

CPC**COOPERATIVE PATENT CLASSIFICATION****A63B**

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

WARNING

1. The following IPC groups are not used in the internal classification scheme. Subject matter covered by these groups is classified in the following CPC groups:

[A63B 7/06](#) covered by [A63G 1/00](#)
[A63B 21/075](#) covered by [A63B 21/072](#)
[A63B 21/08](#) covered by [A63B 21/06](#)
[A63B 22/08](#) covered by [A63B 22/0605](#) in absence of [A63B 22/00](#) A
[A63B 22/10](#) covered by [A63B 22/0605](#) in combination with
[A63B 22/00](#) A
[A63B 22/12](#) covered by [A63B 22/0605](#) in combination with
[A63B 22/001](#)
[A63B 29/04](#) covered by [A63B 29/00](#)
[A63B 31/16](#) covered by [A63B 31/14](#)
[A63B 49/06](#) covered by [A63B 49/02](#)
[A63B 51/16](#) covered by [A63B 51/14](#)
[A63B 55/06](#) covered by [A63B 55/04](#)
[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 71/08](#) A

Guidance heading: **Gymnastic exercising apparatus (training apparatus for special sports [A63B 69/00](#) ; apparatus for passive exercising, massage [A61H](#))**

A63B 1/00**Horizontal bars**

A63B 1/005

. { Safety devices for securing the rods }

A63B 1/04

. Cleaning the rods

A63B 3/00**Parallel bars or similar apparatus****A63B 4/00****Balance beams****A63B 5/00**

Apparatus for jumping (mats for jumping [A63B 6/00](#) ; for racing or riding sports, e.g. hurdles [A63K](#))

A63B 5/02

. High-jumping posts

A63B 5/04

.. Ropes { or similar devices } therefor

A63B 5/06

. Vaulting poles; { Take-off boxes therefor }

- A63B 5/08 . Spring-boards (of trampoline type [A63B 5/11](#) ; { in the form of spring mats [A63B 6/00](#) })
- A63B 2005/085 . . for launching, e.g. catapulting
- A63B 5/10 . . for aquatic sports
- A63B 5/11 . Trampolines
- A63B 5/12 . Bolster vaulting apparatus, e.g. horses, bucks, tables
- A63B 5/16 . Training devices for jumping ; Devices for balloon-jumping ; Jumping aids { ([A63B 25/02](#) , [A63B 25/10](#) take precedence) }
- A63B 2005/163 . . Free-fall jumping on elastic cords, e.g. Bungee jumping
- A63B 5/166 . . { Devices for balloon-jumping }
- A63B 5/20 . Skipping-ropes { or similar devices rotating in a vertical plane }
- A63B 5/205 . . { Powered skipping rope devices }
- A63B 5/22 . Foot obstacles for skipping, { e.g. horizontally-rotating obstacles }
- A63B 6/00 Mats or the like for absorbing shocks for jumping, gymnastics or the like { (for jogging on the spot [A63B 69/0035](#) ; resiliently-mounted floors [E04F 15/22](#)) }**
- A63B 6/02 . for landing, e.g. for pole vaulting { (jumping-mattresses for rescue [A62B 1/22](#)) }
- A63B 6/025 . . { Sand landing pits, e.g. for long jumping }
- A63B 7/00 Freely-suspended gymnastic apparatus**
- A63B 7/02 . Swinging rings ; Trapezes
- A63B 7/04 . Climbing-ropes
- A63B 7/045 . . { Using endless ropes }
- A63B 7/08 . Apparatus for rope-dancing
- A63B 7/085 . . { Balancing on a band tensioned between two anchor points, e.g. Slackline type }
- A63B 9/00 Climbing poles, frames, or stages { (climbing walls for mountaineering training [A63B 69/0048](#) ; endless loop ladders [A63B 22/04](#)) }**
- WARNING**
- Documents are being reclassified to [A63B 21/072](#) ; [A63B 21/0728](#) is complete
- A63B 2009/002 . Flat climbing nets
- A63B 2009/004 . Three-dimensional rope or cable networks
- A63B 2009/006 . Playground structures

- A63B 2009/008 . . . with water spraying means
- A63B 15/00** **Clubs, { e.g. for swinging exercises }**
- WARNING**
- Documents are being reclassified to [A63B 21/072](#)
- A63B 15/005 . { with a weight movable along the longitudinal axis of the club due to centrifugal forces (in tennis rackets [A63B 59/0096](#)) }
- A63B 15/02 . with illuminating devices
- A63B 17/00** **Exercising apparatus combining several parts such as ladders, rods, beams, slides**
- A63B 17/02 . rigidly combined
- A63B 17/04 . separable
- A63B 19/00** **Hoop exercising apparatus { ([A63B 21/0608](#) takes precedence; not driven by the user, e.g. motor driven, [A63G 29/00](#) , [A63G 31/00](#)) }**
- A63B 19/02 . Freely-movable rolling hoops, e.g. gyrowheels { or spheres or cylinders, carrying the user inside (resisting devices overcoming gyroscopic forces of rotating bodies [A63B 21/22](#) ; standing on it for equilibrium exercises [A63B 26/003](#) ; spherical hulls or hulls in the shape of a vertical ring for use in water [B63B 1/047](#)) }
- A63B 19/04 . movably supported on a framework { or spheres or cylinders carrying the user inside (standing on it for equilibrium exercises [A63B 26/003](#)) }
- A63B 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](#) ; measuring muscular strength [A61B 5/22](#))**
- A63B 21/00003 . { Special force transmissions therefor }
- A63B 21/00007 . . { using flexible elements for reciprocating movements, e.g. ropes, chain (flexible ropes or chains for transmission between rotating axes or pulleys n.c.) }
- A63B 21/0001 . . . { Bowden cables, i.e. wire within a protective casing, like a bike brake cable }
- A63B 21/00014 . . . { wound up and unwound during exercise, e.g. from a reel, rewind reels [B65H 75/00](#) }
- A63B 21/00018 . . . { using special pulley-assemblies }
- A63B 21/00021 { cam-shaped pulleys or other non-uniform pulleys, e.g. conical }
- A63B 21/00025 { the position of one (or more) pulleys being variable (e.g. for different exercises) }
- A63B 21/00029 . . { Ratchet-wheel links; overrunning clutches , one-way clutches }
- A63B 21/00032 . . { using levers for transmitting forces }
- A63B 21/00036 . . { Hydraulic transmission, hydraulic resistance [A63B 21/0081](#) }

- A63B 21/0004 . { Exercise device moving as a whole during exercise, bar bells and dumb bells [A63B 21/072](#) t.p., on wheels [A63B 22/20](#) }
- A63B 21/00043 . . { exercise device consisting of a pair of interfaces with the user connected by flexible elements, e.g. two handles connected by elastic bands, skipping ropes [A63B 5/20](#) t.p., resilient element [A63B 21/02](#) }

WARNING

not complete, pending the completion of a reclassification

- A63B 21/00047 . Exercise device not moving during use, benches [A63B 21/00087](#) t.p., isometric exercising [A63B 21/0023](#) , step exerciser [A63B 23/0458](#) t.p., walk exerciser [A63B 23/0464](#) t.p.]
- A63B 21/0005 . . { For head stands }
- A63B 21/00054 . . { For shoulder stands }
- A63B 21/00058 . { Mechanical means for variation of the resistance ([A63B 21/06](#) takes precedence) }

WARNING

not complete, pending the completion of a reclassification

- A63B 21/00061 . . { Replaceable resistance units of different strengths, e.g. for swapping }

WARNING

not complete, pending the completion of a reclassification

- A63B 21/00065 . . { Multiple individual resistance units of the same or different strengths, e.g. additional }

WARNING

not complete, pending the completion of a reclassification

- A63B 21/00069 . . { Setting, adjusting the resistance level, or compensating for a preload prior to use, e.g. changing length of resistance, adjusting a valve }

WARNING

not complete, pending the completion of a reclassification

- A63B 21/00072 . . . { By changing the length of a lever }
- A63B 21/00076 . . { On the fly, i.e. the resistance being adjustable during exercise }

WARNING

not complete, pending the completion of a reclassification

- A63B 21/00079 . { details of the interface with the user related to strength training }

WARNING

not complete, pending the completion of a reclassification

A63B 21/00083 . . { kind of exercise interface; chairs and stools with exercising means [A47C 9/002](#) }

WARNING

not complete, pending the completion of a reclassification

A63B 21/00087 . . . { benches specifically designed for exercising; for bench press [A63B 21/078](#) }

WARNING

not complete, pending the completion of a reclassification

A63B 21/0009 { with parts of the bench moving against a resistance during exercise }

WARNING

not complete, pending the completion of a reclassification

A63B 21/00094 . . . { handle, pedal, bar or platform }

WARNING

not complete, pending the completion of a reclassification

A63B 21/00098 { for manipulation by feet/foot }

WARNING

not complete, pending the completion of a reclassification

A63B 21/00101 { for manipulation by hand }

WARNING

not complete, pending the completion of a reclassification

A63B 21/00105 . . . { exercise mats with or without hand or foot grips for personal use, e.g. for Yoga or supine floor exercises; mats for absorbing shocks [A63B 6/00](#) t.p. }

WARNING

not complete, pending the completion of a reclassification

A63B 21/00109 . . . N: contoured to fit to specific body parts ; e.g. back, knee or neck support ; attachment on user's body [A63B 21/00138](#) t.p. ; handles, pedals, bar or platform [A63B 21/00094](#) t.p.]

WARNING

not complete, pending the completion of a reclassification

A63B 21/00112 . . { movement of the interface }

WARNING

not complete, pending the completion of a reclassification

A63B 21/00116 . . . { free movement, unrestricted apart from by the resistance; [A63B 21/072](#) t.p.; [A63B 21/32](#) t.p }

WARNING

not complete, pending the completion of a reclassification

A63B 21/0012 . . . { reciprocating movement of the interface along (in/on) a guide, weights moving along or in guiding means [A63B 21/06](#) , for cardio-training [A63B 22/201](#) }

WARNING

not complete, pending the completion of a reclassification

A63B 21/00123 . . . { pivoting movement of the interface, weight pivoting [A63B 21/08](#) }

WARNING

not complete, pending the completion of a reclassification

A63B 21/00127 . . . { the interface rotating about an axis }

WARNING

not complete, pending the completion of a reclassification

A63B 21/0013 . . direct manipulation of the resistance, dumb bells, bar bells or the like [A63B 21/072](#) t.p.]

