Juggling or spinning ball games played as games of skill (A63B 67/16 takes precedence)

WARNING
Group A63B 67/08 is impacted by reclassification into groups A63B 67/16 and A63B 67/165.
Groups A63B 67/08, A63B 67/16, and A63B 67/165 should be considered in order to perform a complete search.

67/083 . . . {Juggling games with integral catching or bouncing arrangements}

WARNING
Group A63B 67/083 is impacted by reclassification into groups A63B 67/16 and A63B 67/165.
Groups A63B 67/083, A63B 67/16, and A63B 67/165 should be considered in order to perform a complete search.

67/086 . . . {Juggling games using sticks or discs}

WARNING
Group A63B 67/086 is impacted by reclassification into groups A63B 67/16 and A63B 67/165.
Groups A63B 67/086, A63B 67/16, and A63B 67/165 should be considered in order to perform a complete search.

67/10 . . . Games with thread-suspended or swingably-mounted bodies, e.g. balls, pointed bodies shaped as birds, animals, or the like, for aiming at and hitting targets (games using a bat with a ball tethered thereto A63B 67/20, pin games with tethered balls A63B 7/00) ; Games using tethered bodies, e.g. balls, not otherwise provided for

67/12 . . . Flip games {, i.e. games using playing bodies being flipped or twirled up in the air, e.g. for hitting them with a bat; Games of tip-cat}

67/14 . . . Curling stone; Shuffleboard; Similar sliding games
2067/142 . . . {with braking means}
2067/144 . . . {variable}
2067/146 . . . {Stones with rolling elements}
67/148 . . . {Curling brooms or brushes}
67/16 . . . Diabolos or similar thrown and caught spinning tops; Throwing and catching devices therefor

WARNING
Group A63B 67/16 is incomplete pending reclassification of documents from groups A63B 67/07, A63B 67/083, A63B 67/086, A63B 67/10, A63B 67/10, A63B 67/1, A63B 67/1, A63B 67/1, A63B 67/2, and A63B 67/2.
Group A63B 67/165 is also impacted by reclassification into group A63B 67/165.
All groups listed in this Warning should be considered in order to perform a complete search.

67/165 . . . {the diabolo being able to rotate freely in one direction only, e.g. fitted with an over-running clutch}

WARNING
Group A63B 67/165 is incomplete pending reclassification of documents from groups A63B 67/07, A63B 67/083, A63B 67/086, A63B 67/16, A63B 67/10, A63B 67/1, A63B 67/1, A63B 67/1, A63B 67/1, A63B 67/1, A63B 67/1, A63B 67/1, A63B 67/1, and A63B 67/1.
All groups listed in this Warning should be considered in order to perform a complete search.

67/18 . . . Badminton or similar games with feathered missiles
67/183 . . . Feathered missiles
67/187 . . . Shuttlecocks
67/19 . . . . . with several feathers connected to each other
67/193 . . . . . with all feathers made in one piece
Rackets, bats, or other accessories for ball games

WARNING

Group A63B 69/0057 is impacted by reclassification into group A63B 69/0062.
Groups A63B 69/0057 and A63B 69/0062 should be considered in order to perform a complete search.

69/0059 . . . (worn by the user)
69/0062 . . . [Leg restraining devices]

WARNING

Group A63B 69/0062 is incomplete pending reclassification of documents from group A63B 69/0057.
Groups A63B 69/0057 and A63B 69/0062 should be considered in order to perform a complete search.

69/0064 . . . [Attachments on the trainee preventing falling]
69/0066 . . . [for wind-surfing]
69/0068 . . . [for bull-fighting, or animal-roping]
69/0071 . . . [for basketball]
69/0073 . . . [Means for releasably holding a ball in position; Balls constrained to move around a fixed point, e.g. by tethering]
69/0075 . . . [Means for releasably holding a ball in position prior to kicking, striking or the like (golf tees A63B 57/10)]

2069/0077 . . . [SUSpending a ball on an upright stream of air or water]
69/0079 . . . [Balls tethered to a line or cord (A63B 43/007 takes precedence; other games using tethered balls A63B 67/10; games using a bat or racket with a ball tethered thereto A63B 67/20)]

2069/0082 . . . [with movement of the cord-attachment along its rotational axis as a function of the number of revolutions, e.g. following a helicalmember]
69/0084 . . . . . . [the line or cord being fixed to at least two points]
69/0086 . . . . . . [the line or cord being attached to the user (A63B 21/0608 takes precedence; punching balls attached to the user A63B 69/26)]
69/0088 . . . . . . [the line or cord having a handle]
69/0091 . . . . . . [Balls fixed to a movable, tiltable or flexible arm]
69/0093 . . . . . . [for surfing, i.e. without a sail; for skate or snow boarding]

WARNING

Group A63B 69/0093 is incomplete pending reclassification of documents from groups B63B 32/00, B63B 32/20, B63B 34/70 and B63B 35/00.
All groups listed in this Warning should be considered in order to perform a complete search.