WARNING

not complete, pending the completion of a reclassification

A63B 21/00134 . . . { resisting device worn on the body; weights worn on user's body [A63B 21/065](#) t.p. }

A63B 21/00138 . . { Attachments of exercising apparatus to the body of the user, e.g. using special belts, shoes or gloves, weights worn on user's body [A63B 21/065](#) t.p., exoskeletons [B25J 9/0006](#) }

A63B 21/00141 . . . { to the head, neck }

A63B 21/00145 . . . { to the shoulder }

A63B 21/00149 . . . { to the chest region, including back }

WARNING

not complete, pending the completion of a reclassification

A63B 21/00152 . . . { to the waist }

A63B 21/00156 . . . { to the lower limbs, means for physically limiting movements of body parts
[A63B 69/0053](#) }

A63B 21/0016 { to the ankle }

WARNING

not complete, pending the completion of a reclassification

A63B 21/00163 { to the feet }

A63B 21/00167 . . . { to the upper limbs }

WARNING

not complete, pending the completion of a reclassification

A63B 21/0017 { to the wrist }

WARNING

not complete, pending the completion of a reclassification, check
[A63B 21/00167](#)

A63B 21/00174 { to the hand }

WARNING

not complete, pending the completion of a reclassification, check
[A63B 21/00167](#)

A63B 21/00178 . { Apparatus for active exercising which can be used also for passive exercising }

A63B 21/00181 . { Apparatus comprising additional means assisting the user to overcome part of the
resisting force, i.e. assisted-active exercising }

A63B 21/00185 . { Resistance force provided by the user himself, e.g. exercising one body part against
a resistance provided by another body part ([A63B 21/068](#) takes precedence;
isometric exercise [A63B 21/0023](#)) }

A63B 21/00189 . { Resistance provided by deformable materials having no elasticity, e.g. lead bars,
kneadable masses }

A63B 21/00192 . { Resistance force provided by magnetic means ([A63B 21/005](#) takes precedence)
}

A63B 21/00196 . { Pulsed counterforce; e.g. vibrating resistance means ([A61H 1/005](#) takes
precedence) }

A63B 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 }

A63B 21/0023 . . { Apparatus for isometric exercising only, e.i. without substantial motion by
substantial force application }

A63B 2021/0026 . . isokinetic exercising, i.e. the speed or the maximum speed being independent of
the force applied by the user

- A63B 21/005 . using electromagnetic or electric force-resisters
- A63B 21/0051 .. { using eddy-currents induced in moved elements, e.g. by permanent magnets }
- A63B 21/0052 ... { induced by electromagnets ([A63B 21/0056](#) takes precedence) }
- A63B 21/0053 .. { using an alternator or a dynamo }
- A63B 2021/0054 ... for charging a battery
- A63B 2021/0055 ... the produced electric power used as a source for other equipment, e.g. T.V.
- A63B 21/0056 .. { using electromagnetically-controlled friction, e.g. magnetic particle brakes }
- A63B 21/0057 .. { using electromagnetic clutches }
- A63B 21/0058 .. { using a motor }
- A63B 2021/0059 ... using a frequency controlled AC motor

- A63B 21/008 . using hydraulic or pneumatic force-resisters { not used, see subgroups }
- A63B 21/0081 .. { using hydraulic force-resisters }
- A63B 2021/0082 ... using electrorheological or magnetic-rheological fluids
- A63B 21/0083 ... { of the piston-cylinder type (shock absorbers in general [F16F 9/00](#)) }
- A63B 21/0084 ... { by moving the ambient water ([A63B 31/00](#) , [A63B 35/00](#) take precedence) }

- A63B 21/0085 .. { using pneumatic force-resisters }
- A63B 2021/0086 ... Suction cups
- A63B 21/0087 ... { of the piston-cylinder type }
- A63B 21/0088 ... { by moving the ambient air }

- A63B 21/012 . using frictional force-resisters { (electromagnetically-controlled brakes [A63B 21/0056](#)) }
- A63B 21/0125 .. { with surfaces rolling against each other without substantial slip }
- A63B 21/015 .. including rotating or oscillating elements { rubbing against fixed elements }
- A63B 21/018 .. including a rope { or other flexible element } moving relative to the surface of elements

- A63B 21/02 . using resilient force-resisters
- A63B 2021/021 .. Flip-flop, overcentre, toggle systems
- A63B 2021/022 .. with different springs acting at different parts of the stroke
- A63B 21/023 .. { Wound springs }
- A63B 21/025 ... { Spiral springs with turns lying substantially in plane surfaces }
- A63B 21/026 .. { Bars; Tubes; Leaves ([A63B 21/023](#) takes precedence) }
- A63B 21/027 ... { Apparatus forced to oscillate at its resonant frequency }
- A63B 21/028 .. { made of material having high internal friction, e.g. rubber, plastic, steel wool, used for compression }

- A63B 21/04 .. attached to static foundation
- A63B 21/0407 ... { Anchored at two end points, e.g. installed within an apparatus }
- A63B 21/0414 { With both ends stationary during the actual exercise, i.e. force applied at an intermediate location }
- A63B 21/0421 { Ends moving relatively by a pivoting arrangement }
- A63B 21/0428 { the ends moving relatively by linear reciprocation }

- A63B 21/0435 { One or both ends anchored to a rotating element }
- A63B 21/0442 . . . { Anchored at one end only, the other end manipulated by the user }
- A63B 21/045 . . having torsion { or bending, flexion } element
- A63B 21/0455 . . . { having torsion element around its longitudinal axis }
- A63B 21/05 . . Linearly-compressed elements { ([A63B 21/028](#) takes precedence) }
- A63B 21/055 . . extension element type
- A63B 21/0552 . . . { Elastic ropes or bands }
- A63B 21/0555 { Details of the rope or band itself, e.g. form, construction, colour coding, protection coating }
- A63B 21/0557 { Details of attachments, e.g. to other parts, i.e. clips, clamps }

- A63B 21/06 . User-manipulated weights
- A63B 21/0601 . . { Special physical structures of used masses }
- A63B 21/0602 . . . { Fluids, e.g. water }
- A63B 21/0603 . . . { Fluid-like particles, e.g. gun shot, sand }
- A63B 21/0604 . . . { Aggregate, e.g. concrete }
- A63B 21/0605 . . . { With boxes, baskets or the like for stacking loose weights therein }
- A63B 21/0606 . . . { Buoyant volumes to be submerged }
- A63B 21/0607 . . . { Synthetic, e.g. elastomers }
- A63B 21/0608 . . { Eccentric weights put into orbital motion by nutating movement of the user }
- A63B 21/0609 . . { Loosely interconnected, giving progressively changing weight, e.g. heavy chains }

- A63B 21/0611 . . { to be launched or thrown along guiding means against gravity forces }
- A63B 2021/0612 . . . with adjustable inclination angle of the guiding means
- A63B 21/0613 . . . { by moving the guiding means }
- A63B 2021/0614 . . . with substantially vertical guiding means ([A63B 21/062](#) takes precedence)
- A63B 21/0615 . . { the weight pivoting about a fixed horizontal fulcrum }
- A63B 2021/0616 . . . Weight pivot moment being adjustable
- A63B 2021/0617 . . . Weight pivot moment changing as a function of the pivot angle
- A63B 21/0618 . . { Weights moving upon a horizontal plane without substantial friction, e.g. on wheels, i.e. using inertial forces }

- A63B 21/062 . . including guide for vertical array of weights
- A63B 2021/0623 . . . Weight linking or selecting means
- A63B 2021/0626 . . . Weights being lifted by means other than flexible ones
- A63B 21/065 . . worn on user`s body
- A63B 21/068 . . using user`s body weight
- A63B 21/072 . . Dumb-bells, bar-bells or the like, { also other free movable weights, e.g. weight discs having an integral peripheral handle }

WARNING

not complete, see also [A63B 11/00](#) , [A63B 13/00](#) , [A63B 15/00](#)

- A63B 2021/0722 . . . transformable, e.g. from dumb-bell to bar-bell or club
- A63B 21/0724 . . . { Bar-bells; Hand bars }

- A63B 21/0726 ... { Dumb bells, i.e. with a central bar, for being held by a single hand, with weights at the ends }
- A63B 21/0728 ... { Means for fixing weights on bars }
- A63B 21/075 ... with variable weights
- A63B 21/078 .. Devices for bench press exercises; { Supports, guiding means, drop-limiting means for bar-bells, combined or not combined with benches }
- A63B 2021/0783 ... Safety or other features related to bar-bells
- A63B 2021/0786 drop-limiting means
- A63B 21/08 .. anchored at one end
- A63B 21/14 . { Details of the interface with the user related to strength training }

WARNING

This group and its subgroups are not complete pending the completion of a reclassification; see also the other subgroups of [A63B 21/00](#)

- A63B 21/1403 .. { Attachments of exercising apparatus to the body of the user, e.g. using special belts, shoes or gloves ([A63B 21/065](#) takes precedence, [Exoskeletons B25J 9/0006](#)) }
- A63B 21/1407 ... { to the head, neck }
- A63B 21/1411 ... { to the shoulder }
- A63B 21/1415 ... { to the chest region, including back }
- A63B 21/1419 ... { to the waist }
- A63B 21/1423 ... { to the lower limbs (means for physically limiting movements of body parts [A63B 69/0053](#)) }
- A63B 21/1426 { to the ankle }
- A63B 21/143 { to the feet }
- A63B 21/1434 ... { to the upper limbs }
- A63B 21/1438 { To the hand }
- A63B 21/1442 { To the wrist }
- A63B 21/1446 .. { Direct manipulation of the resistance } ([A63B 21/072](#) takes precedence)
- A63B 21/1449 ... { Resisting device worn on the body ([A63B 21/065](#) takes precedence) }
- A63B 21/1453 .. { Kind of exercise interface (chairs and stools with exercising means [A47C 9/002](#)) }
- A63B 21/1457 ... { Benches specifically designed for exercising (for bench press [A63B 21/078](#)) }
- A63B 21/1461 { With parts of the bench moving against a resistance during exercise }
- A63B 21/1465 ... { Handle, pedal, bar or platform }
- A63B 21/1469 { For manipulation by hand }
- A63B 21/1473 ... { Exercise mats with or without hand or foot grips for personal use, e.g. for Yoga or supine floor exercises ([A63B 6/00](#) takes precedence) }
- A63B 21/1476 ... { Contoured to fit to specific body parts; e.g. back, knee or neck support ([A63B 21/1403](#) , [A63B 21/1465](#) take precedence) }
- A63B 21/148 .. { Movement of the interface }
- A63B 21/1484 ... { Free movement, unrestricted apart from by the resistance ([A63B 21/00043](#) , [A63B 21/072](#) take precedence) }

- A63B 21/1488 ... { Reciprocating movement of the interface along, in or on a guide (weights moving along or in guiding means [A63B 21/06](#) , for cardio-training [A63B 22/201](#)) }
- A63B 21/1492 ... { Pivoting movement of the interface (weight pivoting [A63B 21/08](#)) }
- A63B 21/1496 ... { the interface rotating about an axis }

- A63B 21/15 . { Special force transmissions therefor }
- A63B 21/151 .. { Using flexible elements for reciprocating movements, e.g. ropes, chain }
- A63B 21/152 ... { Bowden cables, i.e. wire within a protective casing, like a bike brake cable }
- A63B 21/153 ... { Wound up and unwound during exercise, e.g. from a reel (rewind reels [B65H 75/00](#)) }
- A63B 21/154 ... { Using special pulley-assemblies }
- A63B 21/155 { Cam-shaped pulleys or other non-uniform pulleys, e.g. conical }
- A63B 21/156 { the position of one or more pulleys being variable, e.g. for different exercises }
- A63B 21/157 .. { Ratchet-wheel links; Overrunning clutches , One-way clutches }
- A63B 21/158 .. { Hydraulic transmissions (hydraulic resistance [A63B 21/0081](#)) }
- A63B 21/159 .. { Using levers for transmitting forces }

- A63B 21/16 . Supports for anchoring force-resisters
- A63B 2021/1609 .. on a chair
- A63B 21/1618 .. { not used, see subgroups and [A63B 21/16](#) }
- A63B 21/1627 ... { on or between the vertical posts of a door frame }
- A63B 21/1636 ... { on the horizontal part of a door frame }
- A63B 21/1645 ... { on a door }
- A63B 21/1654 ... { clamped between door and floor }
- A63B 21/1663 ... { clamped between door and door frame }
- A63B 2021/1672 .. on beds, mattresses
- A63B 21/1681 .. { mounted between horizontal surfaces, e.g. floor and ceiling }
- A63B 2021/169 .. mounted on or against a wall

- A63B 21/22 . Resisting devices with rotary bodies, { e.g. by overcoming gyroscopic forces ([A63B 21/0608](#) takes precedence) }
- A63B 2021/222 .. by overcoming gyroscopic forces, e.g. by turning the spin axis
- A63B 21/225 .. { with flywheels }
- A63B 21/227 ... { with alternate changes of rotational sense }

- A63B 21/28 . Devices for two persons operating in opposition
- A63B 21/285 .. { in cooperation }

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

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.

- A63B 22/0002 . { involving an exercising of arms (for strengthening the upper limbs [A63B 23/12](#)) }
- A63B 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
- A63B 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 }
- A63B 22/001 . . { by simultaneously exercising arms and legs, e.g. diagonally in anti-phase ([A63B 22/0076](#) takes precedence) }
- A63B 22/0012 . . . { the exercises for arms and legs being functionally independent }
- A63B 22/0015 . { with an adjustable movement path of the support elements }
- A63B 22/0017 . . the adjustment being controlled by movement of the user, e.g. the applied force, the direction of rotation or the speed
- A63B 22/002 . . . electronically, e.g. by using a program
- A63B 22/0023 . . { the inclination of the main axis of the movement path being adjustable, e.g. the inclination of an endless band }
- A63B 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
- A63B 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
- A63B 22/003 . . . the movement path being perpendicular to the body-symmetrical-plane
- A63B 22/0033 . . Lower limbs performing together the same movement, e.g. on a single support element
- A63B 22/0035 . . Upper limbs performing together the same movement, e.g. on a single support element
- A63B 22/0038 . . One foot moving independently from the other, i.e. there is no link between the movements of the feet
- A63B 22/0041 . . one hand moving independently from the other hand, i.e. there is no link between the movements of the hands
- A63B 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
- 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 21/12](#) ; using rollers, wheels, castors or gliding means to be moved over the floor or guide tracks [A63B 22/20](#)) }
- A63B 22/0048 . { with cantilevered support elements pivoting about an axis ([A63B 22/0076](#) takes precedence) }
- A63B 22/0051 . . 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
- A63B 22/0053 . . each support element being cantilevered by a parallelogram system

- A63B 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](#)) }
- A63B 22/0058 . . . { the vertical plane being the frontal body-plane }
- A63B 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](#)) }
- A63B 22/0064 . . { the pivoting movement being in a plane inclined with respect to the horizontal plane, e.g. a step and twist movement }
- A63B 22/0066 . . . the movement of the support elements being downward-inward, i.e. the support elements are moving towards the body-symmetrical-plane
- A63B 22/0069 . . . { about an axis inclined with respect to the horizontal plane, e.g. steppers with an inclined axis }
- A63B 22/0071 the axis being located behind the user, e.g. for skate training
- A63B 22/0074 the axis being located in front of the user, e.g. for steppers with twist movement

- A63B 22/0076 . { Rowing machines (seats moving during exercise [A63B 22/0087](#) ; training appliances for rowing or sculling on boats [A63B 69/06](#)) }
- A63B 22/0079 . . with a pulling cable
- A63B 22/0082 . . with pivoting handlebars
- A63B 22/0084 . . . pivoting about a horizontal axis

- A63B 22/0087 . { with a seat or torso support moving during the exercise, e.g. reformers ([A63B 22/0076](#) takes precedence) }
- A63B 22/0089 . . { a counterforce being provided to the support (force-resisting aspects [A23B 21/00](#)) }

- A63B 22/0092 . for training agility or co-ordination of movements
- A63B 22/0094 . for active rehabilitation, e.g. slow motion devices
- A63B 22/0097 . for avoiding blood stagnations, e.g. Deep Vein Thrombosis (DVT)

- A63B 22/02 . with movable endless bands { , e.g. treadmills (other training appliances for running on the spot [A63B 69/0028](#)) }
- A63B 22/0207 . . having shock absorbing means
- A63B 22/0214 . . . between the belt supporting deck and the frame
- A63B 22/0221 . . . on the frame or sub-frame supporting the rollers
- A63B 22/0228 . . . with variable resilience
- A63B 22/0235 . . { driven by a motor }
- A63B 22/0242 . . . { with speed variation }
- A63B 22/025 electrically, e.g. with D.C. motors or eddy current machines
- A63B 22/0257 { Mechanical systems therefor }
- A63B 22/0264 hydraulically
- A63B 22/0271 omnidirectional
- A63B 22/0278 . . . with reversible direction of the running surface
- A63B 22/0285 . . { Physical characteristics of the belt, e.g. material, surface, indicia }
- A63B 22/0292 . . with separate belts for each leg, e.g. dual deck

- A63B 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](#)) }
- A63B 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](#))
- A63B 22/0605 .. { performing a circular movement, e.g. ergometers }
- A63B 22/0611 ... Particular details or arrangement of cranks
- A63B 22/0617 with separate crank axis for each limb, e.g. being separately adjustable or non parallel
- A63B 22/0623 Cranks of adjustable length
- A63B 22/0629 each pedal being supported by two or more cranks
- A63B 22/0635 ... specially adapted for a particular use
- A63B 22/0641 enabling a lateral movement of the exercising apparatus, e.g. for simulating movement on a bicycle
- A63B 22/0647 for cycling in a standing position, i.e. without a seat or support for the trunk
- A63B 22/0652 for cycling in a recumbent position
- A63B 22/0658 for cycling with a group of people, e.g. spinning classes
- A63B 22/0664 .. { performing an elliptic movement }
- A63B 22/067 ... 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
- A63B 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
- A63B 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
- A63B 22/0688 ... with cranks being substantially within the horizontal moving range of the support elements, e.g. by using planetary gearings
- A63B 22/0694 .. { without integral seat, e.g. portable mini ergometers being placed in front of a chair, on a table or on a bed }
- A63B 22/08 .. for the legs, { i.e. only for the legs }
- A63B 22/14 . Platforms for reciprocating rotating motion about a vertical axis { e.g. axis through the middle of the platform }
- A63B 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](#)) }
- A63B 22/18 . with elements, { i.e. platforms, } having a circulating, { nutating } 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 21/0608](#) ; pots rotating or rocking by moving the whole body [A63G 23/00](#) })
- A63B 22/185 .. specially adapted for using with a single foot
- A63B 22/20 . 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

- A63B 22/201 .. { for moving a support element in reciprocating translation, e.g. for sliding back and forth on a guide track }
- A63B 22/203 ... { in a horizontal plane }
- A63B 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](#)) }
- A63B 22/206 ... on a curved path
- A63B 22/208 ... { On a track which is itself moving during exercise }

A63B 23/00

Exercising apparatus specially adapted for particular parts of the body (
[A63B 22/00](#) takes precedence; force-resisting aspects [A63B 21/00](#) ; electric or electronic controls therefor [A63B 24/00](#) ; devices for exercising or strengthening of fingers, or arms in teaching operation of keyboards [G09B 15/06](#))

- A63B 2023/003 . by torsion of the body part around its longitudinal axis
- A63B 2023/006 . for stretching exercises
- A63B 23/02 . for the abdomen, the spinal column or the torso { muscles related to shoulders (e.g. chest muscles) [A63B 23/12](#) t.p.; exercising belts without indicating means [A63B 21/26](#) }
- A63B 23/0205 .. { Abdomen }
- A63B 23/0211 ... { moving torso with immobilized lower limbs }
- A63B 23/0216 ... { moving lower limbs with immobilized torso }
- A63B 23/0222 ... { moving torso and lower limbs }
- A63B 23/0227 ... { moving torso or lower limbs laterally, i.e. substantially in the frontal plane }
- A63B 23/0233 .. { Muscles of the back, e.g. by an extension of the body against a resistance, reverse crunch }
- A63B 23/0238 ... { Spinal column (for the neck [A63B 23/025](#)) }
- A63B 23/0244 .. { with signalling or indicating means, e.g. of incorrect posture, for deep-breathing exercises }
- A63B 23/025 . for the head or the neck
- A63B 23/03 .. for face muscles
- A63B 23/032 ... { for insertion in the mouth }
- A63B 23/035 . for limbs, i.e. upper or lower limbs, e.g. simultaneously
- A63B 23/03508 .. { For a single arm or leg, ([A63B 21/0726](#) takes precedence) }

WARNING

not complete, pending the completion of a reclassification

- A63B 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 }
- A63B 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) }

A63B 23/03533	...	{ With separate means driven by each limb, i.e. performing different movements }
A63B 23/03541	....	{ Moving independently from each other (A63B 2022/0038 takes precedence) }
A63B 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 }
A63B 23/03558	...	{ Compound apparatus having multiple stations allowing an user to exercise different limbs }
A63B 23/03566	....	{ the multiple stations having a common resistance device }
A63B 23/03575	..	{ Apparatus used for exercising upper and lower limbs simultaneously }
A63B 23/03583	...	{ Upper and lower limbs acting simultaneously on the same operating rigid member }
A63B 23/03591	...	{ Upper and lower limb moving in phase, i.e. right foot moving in the same direction as the right hand }
A63B 23/04	..	for lower limbs { (Training appliances for special sports A63B 69/00 ; For the purpose of producing mechanical power F03G 5/00) }
A63B 23/0405	...	{ involving a bending of the knee and hip joints simultaneously (A63B 23/0476 takes precedence) }
A63B 2023/0411	....	Squatting exercises
A63B 23/0417	....	{ with guided foot supports moving parallel to the body-symmetrical-plane by translation }
A63B 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 }
A63B 23/0429	....	{ with guided foot supports moving parallel to the body-symmetrical-plane by being cantilevered about a horizontal axis }
A63B 2023/0435	.....	( not used)
A63B 2023/0441	.....	cantilevered about two horizontal axes, e.g. parallelogram systems
A63B 2023/0447	.....	the axis being in the body-symmetrical-plane
A63B 2023/0452	.....	the foot support being substantially below said axes
A63B 23/0458	....	{ Step exercisers without moving parts (with movable steps A63B 22/04) }
A63B 23/0464	....	{ Walk exercisers without moving parts (with movable endless bands A63B 22/02) }
A63B 23/047	....	{ Walking and pulling or pushing a load (for exercising the player ability for rugby or American football A63B 69/345) }
A63B 23/0476	...	{ by rotating cycling movement (arrangements on or for real bicycles A63B 69/16) }