69/0095 . . . [for volley-ball]
69/0097 . . . [Ball rebound walls (with holes or in combination with nets A63B 63/00)]
69/02 . . . for fencing [ e.g. means for indicating hits]
2069/025 . . . . [with conductive floor used as part of the detection circuit]
Rackets, bats, or other accessories for ball games

69/04 . simulating the movement of horses (toy animals for riding A63G 19/00)
69/06 . for rowing or sculling
2069/062 . by pulling on a cable
2069/064 . with pivoting handlebars
2069/066 . with handlebars rotating about a horizontal axis
2069/068 . kayaking, canoeing
69/08 . with water-filled pools
69/10 . Swimming instruction apparatus for use without water
69/12 . Arrangements in swimming pools for teaching swimming (or for training)
69/125 . Devices for generating a current of water in swimming pools
69/14 . Teaching frames for swimming [: Swimming boards]
69/16 . for cycling (: i.e. arrangements on or for real bicycles)
2069/161 . supports for the front of the bicycle
2069/162 . for front fork or handlebar
2069/163 . for the front wheel
2069/164 . supports for the rear of the bicycle, e.g. for the rear forks
2069/165 . rear wheel hub supports
2069/166 . supports for the central frame of the bicycle, e.g. for the crank axle housing, seat tube or horizontal tube
2069/167 . on rollers without further support
2069/168 . Force transfer through the rim of the wheel
69/18 . for skiing
69/182 . for cross-country-skiing (A63B 23/0417, A63B 69/0022 take precedence)
2069/185 . for ski-jumping
69/187 . for water-skiing
69/20 . Punching balls [: e.g. for boxing; Other boxing training devices, e.g. bags (A63B 69/34 takes precedence)]
69/201 . Hanging heavy punching bags
69/203 . Punching balls, i.e. mainly designed to be hit at resonant frequency
69/205 . hanging downwards
69/206 . mounted by using attachments at opposite points
69/208 . mounted on a resilient foot
69/24 . mounted on, or suspended from, a movable support [not used, see subgroup]
69/26 . attached to the human body
69/32 . with indicating devices
69/325 . for vertical blows on a horizontal surface
69/34 . Dummies, e.g. boxing or [American-] football dummies
69/345 . [American-] football, rugby, wrestling dummies, e.g. for tackling, blocking
69/36 . for golf

**WARNING**

Group A63B 69/36 is impacted by reclassification into group A63B 69/3605.

Groups A63B 69/36 and A63B 69/3605 should be considered in order to perform a complete search.

69/3605 . [Golf club selection aids informing player of his average or expected shot distance for each club]

**WARNING**

Group A63B 69/3605 is incomplete pending reclassification of documents from group A63B 69/36.

Groups A63B 69/36 and A63B 69/3605 should be considered in order to perform a complete search.

69/3608 . Attachments on the body, e.g. for measuring, aligning, restraining (A63B 69/0059, A63B 69/3673 take precedence)
69/3614 . using electro-magnetic, magnetic or ultrasonic alignment, restraining (A63B 69/0059, A63B 69/3673 take precedence)
69/3617 . Striking surfaces with impact indicating means, e.g. markers

**WARNING**

Group A63B 69/3617 is impacted by reclassification into group A63B 69/362.

Groups A63B 69/3617 and A63B 69/362 should be considered in order to perform a complete search.

69/362 . [electrical or electronic]

**WARNING**

Group A63B 69/362 is incomplete pending reclassification of documents from group A63B 69/3617.

Groups A63B 69/3617 and A63B 69/362 should be considered in order to perform a complete search.