WARNING

Group 23/04C is no longer used for classification. Documents are in the process of being reorganised to group [A63B 22/06](#)

A63B 23/0482	...	{ primarily by articulating the hip joints (A63B 23/0211 , A63B 23/0405 , A63B 23/0476 take precedence) }
A63B 23/0488	....	{ by spreading the legs }
A63B 23/0494	...	{ primarily by articulating the knee joints (A63B 23/0405 , A63B 23/0476 take precedence) }

A63B 23/08	...	for ankle joints
A63B 23/085	....	{ by rotational movement of the joint in a plane substantially parallel to the body-symmetrical-plane }
A63B 23/10	...	for feet or toes
A63B 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 15/06) }
A63B 23/1209	...	{ Involving a bending of elbow and shoulder joints simultaneously }
<u>WARNING</u>		
not complete, pending the completion of a reclassification		
A63B 23/1218	....	{ Chinning, pull-up, i.e. concentric movement }
A63B 23/1227	....	{ Dips i.e. push-ups in a vertical position, i.e. eccentric movement, e.g. between parallel bars }
A63B 23/1236	....	{ Push-ups in horizontal position, i.e. eccentric movement }
A63B 23/1245	...	{ Primarily by articulating the shoulder joint (A63B 23/129 takes precedence) }
A63B 23/1254	....	{ Rotation about an axis parallel to the longitudinal axis of the body, e.g. butterfly-type exercises }
A63B 23/1263	....	{ Rotation about an axis passing through both shoulders, e.g. cross-country skiing-type arm movements }
A63B 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 }
A63B 23/1281	...	{ primarily by articulating the elbow joint }
A63B 23/129	...	{ for arm wrestling }
A63B 23/14	...	for wrist joints
A63B 23/16	...	for hands or fingers { (for teaching typing G09B 13/00) }
A63B 23/18	.	for improving respiratory function
A63B 23/185	..	{ Rhythm indicators }
A63B 23/20	.	for vaginal muscles { or other sphincter-type muscles }
A63B 24/00	Electric or electronic controls for exercising apparatus of preceding groups; { Controlling or monitoring of exercises, sportive games, training or athletic performances }	
A63B 24/0003	.	{ Analysing the course of a movement or motion sequences during an exercise or trainings sequence, e.g. swing for golf or tennis }
A63B 24/0006	..	{ Computerised comparison for qualitative assessment of motion sequences or the course of a movement }
A63B 24/0009	...	Computerised real time comparison with previous movements or motion sequences of the user
A63B 24/0012	...	Comparing movements or motion sequences with a registered reference
A63B 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
A63B 24/0018	...	using non electronic means

- A63B 24/0021 . { **Tracking a path or terminating locations** }
- A63B 2024/0025 .. Tracking the path or location of one or more users, e.g. players of a game
- A63B 2024/0028 .. Tracking the path of an object, e.g. a ball inside a soccer pitch
- A63B 2024/0031 ... at the starting point
- A63B 2024/0034 ... during flight
- A63B 2024/0037 .. on a target surface or at impact on the ground
- A63B 2024/004 ... Multiple detectors or sensors each defining a different zone
- A63B 2024/0043 ... Systems for locating the point of impact on a specific surface
- A63B 2024/0046 ... Mechanical means for locating the point of impact or entry
- A63B 2024/005 Keeping track of the point of impact or entry
- A63B 2024/0053 .. for locating an object, e.g. a lost ball
- A63B 2024/0056 .. for statistical or strategic analysis

- A63B 24/0059 . { **Exercising apparatus with reward systems** }

- A63B 24/0062 . { **Monitoring athletic performances, e.g. for determining the work of a user on an exercise apparatus, the completed jogging or cycling distance** }
- A63B 2024/0065 .. Evaluating the fitness, e.g. fitness level or fitness index
- A63B 2024/0068 .. Comparison to target or threshold, previous performance or not real time comparison to other individuals
- A63B 2024/0071 .. Distinction between different activities, movements, or kind of sports performed

- A63B 24/0075 . { **Means for generating exercise programs or schemes, e.g. computerized virtual trainer, e.g. using expert databases** }
- A63B 2024/0078 .. Exercise efforts programmed as a function of time
- A63B 2024/0081 .. Coaching or training aspects related to a group of users

- A63B 24/0084 . { **Exercising apparatus with means for competitions, e.g. virtual races** }

- A63B 24/0087 . { **Electric or electronic controls for exercising apparatus of groups**
[A63B 21/00](#) - [A63B 23/00](#) , e.g. controlling load }
- A63B 2024/009 .. the load of the exercise apparatus being controlled in synchronism with visualising systems, e.g. hill slope
- A63B 2024/0093 .. the load of the exercise apparatus being controlled by performance parameters, e.g. distance or speed
- A63B 2024/0096 .. using performance related parameters for controlling electronic or video games or avatars

- A63B 25/00** **Stilts or the like**

- A63B 25/02 . Elastic stilts { (**devices for balloon jumping** [A63B 5/166](#)) }
- A63B 25/04 . with wheels
- A63B 25/06 . Shoes formed with stilts to elongate the step
- A63B 25/08 . Hopping-sticks, e.g. pogo sticks; { **Hopping apparatus with a single resilient support** (**devices for balloon jumping** [A63B 5/166](#)) }

A63B 25/10 . Elastic bouncing shoes fastened to the foot

A63B 26/00 Exercising apparatus not covered by groups [A63B 1/00](#) to [A63B 25/00](#)

A63B 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](#)) }

A63B 2026/006 . . with feet supports below their pivotal point

Guidance heading: Climbing ; Mountaineering

A63B 27/00 Apparatus for climbing poles, trees, or the like ({ ropes [A63B 29/02](#) } ; safety belts for climbers [A62B 35/00](#) ; { climbing irons permanently attached to fixed structures [E06C 9/04](#) })

A63B 27/02 . Climbing devices for round poles { or trees } attachable to the feet

A63B 27/04 . Climbing devices for profile poles attachable to the feet

A63B 29/00 Apparatus for mountaineering (helmets [A42B 3/00](#) ; non-skid devices or attachments for footwear, e.g. mountain climbing irons [A43C 15/00](#) ; breathing masks or helmets for use at high altitudes [A62B 18/00](#) ; { safety belts or body harnesses [A62B 35/00](#) } ; picks [B25D 7/00](#))

A63B 29/02 . Mountain guy-ropes or accessories, e.g. avalanche ropes { (hooks, e.g. snaphooks, therefor [F16B 45/00](#)) } ; Means for indicating the location of accidentally buried, e.g. snow-buried, persons (detecting hidden masses in general [G01V](#))

NOTE

Contrary to the wording of group [A63B 29/02](#) , devices for lowering persons are classified in [A62B 1/06](#)

A63B 29/021 . . { Means for indicating the location of accidentally buried, e.g. snow-buried, persons (detecting hidden masses in general [G01V](#)) }

A63B 2029/022 . . . with means for automatically activating signal means in case of an avalanche

A63B 29/024 . . { Climbing chocks }

A63B 29/025 . . Ice screws

A63B 29/027 . . { Pitons }

A63B 29/028 . . { Ropes specially adapted for mountaineering }

A63B 29/08 . Hand equipment for climbers

Guidance heading: Swimming

A63B 31/00 Swimming aids (teaching swimming [A63B 69/10](#) to [A63B 69/14](#) ; life-saving in water, { e.g. life-buoys, life-belts } , [B63C 9/00](#))

- A63B 31/02 . Swimming gloves
- A63B 31/04 . . with arrangements for enlarging the propulsive surface
- A63B 31/08 . Swim fins, flippers or other swimming aids held by, or attachable to, the hands, arms, feet or legs ([A63B 31/18](#) takes precedence; worn as gloves [A63B 31/02](#))
- A63B 31/10 . . held by, or attachable to, the hands or feet
- A63B 31/11 . . . attachable only to the feet
- A63B 2031/112 with means facilitating walking, e.g. retractable, detachable or pivotable blades
- A63B 2031/115 with blade at an angle to the plane of the foot when in use, e.g. to reduce plantar flexion
- A63B 2031/117 with blade lying substantially in the body-symmetrical plane, e.g. for breast stroke
- A63B 31/12 . . held by, or attachable to, the arms or legs
- A63B 31/14 . . with valve-flaps
- A63B 31/18 . Swimming appliances with propulsive effect for hands and feet simultaneously

A63B 33/00 **Swimming equipment attachable to the head, e.g. swim caps or goggles (diving masks [B63C 11/12](#) ; breathing aids, e.g. snorkels, [B63C 11/18](#))**

- A63B 33/002 . { **Swimming goggles (with means covering the nostrils [B63C 11/12](#))** }
- A63B 2033/004 . . comprising two separate lenses joined by a flexible bridge
- A63B 2033/006 . . . means allowing adjustment of the bridge
- A63B 2033/008 stepless adjustment

A63B 35/00 **Swimming framework, { i.e. apparatus fixed to or held by the swimmer or diver }, with driving mechanisms operated by the swimmer or by a motor (other vessels or like floating structures for pleasure or sport [B63B 35/71](#) , [B63B 35/73](#) ; 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](#)

- A63B 35/02 . shaped like a fish tail
- A63B 35/04 . with paddle wheels
- A63B 35/06 . with twin-bladed paddles or buoyant members
- A63B 35/08 . with propeller propulsion
- A63B 35/10 . . operated by the swimmer
- A63B 35/12 . . operated by a motor

A63B 35/125 . . . { the motor being driven by compressed air carried by the swimmer }

Guidance heading: Balls

A63B 37/00 **Solid balls;** { Rigid hollow balls } ; **Marbles** (heavy throwing balls [A63B 65/06](#))

A63B 37/0001 . { Balls with finger holes, e.g. for bowling }

A63B 37/0002 . . { Arrangements for adjusting, improving or measuring the grip, i.e location, size, orientation or the like of finger holes }

A63B 37/0003 . { Golf balls (for practising drives [A63B 69/3655](#) , for practising puts [A63B 69/3688](#)) }

WARNING

Subgroups of [A63B 37/0003](#) are not complete pending reclassification; see also this group

A63B 37/0004 . . { Surface depressions or protrusions }

A63B 37/0005 . . . { Protrusions }

A63B 37/0006 . . . { Arrangement or layout of dimples }

A63B 37/0007 . . . { Non-circular dimples }

A63B 37/0008 { Elliptical }

A63B 37/0009 { Polygonal }

A63B 37/001 { Annular }

A63B 37/0011 { Grooves or lines }

A63B 37/0012 . . . { Dimple profile, i.e. cross-sectional view }

A63B 37/0013 { The dimple being formed in both the cover and the underlying layer }

A63B 37/0015 { with sub-dimples formed within main dimples }

A63B 37/0016 . . . { Specified individual dimple volume }

A63B 37/0017 . . . { Specified total dimple volume }

A63B 37/0018 . . . { Specified number of dimples }

A63B 37/0019 . . . { Specified dimple depth }

A63B 37/002 . . . { Specified dimple diameter }

A63B 37/0021 . . . { Occupation ratio, i.e. percentage surface occupied by dimples }

A63B 37/0022 . . { Coatings, markings (methods for marking [A63B 45/02](#)) }

A63B 37/0023 . . { Covers }

A63B 37/0024 . . . { Materials other than ionomers or polyurethane }

A63B 37/0025 { Gutta-percha }

A63B 37/0026 { Balata }

A63B 37/0027 { Polyurea }

A63B 37/0029 . . . { Physical properties }

A63B 37/003 { Coefficient of restitution }

A63B 37/0031 { Hardness }

A63B 37/0032 { Hardness gradient }

A63B 37/0033	....	{ Thickness }
A63B 37/0034	....	{ Deflection or compression }
A63B 37/0035	....	{ Density; Specific gravity }
A63B 37/0036	....	{ Melt flow rate (MFR) }
A63B 37/0037	....	{ Flexural modulus; Bending stiffness }
A63B 37/0038	..	{ Intermediate layers, e.g. inner cover, outer core, mantle }
A63B 37/0039	...	{ Special materials }
A63B 37/004	...	{ Physical properties }
A63B 37/0041	....	{ Coefficient of restitution }
A63B 37/0043	....	{ Hardness }
A63B 37/0044	.....	{ Hardness gradient }
A63B 37/0045	....	{ Thickness }
A63B 37/0046	....	{ Deflection or compression }
A63B 37/0047	....	{ Density; Specific gravity }
A63B 37/0048	....	{ Melt flow rate (MFR) }
A63B 37/0049	....	{ Flexural modulus; Bending stiffness }
A63B 37/005	..	{ Cores }
A63B 37/0051	...	{ Special materials other than polybutadienes; Special construction }
A63B 37/0052	....	{ Liquid cores }
A63B 37/0053	....	{ Thread wound }
A63B 37/0054	....	{ Substantially rigid, e.g. metal }
A63B 37/0055	....	{ with non-spherical insert(s) }
A63B 37/0056	....	{ Hollow; Gas-filled }
A63B 37/0058	....	{ Polyurethane }
A63B 37/0059	....	{ Ionomer }
A63B 37/006	...	{ Physical properties }
A63B 37/0061	....	{ Coefficient of restitution }
A63B 37/0062	....	{ Hardness }
A63B 37/0063	.....	{ Hardness gradient }
A63B 37/0064	....	{ Diameter }
A63B 37/0065	....	{ Deflection or compression }
A63B 37/0066	....	{ Density; Specific gravity }
A63B 37/0067	....	{ Weight; Mass }
A63B 37/0068	....	{ Initial velocity }
A63B 37/0069	....	{ Flexural modulus }
A63B 37/007	..	{ Characteristics of the ball as a whole }
A63B 37/0072	...	{ with a specified number of layers }
A63B 37/0073	....	{ Solid, i.e. formed of a single piece }
A63B 37/0074	....	{ Two piece balls, i.e. cover and core }
A63B 37/0075	....	{ Three piece balls, i.e. cover, intermediate layer and core }
A63B 37/0076	....	{ Multi-piece balls, i.e. having two or more intermediate layers }
A63B 37/0077	...	{ Physical properties }

A63B 37/0078	....	{ Coefficient of restitution }
A63B 2037/0079	....	Compression
A63B 37/008	....	{ Diameter }
A63B 37/0081	....	{ Deflection }
A63B 37/0082	....	{ Density; Specific gravity }
A63B 37/0083	....	{ Weight; Mass }
A63B 37/0084	....	{ Initial velocity }
A63B 37/0086	....	{ Flexural modulus }
A63B 37/0087	....	{ Deflection or compression }
A63B 37/0088	....	{ Frequency }
A63B 37/0089	....	{ Coefficient of drag }
A63B 37/009	....	{ Coefficient of lift }
A63B 37/0091	....	{ Density distribution amongst the different ball layers }
A63B 37/0092	....	{ Hardness distribution amongst the different ball layers }
A63B 37/0093	....	{ Moisture vapour transmission rate (MVTR) }
A63B 37/0094	....	{ Rebound resilience }
A63B 37/0095	....	{ Scuff resistance }
A63B 37/0096	....	{ Spin rate }
A63B 37/0097	....	{ Layers interlocking by means of protrusions or inserts, lattices or the like }
A63B 37/0098	.	{ Rigid hollow balls, e.g. for pétanque }
A63B 37/02	.	Special cores { (A63B 37/0001 , A63B 37/0003 take precedence) }
A63B 37/04	..	Rigid cores
A63B 37/06	..	Elastic cores
A63B 2037/065	...	Foam
A63B 37/08	..	Liquid cores ; Plastic cores
A63B 2037/082	...	Granular, eg comprising beads
A63B 2037/085	...	liquid, jellylike
A63B 2037/087	...	Wound cores or layers
A63B 37/10	..	with eccentric centre of gravity
A63B 37/12	.	Special coverings, { i.e. outer layer material (A63B 37/0001 , A63B 37/0003 take precedence) }
A63B 2037/125	..	stitchings
A63B 37/14	.	Special surfaces { (A63B 37/0004 takes precedence) }
A63B 39/00		Hollow non-inflatable balls, { i.e. having no valves (rigid balls A63B 37/00) }
A63B 2039/003	.	substantially hollow and pressureless
A63B 2039/006	.	pressurised
A63B 39/02	.	Arrangements for maintaining the pressure

- A63B 2039/022 . . . using special gas-impermeable layers
- A63B 39/025 . . . { using containers with pressurising means for balls not in use (packages under vacuum or pressure, or special atmospheres [B65D 81/20](#)) }
- A63B 39/027 . . . { using special inflation gases }
- A63B 39/04 . . . Pricking-balls; { Tools for blowing them up }
- A63B 39/06 . . . Special coverings
- A63B 39/08 . . . made of two halves
- A63B 41/00** **Hollow inflatable balls** (connecting valves to inflatable elastic bodies [B60C 29/00](#) ; valves, e.g. self-closing valves [F16K](#))
- A63B 2041/005 . . . with counterweight for adjusting the centre of gravity
- A63B 41/02 . . . Bladders
- A63B 41/04 . . . Closures therefor
- A63B 41/08 . . . Ball covers ; Closures therefor
- A63B 41/085 . . . { Closures }
- A63B 41/10 . . . Bladder and cover united
- A63B 41/12 . . . Tools or devices for blowing up or closing balls ({ for pricking-balls [A63B 39/04](#) } ; air pumps [F04](#))
- A63B 43/00** **Balls with special arrangements**
- A63B 2043/001 . . . Short-distance or low-velocity balls for training, or for playing on a reduced area
- A63B 43/002 . . . { with special configuration, e.g. non-spherical (discs for throwing [A63B 65/10](#)) }
- A63B 43/004 . . . { electrically conductive, e.g. for automatic arbitration }
- A63B 43/005 . . . { with adhesive type surfaces, e.g. hook-and-loop type fastener }
- A63B 43/007 . . . { Arrangements on balls for connecting lines or cords }
- A63B 43/008 . . . { with means for improving visibility, e.g. special markings or colours (illuminating or reflecting means [A63B 43/06](#)) }
- A63B 43/02 . . . with a handle
- A63B 43/04 . . . with an eccentric centre of gravity ; with mechanism for changing the centre of gravity (solid balls [A63B 37/10](#) ; { motorised rolling toys [A63H 33/005](#) })
- A63B 43/06 . . . with illuminating devices; { with reflective surfaces }
- A63B 45/00** **Apparatus or methods for manufacturing balls** (working of plastics or substances in a plastic state [B29](#))

- A63B 45/02 . Marking of balls
- A63B 47/00** **Devices for handling or treating balls, { e.g. for holding or carrying balls (for maintaining ball pressure [A63B 39/02](#) ; ball holders combined with racket presses [A63B 49/16](#) , with racket covers or cases [A63B 49/18](#) , fitted on golf bags [A63B 55/02](#)) }**
 - A63B 47/001 . { Ball holders attached to the player`s body }
 - A63B 47/002 . { Devices for dispensing balls, e.g. from a reservoir (automatic teeing devices [A63B 57/0006](#) ; devices for projecting balls [A63B 69/40](#)) }
 - A63B 2047/004 . . having means preventing bridge formation during dispensing
 - A63B 47/005 . { Ball heating devices }
 - A63B 47/007 . { Devices for carrying, stacking or transporting bowling balls }
 - A63B 47/008 . { Devices for measuring or verifying ball characteristics (measuring or testing in general [G01](#)) }
 - A63B 47/02 . for picking-up { or collecting }
 - A63B 47/021 . . { for picking-up automatically, e.g. by apparatus moving over the playing surface }
 - A63B 2047/022 . . . Autonomous machines which find their own way around the playing surface
 - A63B 47/024 . . { for collecting by using a sweeping means moving across the playing surface }
 - A63B 47/025 . . { Installations continuously collecting balls from the playing areas, e.g. by gravity, with conveyer belts }
 - A63B 2047/027 . . . Hydraulic ball transport
 - A63B 2047/028 . . . pneumatic ball transport
 - A63B 47/04 . for cleaning balls (apparatus for cleaning balls, as accessories for bowling- or table alleys [A63D 5/10](#))
 - A63B 2047/043 . . with drying means
 - A63B 2047/046 . . Motorised

Guidance heading: Rackets, bats, or other accessories for ball games

A63B 49/00 **Tennis, badminton, or like rackets**

WARNING

Group [A63B 49/00](#) M, [A63B 49/06](#) are not complete pending a reclassification. See also this group, its subgroups and other groups of [A63B](#)

- A63B 49/002 . { String guides on frames }
- A63B 49/005 . { Means for clamping string ends on frames }
- A63B 49/007 . { Means for achieving greater mobility of the string bed }