69/3621 . Contacting or non-contacting mechanical means for guiding the swing
69/36211 . Mechanical guides guiding the club head end during the complete swing, e.g. rails
69/36212 . [with a flexible member fixed on the club and rotating around a fixed supporting point (clubs only for gymnastics or muscular training A63B 15/00)]
69/36213 . [with arm or rod fixed on the club and rotating around a fixed supporting point]
69/3623 . for driving (A63B 69/3608, A63B 69/3658, A63B 69/3661, A63B 69/3667 and A63B 69/3691 take precedence)

**WARNING**

Group A63B 69/3623 is impacted by reclassification into groups A63B 69/3629, A63B 2214/00, and A63B 2225/11.

All groups listed in this Warning should be considered in order to perform a complete search.
Rackets, bats, or other accessories for ball games  A63B

69/3629  . . .  {Visual means not attached to the body for aligning, positioning the trainee's head or for detecting head movement, e.g. by parallax}

**WARNING**

Group A63B 69/3629 is incomplete pending reclassification of documents from group A63B 69/3623.

Groups A63B 69/3623 and A63B 69/3629 should be considered in order to perform a complete search.

69/3632  . . .  {Clubs or attachments on clubs, e.g. for measuring, aligning (A63B 69/3614 takes precedence; clubs for swinging exercises in general A63B 15/00)}

69/3635  . . .  {with sound-emitting source}

69/3638  . . .  {Normal golf clubs with directly attached weights}

69/3652  . . .  {Inclined platforms for practising drives from slopes}

69/3655  . . .  {Balls, ball substitutes, or attachments on balls therefor}

69/3658  . . .  {Means associated with the ball for indicating or measuring, e.g. speed, direction}

69/3661  . . .  {Mats for golf practice, e.g. mats having a simulated turf, a practice tee or a green area}

2069/3664  . . .  {with bristles, the length of which can be adjusted}

69/3667  . . .  {Golf stance aids, e.g. means for positioning a golfer's feet}

2069/3697  . . .  {Foot inclining aids; Foot wobbling devices}

69/3698  . . .  {for putting (A63B 69/3608, A63B 69/3661, A63B 69/3667 and A63B 69/3697 take precedence)}

**WARNING**

Group A63B 69/3676 is impacted by reclassification into group A63B 69/3682.

Groups A63B 69/3676 and A63B 69/3682 should be considered in order to perform a complete search.

69/3682  . . .  {Visual means not attached to the body for aligning, positioning the trainee's head or for detecting head movement, e.g. by parallax}

**WARNING**

Group A63B 69/3682 is incomplete pending reclassification of documents from group A63B 69/3676.

Groups A63B 69/3676 and A63B 69/3682 should be considered in order to perform a complete search.

69/3685  . . .  {Putters or attachments on putters, e.g. for measuring, aligning (A63B 69/3614 takes precedence)}

69/3688  . . .  {Balls, ball substitutes, or attachments on balls therefor}

69/3691  . . .  {Golf courses; Golf practising terrains having a plurality of driving areas, fairways, greens (special golf games, e.g. miniature golf, A63B 67/02; mats for simulating golf greens A63B 69/3661)}

69/3694  . . .  {for driving only}

69/3697  . . .  {with putting taking place on a green other than the target green}

69/38  . . .  {for tennis (A63B 61/006, A63B 69/0073 and A63B 69/0097 take precedence)}

69/385  . . .  {for practising the serve}

69/40  . . .  {Stationarily-arranged devices for projecting balls (or other bodies) (golf cups with ball ejector means A63B 57/405; traps for clay-pigeon targets F41J 9/18)}

2069/401  . . .  {substantially vertically, e.g. for baseball}

2069/402  . . .  {giving spin}

2069/403  . . .  {back or reverse spin}

2069/404  . . .  {side spin}

2069/405  . . .  {top spin}

69/406  . . .  {with rotating discs, wheels or pulleys gripping and propelling the balls or bodies by friction}

69/407  . . .  {with spring-loaded propelling means}

69/408  . . .  {with rotating propelling arm}

69/409  . . .  {with pneumatic ball- or body-propelling means}

71/00  Games or sports accessories not covered in groups A63B 100 - A63B 69/00 (starting appliances A63K 3/02)

71/0009  . . .  {for handicapped persons}

2071/0018  . . .  {for wheelchair users}

2071/0027  . . .  {visually handicapped}

71/0036  . . .  {Accessories for stowing, putting away or transporting exercise apparatus or sports equipment (A63B 47/00, A63B 55/00, A63B 60/56 take precedence)}

**WARNING**

Group A63B 71/0036 is impacted by reclassification into group A63B 60/56.