- A63B 49/02 . Frames
- A63B 2049/0205 . . comprising at least two similar parts assembled with the interface plane parallel to the string plane
- A63B 2049/0211 . . with variable thickness of the head in a direction perpendicular to the string plane
- A63B 2049/0217 . . with variable thickness of the head in the string plane
- A63B 2049/0223 . . with defined head dimensions
 - A63B 2049/0229 . . . surface area
 - A63B 2049/0235 . . . height
 - A63B 2049/0241 . . . width
- A63B 2049/0247 . . with defined overall length
- A63B 2049/0252 . . with defined weight
 - A63B 2049/0258 . . . without strings
 - A63B 2049/0264 head only
- A63B 49/027 . . { Throat section, i.e. sections and elements between head and handle }
- A63B 49/0276 . . . { T-shaped connection elements between head and handle }
- A63B 2049/0282 . . . with two legs having mutually different constructions
- A63B 49/0288 . . { with easily dismountable parts, e.g. head, handle or grip }
- A63B 49/0294 . . { with head subframes for replacing the stringing }
- A63B 49/04 . . with balancing devices { ([A63B 59/0092](#) , [A63B 59/0096](#) take precedence) }
- A63B 49/06 . . with slits { (slits for guiding strings [A63B 49/002](#) ; slits for cooling or ventilation [A63B 59/0037](#)) }
- A63B 49/08 . . with special construction of the handle
- A63B 49/10 . . made of non-metallic materials, other than wood
 - A63B 2049/103 . . . string holes produced during moulding process
 - A63B 49/106 . . . { with inflatable tubes, e.g. inflatable during fabrication }
- A63B 49/12 . . made of metal
- A63B 49/14 . . Protection devices on the frame

- A63B 49/16 . Presses, { e.g. with ball holders (ball holders in general [A63B 47/00](#)) }
- A63B 49/18 . Covers { or cases, e.g. with ball holders (ball holders in general [A63B 47/00](#)) }

- A63B 51/00 Stringing tennis rackets { (string guides on frames [A63B 49/002](#) ; clamping strings on frames [A63B 49/005](#)) }**
- A63B 2051/001 . using strings with different characteristics, e.g. gut and nylon, on the same frame
- A63B 2051/002 . using strings with different cross-sections, e.g. different thickness, on the same frame
- A63B 2051/004 . using strings with different tension on the same frame
- A63B 51/005 . { Devices for measuring the tension of the string (for controlling the tension during stringing [A63B 51/14](#) ; measuring force, in general [G01L](#)) }
- A63B 51/007 . { Pre-woven string-sets ready for insertion into a frame }

- A63B 51/008 . { String aligning tools for rackets }
- A63B 51/02 . Strings ; String substitutes; { Products applied on strings, e.g. for protection against humidity or wear (ropes or cables in general [D07B](#) ; yarns or threads for use in sports applications [D02G 3/444](#) ; mechanical methods or apparatus in the manufacture of artificial filaments, threads, fibres, bristles or ribbons [D01D](#) ; strings for musical instruments [G10D 3/10](#)) }
- A63B 2051/023 . . with characteristics, e.g. diameter, elasticity varying along the length of the string
- A63B 2051/026 . . with non-circular cross-section
- A63B 51/04 . . Sheet-like structures used as substitutes
- A63B 2051/045 . . . wooden blade with perforations
- A63B 51/06 . Double-sided stringings
- A63B 51/08 . Diagonal stringings
- A63B 51/10 . Reinforcements for stringings
- A63B 51/105 . . { Intermediate members for string cross-points }
- A63B 51/12 . Devices arranged in or on the racket for adjusting the tension of the strings
- A63B 51/14 . Devices for stringing, { e.g. controlling the tension of the string during stringing }
- A63B 2051/143 . . Hand-Held string-tensioning devices
- A63B 2051/146 . . Devices simultaneously raising and lowering alternate longitudinal strings previously mounted in a frame, to facilitate the threading of the crosstrings
- A63B 53/00** **Golf clubs** { (cleaning or maintenance [A63B 57/0087](#) ; measuring, verifying or correcting golf-club characteristics [A63B 59/0074](#) ; clubs or attachments on clubs for golf training [A63B 69/3632](#)) }
- A63B 2053/002 . Clubs made of composite, plastics or rubber materials, with integral head and shaft
- A63B 2053/005 . Club sets
- A63B 53/007 . { Putters }
- A63B 53/02 . Joint structures between the head and the shaft
- A63B 2053/021 . . the shaft axis being forwardly offset relative to the striking face of the head
- A63B 2053/022 . . allowing adjustable positioning of the head with respect to the shaft
- A63B 2053/023 . . . adjustable angular orientation
- A63B 2053/025 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
- A63B 2053/026 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
- A63B 2053/027 about the longitudinal axis of the shaft only
- A63B 2053/028 . . . with a range of alternative attachment points for the shaft

- A63B 53/04 . Heads
- A63B 2053/0404 ..
- A63B 2053/0408 .. with defined dimensions
- A63B 2053/0412 ... Volume
- A63B 2053/0416 .. Heads with an impact surface provided by a face insert
- A63B 2053/042 ... the face insert consisting of a material different from that of the head
- A63B 2053/0425 the face insert comprising two or more different materials
- A63B 2053/0429 ... the face insert comprising two or more layers of material
- A63B 2053/0433 .. with special sole configurations
- A63B 2053/0437 ... with special crown configurations

WARNING

not complete, pending the completion of a reclassification

- A63B 2053/0441 .. with visual indicators for aligning the golf club
- A63B 2053/0445 .. Details of grooves or the like on impact surface
- A63B 2053/045 .. Strengthening ribs
- A63B 2053/0454 ... Strengthening ribs on the rear surface of the impact face plate
- A63B 2053/0458 .. with non-uniform thickness of the impact face plate
- A63B 2053/0462 ... characterised by tapering thickness of the impact face plate
- A63B 53/0466 .. { wood-type }
- A63B 53/047 .. { iron-type }
- A63B 53/0475 ... { with one or more enclosed cavities }
- A63B 2053/0479 ... Wedge-type clubs, details thereof
- A63B 2053/0483 ... Chipping clubs, details thereof
- A63B 53/0487 .. { for putters ([A63B 53/065](#) takes precedence) }
- A63B 2053/0491 .. with added weights, e.g. changeable, replaceable
- A63B 2053/0495 ... moving on impact, slidable, spring or otherwise elastically biased
- A63B 53/06 .. adjustable
- A63B 53/065 ... { for putters }
- A63B 53/08 . with special arrangements for obtaining a variable impact
- A63B 53/10 . { Shafts, e.g. } non-metallic shafts { ([metallic A63B 53/12](#)) }
- A63B 53/12 . Metallic shafts
- A63B 53/14 . Handles
- A63B 53/145 .. { Weighted handles }
- A63B 53/16 .. adjustable

A63B 55/00 Bags for golf clubs ; Stands for golf clubs for use on the course

- A63B 2055/001 . Warning devices for indicating missing golf clubs

- A63B 2055/002 . Security means for locking golf clubs in the bag
- A63B 55/004 . { Covers or hoods for golfbags }
- A63B 55/005 . . { releasably attached }
- A63B 55/007 . { Covers for golf club heads; Connector means therefor }
- A63B 55/008 . { Releasably mounted accessories fitted outside the bag, e.g. straps or holders ([A63B 55/02](#) and [A63B 55/04](#) take precedence; covers for golfbags [A63B 55/004](#) ; covers for club heads [A63B 55/007](#)) }
- A63B 55/02 . with special { or detachable } receptacles for the balls
- A63B 55/04 . Supports, { e.g. } with devices for anchoring to the ground
- A63B 55/045 . . { Legs opening automatically upon putting the bag on the ground }
- A63B 55/08 . Wheeled carriers for golf bags (running gear or propulsion features [B60](#) ; { insofar as the features thereof are generic to hand carts [B62B](#) })
- A63B 2055/081 . . Caddies fitted with means for sitting
- A63B 2055/082 . . Means for mounting weather shields, e.g. umbrellas, on caddies
- A63B 2055/083 . . with means for trailing the caddy other than by hand
- A63B 2055/085 . . . by mechanical links attached to the golf players
- A63B 2055/086 . . . by remote control
- A63B 55/087 . . { motorised }
- A63B 2055/088 . . . Units for converting manually-driven golf carts into motorised ones
- A63B 55/10 . Stands for golf clubs, { e.g. } for use on the course; { Golf club holders, racks or presses }

A63B 57/00 Golf game accessories, e.g. golf cups, golf tees

- A63B 57/0006 . { Automatic teeing devices (devices for automatically dispensing balls in general [A63B 47/002](#)) }
- A63B 57/0012 . { Devices for forming the tees }
- A63B 57/0018 . { Tees; Tee-holders; Devices for inserting or extracting tees }
- A63B 2057/0025 . . With adjustable height
- A63B 57/0031 . . { Tee-holders (to be fitted on golf bags or caddies [A63B 55/008](#)) ; Tee-gauges; Tee-repairing devices }
- A63B 57/0037 . . { Devices for inserting or extracting tees }
- A63B 57/0043 . . { Brush-type tee }

WARNING

Not complete, pending the reclassification; see also other subgroups of [A63B 57/00](#)

- A63B 57/005 . . { Tethered to something, e.g. ground or second body }

WARNING

Not complete, pending the reclassification; see also other subgroups of [A63B 57/00](#)

- [A63B 57/0056](#) . { Cups (with automatic ball ejector [A63B 57/0062](#)) ; Hole or ball traps; Markers therefor, e.g. flags }
- [A63B 57/0062](#) . { Cups with automatic ball ejector means }
- [A63B 57/0068](#) . { for maintenance or repairing, e.g. of courts, greens, sands }
- [A63B 57/0075](#) . { Golf ball position markers or marker-holders }
- [A63B 57/0081](#) . { Hole information stands, e.g. tee-boxes }
- [A63B 57/0087](#) . { Cleaning or maintenance of golf-clubs, putters, shoes or other golf accessories (cleaning balls [A63B 47/04](#) ; cleaning grips [A63B 59/0062](#) ; cleaning footwear in general [A47L 23/00](#)) }
- [A63B 2057/0093](#) . . Means for heating or drying golf clubs

A63B 59/00

Bats, rackets, or the like, for other games (bats with a ball tethered thereto [A63B 67/20](#)) ; { Hand-held throwing or catching aids; Details or accessories of bats, rackets or the like, not limited to one of the groups [A63B 49/00](#) to [A63B 57/00](#) , or not otherwise provided for }

WARNING

Groups [A63B 59/0025](#) to [A63B 59/0012](#) , [A63B 59/00 R](#) , [A63B 59/00 V](#) , [A63B 59/00 T](#) , [A63B 59/0096](#) are not complete pending a reclassification. See also this group, its subgroups and other groups of [A63B](#)

- [A63B 2059/0003](#) . Resonance frequency related characteristics
- [A63B 2059/0007](#) . Striking surfaces coated with high-friction abrasive material
- [A63B 2059/0011](#) . having special surfaces reducing air resistance
- [A63B 59/0014](#) . { Handles or grips ([A63B 49/08](#) takes precedence) }
- [A63B 2059/0018](#) . . Devices measuring hand characteristics to determine correct grip size
- [A63B 2059/0022](#) . . Means for indicating or measuring the pressure on the grip
- [A63B 59/0025](#) . . { contoured according to the anatomy of the user's hand }

WARNING

Not complete, pending the completion of a reclassification

- [A63B 59/0029](#) . . { Coverings specially adapted therefor, e.g. sleeves, ribbons }

WARNING

Not complete, pending the completion of a reclassification]

A63B 59/0033 . . { Caps, ferrules }

WARNING

Not complete, pending the completion of a reclassification

A63B 59/0037 . . { with grooves or holes for cooling, ventilating or sweat-reduction; with powder dispensers }

WARNING

Not complete, pending the completion of a reclassification

A63B 59/004 . . { with two handgrips }

WARNING

Not complete, pending the completion of a reclassification

A63B 59/0044 . . { adjustable in length }

WARNING

Not complete, pending the completion of a reclassification

A63B 59/0048 . . { with adjustable perimetric length }

WARNING

Not complete, pending the completion of a reclassification

A63B 59/0051 . . { with means for changing the angular position of the handle about its longitudinal axis }

WARNING

Not complete, pending the completion of a reclassification

A63B 59/0055 . . { the handle axis being different from the main axis of the bat or racket }

WARNING

Not complete, pending the completion of a reclassification

A63B 59/0059 . . { adjustable in stiffness }

WARNING

Not complete, pending the completion of a reclassification

A63B 59/0062 . { Devices for cleaning handles or grips }

- A63B 59/0066 . { Bats or rackets having ball-dispensing means }
- A63B 59/007 . { Bats or rackets with holding means provided inside, on the edge or on the rear face of the the striking surface ([A63B 59/02](#) and [A63B 59/04](#) take precedence) }
- A63B 59/0074 . { Devices for measuring, verifying, correcting or customizing characteristics of golf-clubs, bats or rackets (having a weight movable along the longitudinal axis of the club due to centrifugal forces [A63B 15/005](#)) }
- A63B 59/0077 . { corrugated cross sections }

WARNING

Not complete, pending the completion of a reclassification

- A63B 2059/0081 . Substantially flexible shafts, hinged shafts
- A63B 2059/0085 . Telescopic shafts
- A63B 59/0088 . { Bats with through holes }
- A63B 59/0092 . { Means for damping vibration ([A63B 15/005](#) takes precedence) }
- A63B 59/0096 . { Movable ballast means for varying the centre of mass during the stroke, e.g. by centrifugal force ([A63B 15/005](#) takes precedence; weights set in movement on impact of the ball for damping vibrations [A63B 59/0092](#)) }
- A63B 59/02 . for lacrosse, pelota or similar games; { Bats or rackets having means for catching or holding a ball, e.g. pockets, netting, adhesive type surface; Hand-held throwing or catching aids (juggling games with integral catching arrangements [A63B 67/083](#)) }
- A63B 59/025 . . { 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 }
- A63B 59/04 . for table tennis
- A63B 59/06 . for baseball, rounders, or similar games
- A63B 2059/065 . . with a continuously tapered barrel
- A63B 59/08 . for cricket
- A63B 59/10 . for croquet; { Mallet-form bats (polo mallets [A63B 59/16](#)) }
- A63B 59/12 . for hockey, { e.g. hurley sticks }
- A63B 59/14 . for ice hockey { ([A63B 59/12](#) takes precedence) }
- A63B 59/16 . for polo
- A63B 59/18 . Circular { or similar planar } bats for other games { not covered by groups [A63B 59/02](#) to [A63B 59/16](#) }
- A63B 59/185 . . { Paddles for paddle tennis, pádel tennis or platform tennis (stringed rackets for

tennis or the like [A63B 49/00](#)) }

- A63B 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](#)) }**
- [A63B 61/003](#) . { Nets for tennis or like games or accessories therefor (straining or adjusting devices on the posts [A63B 61/02](#)) }
- [A63B 61/006](#) . . { Accessories for training purposes mounted on the net }
- [A63B 61/02](#) . Posts ; Revolvably-mounted posts; { Straining or adjusting devices on the posts, e.g. coin- or time operated }
- [A63B 2061/025](#) . . electrically driven
- [A63B 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](#)) }
- A63B 63/00** **Targets or goals for ball games (golf cups [A63B 57/00](#))**
- [A63B 2063/001](#) . Targets or goals with ball-returning means
- [A63B 2063/002](#) . variable in size
- [A63B 63/003](#) . non-electronic means for locating the point of impact on a target or the point of entry in the goal
- [A63B 63/004](#) . { Goals of the type used for football, handball, hockey or the like }
- [A63B 2063/005](#) . . having means not protruding from the profile of the post for attachment of a net
- [A63B 2063/006](#) . Forming a target or goal by fixing net or target area to garage doorway or garage parts
- [A63B 63/007](#) . { Target zones without opening defined on a substantially horizontal surface }
- [A63B 63/008](#) . { Goals for rugby or American football }
- [A63B 63/06](#) . Revolving targets; { Moving targets, e.g. moving or revolving on impact }
- [A63B 2063/065](#) . . movable or switchable between discrete positions, e.g. after a successful shot
- [A63B 63/08](#) . with { substantially } horizontal opening for ball, e.g. for basketball { ([A63B 57/0056](#) , [A63B 63/06](#) take precedence) }
- [A63B 63/083](#) . . { for basketball }
- [A63B 2063/086](#) . . . deflectable under excessive loads
- A63B 65/00** **Implements for throwing (throwing toys [A63H 33/18](#) ; throwing weapons [F41B](#)) ; { Mechanical projectors, e.g. using spring force }**
- [A63B 65/02](#) . Spears or the like; { Javelins (darts [F42B 6/003](#)) }
- [A63B 65/04](#) . Throwing-hammers
- [A63B 65/06](#) . Heavy throwing-balls, { i.e. "medicine balls", shots, weights or stones for putting }

- A63B 65/08 . Boomerangs; { Throwing apparatus therefor }
- A63B 65/10 . Discus discs ; Quoits { (flying disc toys [A63H 33/18](#)) }
- A63B 65/12 . Ball-throwing apparatus with or without catchers; { (hand-held throwing or catching aids [A63B 59/02](#)) ; Mechanical projectors, e.g. using spring force }
- A63B 65/122 . . { Hand-held mechanical projectors, e.g. for balls }
- A63B 65/125 . . . { with handles or grips on both sides of the catching-throwing means, for two-handed use }
- A63B 65/127 . . { Means for throwing or catching balls, attached to the foot }

- A63B 67/00** **Miscellaneous sporting games**

- A63B 67/002 . { Games using balls, not otherwise provided for }
- A63B 2067/005 . . Games similar to volleyball or basketball and played on trampolines or the like, e.g. "Spaceball" or "Aeroball"

- A63B 67/007 . { played in water }

- A63B 67/02 . Special golf games, e.g. miniature golf, { e.g. golf putting games played on putting tracks; putting practice apparatus having an elongated platform as a putting track (mats for golf practice [A63B 69/3661](#)) }
- A63B 2067/025 . . with incorporated means acting on the track surface for varying its topography, e.g. slope

- A63B 67/04 . Table games physically beneficial for the human body, modelled on outdoor sports, e.g. table tennis ({ tables for table tennis [A47B 25/003](#) } ; other table games [A63F](#))
- A63B 67/045 . . { Supports for table tennis nets }

- A63B 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 }
- A63B 2067/061 . . Means to mark out tossing area
- A63B 2067/063 . . tossing, e.g. rings or horseshoes around or on, e.g. posts, hooks
- A63B 2067/065 . . used tossed devices of different sizes giving different degrees of difficulty for fitting in or over a target
- A63B 67/066 . . { using balls on a horizontal playing ground, e.g. petanque }
- A63B 67/068 . . . { Devices used therewith for measuring distance or difference in distance }

- A63B 67/08 . Juggling or spinning ball games played as games of skill; { Juggling games (games using tethered bodies, e.g. balls [A63B 67/10](#) , [A63B 67/20](#)) }
- A63B 67/083 . . { Juggling games with integral catching or bouncing arrangements }
- A63B 67/086 . . { Juggling games using sticks or discs }

- A63B 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 [A63D 7/00](#)) ; { Games using tethered bodies, e.g. balls, not otherwise provided for }

- A63B 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 }

- A63B 67/14 . Curling stone ; Shuffleboard ; Similar sliding games
- A63B 2067/142 .. with braking means
- A63B 2067/144 ... variable
- A63B 2067/146 .. Stones with rolling elements
- A63B 67/148 .. { Curling brooms or brushes }

- A63B 67/16 . Tethered aerial top or spinner games, { i.e. diabolo games }
- A63B 2067/163 .. Details (Not used)
- A63B 2067/166 ... the diabolo being able to rotate freely in one direction only, e.g. fitted with an over-running clutch

- A63B 67/18 . Badminton, shuttlecock, or like games with feathered missiles

- A63B 67/20 . Games using a bat { or racket } with a { body, e.g. a } ball tethered thereto
- A63B 67/205 .. { the bat having one or more spigots for catching bodies having a bore, e.g. rings }
- A63B 67/22 .. the bat { or racket } having one or more holes { or pockets } therein, { e.g. for catching or collecting the ball; the bat comprising a ring or cup having a handle }

- A63B 69/00** **Training appliances or apparatus for special sports (training of parachutists [B64D 23/00](#))**

- A63B 69/0002 . { for baseball }
- A63B 2069/0004 .. specially adapted for particular training aspects
- A63B 2069/0006 ... for pitching
- A63B 2069/0008 ... for batting
- A63B 2069/0011 ... Catching
- A63B 69/0013 .. { Baseball bases }

- A63B 69/0015 . { for cricket }

- A63B 69/0017 . { for badminton }

- A63B 69/002 . { for football (American-football dummies [A63B 69/345](#)) }

- A63B 69/0022 . { for skating }

- A63B 69/0024 . { for hockey }
- A63B 69/0026 .. { for ice-hockey }

- A63B 69/0028 . { for running, jogging or speed-walking (movable endless bands [A63B 22/02](#)) }
- A63B 2069/0031 .. Speed-walking
- A63B 2069/0033 ... Nordic walking, i.e. using poles for walking
- A63B 69/0035 .. { on the spot }
- A63B 2069/0037 .. safety devices, eg. warning bells, rear-view mirrors

- A63B 69/004 . { for the martial arts, e.g. karate, judo ([A63B 69/20](#) , [A63B 69/34](#) take precedence) }