Groups A63B 71/0036 and A63B 60/56 should be considered in order to perform a complete search.

71/0045  . . .  {specially adapted for games played with rackets or bats (A63B 60/56 takes precedence)}

**WARNING**

Group A63B 71/0045 is impacted by reclassification into group A63B 60/60.

Groups A63B 71/0045 and A63B 60/60 should be considered in order to perform a complete search.

71/0054  . . .  {Features for injury prevention on an apparatus, e.g. shock absorbers (mats or the like for absorbing shocks for jumping A63B 60/00)}

2071/0063  . . .  {Shock absorbers}

2071/0072  . . .  {Limiting the applied force, torque, movement or speed}

2071/0081  . . .  {Stopping the operation of the apparatus}

2071/009  . . .  {Protective housings covering the working parts of the apparatus}
Rackets, bats, or other accessories for ball games

71/02 . . . for large-room or outdoor sporting games

WARNING
Group A63B 71/02 is impacted by reclassification into group A63B 71/03.
Groups A63B 71/02 and A63B 71/03 should be considered in order to perform a complete search.

71/021 . . . (Stays or guy-ropes)
71/022 . . . (Backstops, cages, enclosures or the like, e.g. for spectator protection, for arresting balls)
71/023 . . . (Supports, e.g. poles)
2071/024 . . . [with screws or pins in the earth]
2071/025 . . . [on rollers or wheels]
2071/026 . . . [stabilised by weight]
2071/027 . . . [using player's own weight, e.g. on a platform]
71/028 . . . (Floor sockets for removable poles)
71/03 . . . (Athletic drills or obstacles for sport training, other than foot obstacles for skipping)

WARNING
Group A63B 71/03 is incomplete pending reclassification of documents from group A63B 71/02.
Groups A63B 71/02 and A63B 71/03 should be considered in order to perform a complete search.

71/04 . . . for small-room or indoor sporting games
71/06 . . . Indicating or scoring devices for games or players [. . . for other sports activities]
2071/0602 . . . [Non-electronic means therefor]
71/0605 . . . [Decision makers and devices using detection means facilitating arbitration]
71/0608 . . . [using mechanical, i.e. non-electrical means]
2071/0611 . . . [Automatic tennis linesmen, i.e. in-out detectors]
2071/0613 . . . [Automatic net-fault detectors]
71/0616 . . . [Means for conducting or scheduling competition, league, tournaments or rankings]
71/0619 . . . [Displays, user interfaces and indicating devices, specially adapted for sport equipment, e.g. display mounted on treadmills]
71/0622 . . . [Visual, audio or audio-visual systems for entertaining, instructing or motivating the user]
2071/0625 . . . [ Emitting sound, noise or music]
2071/0627 . . . [when used improperly, e.g. by giving a warning]
2071/063 . . . [Spoken or verbal instructions]
2071/0633 . . . [without electronic means]
2071/0636 . . . [3D visualisation]
2071/0638 . . . [Displaying moving images of recorded environment, e.g. virtual environment]
2071/0641 . . . [with a marker advancing in function of the exercise]
2071/0644 . . . [with display speed of moving landscape controlled by the user's performance]
2071/0647 . . . [Visualisation of executed movements]
2071/065 . . . [Visualisation of specific exercise parameters]
2071/0652 . . . [Visualisation or indication relating to symmetrical exercise, e.g. right-left performance related to spinal column]
2071/0655 . . . [Tactile feedback]
2071/0658 . . . [Position or arrangement of display]
2071/0661 . . . [arranged on the user]
2071/0663 . . . . . . [ worn on the wrist, e.g. wrist bands]
2071/0666 . . . . . . [ worn on the head or face, e.g. combined with goggles or glasses]
71/0669 . . . [Score-keepers or score display devices]
71/0672 . . . . . . [using non-electronic means]
2071/0675 . . . [Input for modifying training controls during workout]
2071/0677 . . . . . . [Input by image recognition, e.g. video signals]
2071/068 . . . . . . [Input by voice recognition]
2071/0683 . . . . . . [Input by handheld remote control]
71/0686 . . . [Timers, rhythm indicators or pacing apparatus using electric or electronic means]
2071/0688 . . . . . . [using non-electronic means, e.g. mechanical, visual, acoustic or tactile means]
2071/0691 . . . [Maps, e.g. yardage maps or electronic maps]
2071/0694 . . . [Visual indication, e.g. Indicia]
71/0697 . . . [Reservation devices]
71/08 . . . Body-protectors for players or sportsmen [. . . body-protecting accessories affording protection of body parts against blows or collisions) (protective clothing or garments for sporting purposes A41D 13/00)
71/081 . . . [Fluid-filled, e.g. air-filled]
2071/083 . . . [using bubble wrap]
71/085 . . . [Mouth or teeth protectors (A63B 71/081 takes precedence)]
2071/086 . . . [Mouth inserted protectors with breathing holes]
2071/088 . . . [Mouth inserted protectors with tether or strap]
71/10 . . . [for the head ( (A63B 71/081 takes precedence ) ; in the form of caps or hats A42B 1/08; helmets A42B 3/00)
2071/105 . . . [Fencing mask]
71/12 . . . [for the body or the legs [. . . for the shoulders (A63B 71/081 takes precedence)]
2071/1208 . . . [for the breast and the abdomen, e.g. breast plates]
71/1216 . . . [for the genital area]
71/1225 . . . [for the legs, e.g. thighs, knees, ankles, feet]
2071/1233 . . . [for the hip]
2071/1241 . . . [for the thigh]
2071/125 . . . [for the knee]
2071/1258 . . . [for the shin, e.g. shin guards]
2071/1266 . . . [for the calf]
2071/1275 . . . [for the ankle]
2071/1283 . . . [for the foot]
71/1291 . . . [for the neck]
71/14 . . . [for the hands, e.g. baseball, boxing or golfing gloves (archer's finger tabs F41B 5/1473)
71/141 . . . [in the form of gloves]
71/143 . . . [Baseball or hockey gloves]
71/145 . . . [Boxing gloves]
71/146 . . . [Golf gloves]
71/148 . . . [Gloves for bowling and other ball games]
Application of clubs, bats, rackets or the like to the sporting activity (particular sports involving the use of balls and clubs, bats, rackets, or the like)

NOTE
A63B 2102/00 corresponds to IPC A63B 102/00. A63B 2102/00 is an indexing scheme for all applicable areas of A63B.

WARNING
Group A63B 2102/00 is incomplete pending reclassification of documents from groups A63B 49/00, A63B 59/00, and A63B 2243/00.

Groups A63B 49/00, A63B 59/00, A63B 2243/00 and A63B 2102/00 should be considered in order to perform a complete search.

Tennis
Badminton
Squash
{ Racketball }
Paddle tennis, padel tennis or platform tennis
Battledore

WARNING
Group A63B 2102/10 is incomplete pending reclassification of documents from groups A63B 49/00 and A63B 59/00.
Groups A63B 49/00 and A63B 59/00 should be considered in order to perform a complete search.

Hanetsuki

WARNING
Group A63B 2102/12 is incomplete pending reclassification of documents from groups A63B 49/00 and A63B 59/00.
Groups A63B 49/00 and A63B 59/00 should be considered in order to perform a complete search.

Lacrosse
Table tennis
Baseball, rounders or similar games

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

{ Softball }
{ Rounders }

Cricket
{ Field } hockey
Ice hockey

Hurling

WARNING
Group A63B 2102/26 is incomplete pending reclassification of documents from groups A63B 49/00, A63B 59/00, and A63B 2102/26 should be considered in order to perform a complete search.

Bandy

WARNING
Group A63B 2102/28 is incomplete pending reclassification of documents from groups A63B 49/00 and A63B 59/00.
Groups A63B 49/00, A63B 59/00, and A63B 2102/28 should be considered in order to perform a complete search.

Floorball

WARNING
Group A63B 2102/30 is incomplete pending reclassification of documents from groups A63B 49/00 and A63B 59/00.
Groups A63B 49/00 and A63B 59/00 should be considered in order to perform a complete search.

Golf
Polo
Croquet
Gateball

WARNING
Group A63B 2102/38 is incomplete pending reclassification of documents from groups A63B 49/00 and A63B 59/00.
Groups A63B 49/00, A63B 59/00 should be considered in order to perform a complete search.

Characteristics or parameters related to the user or player (measuring physical characteristics of the user A63B 2230/00)

posture
Standing on the feet on a single foot Kneeling on hands and knees Squatting Sitting on the buttocks in 90/90 position, like on a chair with stretched legs, like on a bed Lying down with legs in a kneeling 90/90 position supine prone using trunk supports resisting forward motion of user

on the side
Standing on the shoulders or the neck Standing on the head Standing on the hands
Exercising combined with therapy

WARNING

Group A63B 2213/00 is incomplete pending reclassification of documents from group A63B 2214/00.

Groups A63B 2213/00 and A63B 2214/00 should be considered in order to perform a complete search.

2213/00

Exercising combined with therapy

. . Hanging
. . upright
. . on hands and feet (for push-ups A63B 23/1236)
. . the user being in water
. . the user being at least partly surrounded by a pressure different from the atmospheric pressure
. . higher pressure
. . lower pressure
. . specially adapted for children
. . specially adapted for animals

2210/00

Characteristics of used materials

WARNING

Group A63B 2209/00 is impacted by reclassification into group A63B 2209/18.

Groups A63B 2209/00 and A63B 2209/18 should be considered in order to perform a complete search.

. . with reinforcing fibres, e.g. carbon, polyamide fibres
. . Long, oriented fibres, e.g. wound filaments, woven fabrics, mats
. . Ratio fibres-total material
. . magnetic
. . with adhesive type surfaces, i.e. hook and loop-type fastener
. . with form or shape memory materials
. . biodegradable

WARNING

Group A63B 2209/18 is incomplete pending reclassification of documents from group A63B 2209/00.

Groups A63B 2209/00 and A63B 2209/18 should be considered in order to perform a complete search.

2214/00

Training methods

WARNING

Group A63B 2214/00 is incomplete pending reclassification of documents from group A63B 69/3623.

Groups A63B 69/3623 and A63B 2214/00 should be considered in order to perform a complete search.

2220/00

Measuring of physical parameters relating to sporting activity

NOTE

When classifying in this group, the purpose of the measurement takes precedence over the measuring method or device

. . Image processing for measuring physical parameters
. . Positions
. . Absolute positions, e.g. by using GPS
. . Relative positions
. . Geo-tagging, e.g. for correlating route or track location data with specific information related to that specific location
. . Angular positions
. . Counting, e.g. counting periodical movements, revolutions or cycles, or including further data processing to determine distances or speed
. . Inclination, slope or curvature
. . Distances or displacements
. . Stride length
. . Angular displacement
. . Speed
. . Relative speed
. . Angular speed
. . Spin
. . Speed measurement by electric or magnetic parameters

. . Acceleration
. . Angular acceleration
. . Force related parameters
. . Force
. . Weight, e.g. weight distribution
. . Force of an impact, e.g. blow or punch
. . Torque
. . Pressure
. . Measurement of force related parameters by electric or magnetic means
. . Time or time measurement used for time reference, time stamp, master time or clock signal
. . Frequency, e.g. of vibration oscillation
. . Measuring or simulating ambient conditions, e.g. weather, terrain or surface conditions
. . Temperature
. . Altitude
. . Atmospheric pressure
. . Humidity
. . Wind conditions
. . Surface covering conditions, e.g. of a road surface
. . Special sensors, transducers or devices therefor
. . Contact switches
. . Ultra-sound sensors
. . Motion sensors
A63B

2225/00 Miscellaneous features of sport apparatus, devices or equipment

2225/01 . Special aerodynamic features, e.g. airfoil shapes, wings or air passages
2225/02 . Testing, calibrating or measuring of equipment
2225/05 . with suction cups
2225/055 . used for fixing
2225/08 . with writing point
2225/09 . Adjustable dimensions
2225/093 . Height
2225/096 . automatically adjusted according to anthropometric data of the user
2225/10 . Multi-station exercising machines
2225/102 . having a common resisting device
2225/105 . each station having its own resisting device, e.g. for training multiple users simultaneously
2225/107 . Resisting devices being of the same kind
2225/11 . specially adapted to be transported on a trailer

WARNING

Group A63B 2225/11 is incomplete pending reclassification of documents from group A63B 69/3623.
Groups A63B 69/3623 and A63B 2225/11 should be considered in order to perform a complete search.

2225/12 . with mirrors
2225/15 . with identification means that can be read by electronic means
2225/20 . with means for remote communication, e.g. internet or the like
2225/30 . Maintenance
2225/305 . Remote servicing
2225/50 . Wireless data transmission, e.g. by radio transmitters or telemetry
2225/52 . modulated by measured values
2225/54 . Transponders, e.g. RFID
2225/60 . Apparatus used in water
2225/605 . Floating
2225/62 . Inflatable
2225/64 . Heated
2225/66 . Cooled
2225/68 . with article holders
2225/682 . for beverages
2225/685 . for electronic devices, e.g. phone, PDA, GPS device, notebook
2225/687 . for others, e.g. keys, wallets, books
2225/70 . Coin-operated
2225/72 . Means preventing unauthorised use, e.g. by lowering a tennis net
2225/74 . with powered illuminating means, e.g. lights
2225/76 . with means enabling use in the dark, other than powered illuminating means

2230/00 Measuring physiological parameters of the user

2230/01 . User's weight
2230/015 . used as a control parameter for the apparatus
2230/04 . heartbeat characteristics, e.g. E.G.C., blood pressure modulations
2230/045 . used as a control parameter for the apparatus
2230/06 . heartbeat rate only
2230/062 . used as a control parameter for the apparatus
2230/065 . within a certain range
2230/067 . used as a control parameter for the apparatus
2230/08 . other bio-electrical signals
2230/085 . used as a control parameter for the apparatus
2230/10 . electroencephalographic signals
2230/105 . used as a control parameter for the apparatus
2230/20 . blood composition characteristics
2230/201 . used as a control parameter for the apparatus
2230/202 . glucose
2230/203 . used as a control parameter for the apparatus
2230/205 . P-CO₂, i.e. partial CO₂ value
2230/206 . used as a control parameter for the apparatus
2230/207 . P-O₂, i.e. partial O₂ value
2230/208 . used as a control parameter for the apparatus
2230/30 . blood pressure (A63B 2230/04 takes precedence)
2230/305 . used as a control parameter for the apparatus (A63B 2230/045 takes precedence)
2230/40 . respiratory characteristics
2230/405 . used as a control parameter for the apparatus
2230/42 . rate
2230/425 . used as a control parameter for the apparatus
2230/43 . Composition of exhaled air
2230/431 . used as a control parameter for the apparatus
2230/433 . partial CO₂ value
2230/435 . used as a control parameter for the apparatus
2230/436 . partial O₂ value
2230/438 . used as a control parameter for the apparatus
2230/50 . temperature
2230/505 . used as a control parameter for the apparatus
2230/60 . muscle strain, i.e. measured on the user
2230/605 . used as a control parameter for the apparatus
2230/62 . posture
2230/625 . used as a control parameter for the apparatus
2230/65 . skin conductivity
2230/655 . used as a control parameter for the apparatus
2230/70 . body fat
2230/705 . used as a control parameter for the apparatus
2230/75 . calorie expenditure
2230/755 . used as a control parameter for the apparatus

2243/00 Specific ball sports not provided for in A63B 2102/00 - A63B 2102/38

WARNING

Group A63B 2243/00 is impacted by reclassification into group A63B 2102/00.
Groups A63B 2243/00 and A63B 2102/00 should be considered in order to perform a complete search.

2243/002 . Billiards
2243/0025 . Football (American football A63B 2243/007)
2243/0033  .  Handball
2243/0037  .  Basketball
2243/0054  .  Bowling, i.e. ten-pin bowling
2243/0058  .  Bowls, crown green bowling
2243/0062  .  Petanque
2243/0066  .  Rugby; American football
2243/007  .  American football
2243/0095  .  Volleyball

2244/00  .  Sports without balls
2244/03  .  Skeet, clay pigeon shooting
2244/04  .  Bow shooting
2244/08  .  Jumping, vaulting
2244/081  .  High jumping
2244/082  .  Long jumping
2244/084  .  Triple jump
2244/085  .  Pole vaulting
2244/087  .  without take off run
2244/088  .  hurdles
2244/09  .  Weight-lifting
2244/10  .  Combat sports (Rugby, American football

A63B 2243/0066)

2244/102  .  Boxing
2244/104  .  Judo
2244/106  .  Karate
2244/108  .  Wrestling
2244/12  .  Acrobats
2244/14  .  Shot putting
2244/15  .  Discus throwing
2244/16  .  Spear or javelin throwing
2244/17  .  Hammer throwing
2244/18  .  Skating
2244/183  .  Artistic or figure skating
2244/186  .  Roller skating
2244/19  .  Skiing
2244/20  .  Swimming
2244/203  .  Diving
2244/206  .  artistic
2244/22  .  Dancing
2244/225  .  Pole dancing
2244/24  .  Horse riding
2244/26  .  Bob-sleigh