- A63B 2069/0042 . . Breaking boards or holders therefore, i.e. devices for destroying exercises
- A63B 2069/0044 . . Fake or disarmed practise weapons, i.e. for mimicking combat situations
- A63B 69/0046 . { for bowling }
- A63B 69/0048 . { for mountaineering, e.g. climbing-walls, grip elements for climbing-walls }
- A63B 69/0051 . { not used, see subgroups and [A63B 69/00](#) }
- A63B 69/0053 . . { Apparatus generating random stimulus signals for reaction-time training involving a substantial physical effort (testing reaction time [A61B 5/162](#) ; reaction-time games [A63F 9/0096](#)) }
- A63B 2069/0055 . . . with means for distracting the user, e.g. visual or audio means
- A63B 69/0057 . . { Means for physically limiting movements of body parts ([A63B 23/0211](#) takes precedence) }
- A63B 69/0059 . . . { worn by the user }
- A63B 2069/0062 . . . Leg restraining devices
- A63B 69/0064 . . { Attachments on the trainee preventing falling }
- A63B 69/0066 . { for wind-surfing }
- A63B 69/0068 . { for bull-fighting, or animal-roping }
- A63B 69/0071 . { for basketball }
- A63B 69/0073 . { Means for releasably holding a ball in position; Balls constrained to move around a fixed point, e.g. by tethering (not used, see subgroups and [A63B 69/00](#)) }
- A63B 69/0075 . . { Means for releasably holding a ball in position prior to kicking, striking or the like (golf tees [A63B 57/0018](#)) }
- A63B 2069/0077 . . Suspending a ball on an upright stream of air or water
- A63B 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](#)) }
- A63B 2069/0082 . . with movement of the cord-attachment along its rotational axis as a function of the number of revolutions, e.g. following a helical member
- A63B 69/0084 . . . { the line or cord being fixed to at least two points }
- A63B 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](#)) }
- A63B 69/0088 . . . { the line or cord having a handle }
- A63B 69/0091 . . { Balls fixed to a movable, tiltable or flexible arm }
- A63B 69/0093 . { for surfing, i.e. without a sail; for skate or snow boarding }
- A63B 69/0095 . { for volley-ball }
- A63B 69/0097 . { Ball rebound walls (with holes or in combination with nets [A63B 63/00](#)) }
- A63B 69/02 . for fencing, { e.g. means for indicating hits (fencing foils, sabres or epees [F41B 13/02](#)) }
- A63B 2069/025 . . with conductive floor used as part of the detection circuit

- A63B 69/04 . . . simulating the movement of horses ([toy animals for riding A63G 19/00](#))
- A63B 69/06 . . . for rowing or sculling
- A63B 2069/062 . . . by pulling on a cable
- A63B 2069/064 . . . with pivoting handlebars
- A63B 2069/066 . . . with handlebars rotating about a horizontal axis
- A63B 2069/068 . . . kayaking, canoeing
- A63B 69/08 . . . with water-filled pools
- A63B 69/10 . . . Swimming instruction apparatus for use without water
- A63B 69/12 . . . Arrangements in swimming pools for teaching swimming { [or for training](#) }
- A63B 69/125 . . . { [Devices for generating a current of water in swimming pools](#) }
- A63B 69/14 . . . Teaching frames for swimming; { [Swimming boards \(life-buoys, life-belts B63C 9/08 \)](#) }
- A63B 69/16 . . . for cycling, { [i.e. arrangements on or for real bicycles \(home-trainers A63B 23/0476 \)](#) }
- A63B 2069/161 . . . supports for the front of the bicycle
- A63B 2069/162 for front fork or handlebar
- A63B 2069/163 for the front wheel
- A63B 2069/164 . . . supports for the rear of the bicycle, e.g. for the rear forks
- A63B 2069/165 rear wheel hub supports
- A63B 2069/166 . . . supports for the central frame of the bicycle, e.g. for the crank axle housing, seat tube or horizontal tube
- A63B 2069/167 . . . on rollers without further support
- A63B 2069/168 . . . Force transfer through the rim of the wheel
- A63B 69/18 . . . for skiing
- A63B 69/182 . . . { [for cross-country-skiing \(A63B 23/0417 , A63B 69/0022 take precedence \)](#) }
- A63B 2069/185 . . . for ski-jumping
- A63B 69/187 . . . { [for water-skiing](#) }
- A63B 69/20 . . . Punching balls, { [e.g. for boxing; Other boxing training devices, e.g. bags \(A63B 69/34 takes precedence \)](#) }
- A63B 69/201 . . . { [Hanging heavy punching bags](#) }
- A63B 69/203 . . . { [Punching balls, i.e. mainly designed to be hit at resonant frequency](#) }
- A63B 69/205 { [hanging downwards](#) }
- A63B 69/206 { [mounted by using attachments at opposite points](#) }
- A63B 69/208 { [mounted on a resilient foot](#) }
- A63B 69/24 . . . mounted on, or suspended from, a movable support { [not used, see subgroup](#) }
- A63B 69/26 attached to the human body
- A63B 69/32 . . . with indicating devices
- A63B 69/325 { [for vertical blows on a horizontal surface](#) }
- A63B 69/34 . . . { [Dummies, e.g.](#) } boxing or { [American-](#) } football dummies

- A63B 69/345 .. { (American-) football, rugby, wrestling dummies, e.g. for tackling, blocking }
- A63B 69/36 . for golf
- A63B 2069/3602 .. Player`s game information devices (not used)
- A63B 2069/3605 ... Golf club selection aids informing player of his average or expected shot distance for each club
- A63B 69/3608 .. { Attachments on the body, e.g. for measuring, aligning, restraining ([A63B 69/0059](#) , [A63B 69/3673](#) take precedence) }
- A63B 69/3611 .. { not used, see 69/36 and subgroups }
- A63B 69/3614 ... { using electro-magnetic, magnetic or ultrasonic radiation emitted, reflected or interrupted by the golf club }
- A63B 69/3617 ... { Striking surfaces with impact indicating means, e.g. markers }
- A63B 2069/362 electrical or electronic
- A63B 69/3623 .. { for driving ([A63B 69/3608](#) , [A63B 69/3658](#) , [A63B 69/3661](#) , [A63B 69/3667](#) and [A63B 69/3691](#) take precedence) }
- A63B 2069/3626 ... Details (not used)
- A63B 2069/3629 Visual means not attached to the body for positioning the trainee`s head or for detecting head movement, e.g. by parallax
- A63B 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](#)) }
- A63B 69/3635 { with sound-emitting source }
- A63B 69/3638 { Normal golf clubs with directly attached weights }
- A63B 69/3641 ... { with guides for guiding the swing }

WARNING

Not complete, pending the reclassification; see also other subgroups of [A63B 69/00](#)

- A63B 69/3644 { Mechanical guide guiding the club head end during the complete swing, e.g. rails }
- A63B 69/3647 { with a flexible member fixed on the club and rotating around a fixed supporting point }
- A63B 69/365 { with arm or rod fixed on the club and rotating around a fixed supporting point }
- A63B 69/3652 ... { Inclined platforms for practising drives from slopes }
- A63B 69/3655 ... { Balls, ball substitutes, or attachments on balls therefor }
- A63B 69/3658 .. { Means associated with the ball for indicating or measuring, e.g. speed, direction }
- A63B 69/3661 .. { Mats for golf practice, e.g. mats having a simulated turf, a practice tee or a green area }
- A63B 2069/3664 ... with bristles, the length of which can be adjusted
- A63B 69/3667 .. { Golf stance aids, e.g. means for positioning a golfer`s feet }
- A63B 2069/367 ... Detection of balance between both feet, i.e. weight distribution
- A63B 69/3673 ... { Foot inclining aids; Foot wobbling devices }
- A63B 69/3676 .. { for putting ([A63B 69/3608](#) , [A63B 69/3661](#) , [A63B 69/3667](#) and [A63B 69/3697](#) take precedence) }
- A63B 2069/3679 ... Details (not used)

- A63B 2069/3682 Visual means not attached to the body for positioning the trainee's head or for detecting head movement, e.g. by parallax
- A63B 69/3685 . . . { Putters or attachments on putters e.g. for measuring, aligning ([A63B 69/3614](#) takes precedence) }
- A63B 69/3688 . . . { Balls, ball substitutes, or attachments on balls therefor }
- A63B 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](#)) }
- A63B 69/3694 . . . { for driving only }
- A63B 69/3697 . . . { with putting taking place on a green other than the target green }
- A63B 69/38 . . for tennis { ([A63B 61/006](#) , [A63B 69/0073](#) and [A63B 69/0097](#) take precedence) }
- A63B 69/385 . . { for practising the serve }
- A63B 69/40 . . Stationarily-arranged devices for projecting balls { or other bodies (ball-dispensing devices [A63B 47/002](#) ; golf cups with ball ejector means [A63B 57/0062](#) ; targets with means for returning balls by gravity or mechanically [A63B 63/00](#)) } ; (sling weapons [F41B 3/00](#) ; traps for clay-pigeon targets [F41J 9/18](#))
- A63B 2069/401 . . substantially vertically, e.g. for baseball
- A63B 2069/402 . . giving spin
- A63B 2069/403 . . . back or reverse spin
- A63B 2069/404 . . . side spin
- A63B 2069/405 . . . top spin
- A63B 69/406 . . { with rotating discs, wheels or pulleys gripping and propelling the balls or bodies by friction }
- A63B 69/407 . . { with spring-loaded propelling means }
- A63B 69/408 . . . { with rotating propelling arm }
- A63B 69/409 . . { with pneumatic ball- or body-propelling means }
- A63B 71/00 Games or sports accessories not covered in groups [A63B 1/00](#) to [A63B 69/00](#) (starting appliances [A63K 3/02](#))**
- A63B 71/0009 . . { for handicapped persons }
- A63B 2071/0018 . . for wheelchair users
- A63B 2071/0027 . . visually handicapped
- A63B 71/0036 . . { Accessories for stowing, putting away or transporting exercise apparatus or sports equipment (handling or treating balls [A63B 47/00](#) ; for golf clubs [A63B 55/00](#)) }
- A63B 71/0045 . . { specially adapted for games played with rackets or bats }
- A63B 71/0054 . . { Features for injury prevention on an apparatus, e.g. shock absorbers (mats or the like for absorbing shocks for jumping [A63B 6/00](#)) }
- A63B 2071/0063 . . Shock absorbers
- A63B 2071/0072 . . Limiting the applied force, torque, movement or speed
- A63B 2071/0081 . . Stopping the operation of the apparatus
- A63B 2071/009 . . Protective housings covering the working parts of the apparatus
- A63B 71/02 . . for large-room or outdoor sporting games

- A63B 71/021 .. { Stays or guy-ropes (for masts [E04H 12/20](#) , for tents [E04H 15/34](#)) }
- A63B 71/022 .. { Backstops, cages, enclosures or the like, e.g. for spectator protection, for arresting balls }
- A63B 71/023 .. { Supports, e.g. poles }
- A63B 2071/024 ... with screws or pins in the earth
- A63B 2071/025 ... on rollers or wheels
- A63B 2071/026 ... stabilised by weight
- A63B 2071/027 using player's own weight, e.g. on a platform
- A63B 71/028 .. { Floor sockets for removable poles (sockets for poles in general [E04H 12/22](#)) }

- A63B 71/04 . for small-room or indoor sporting games

- A63B 71/06 . Indicating or scoring devices for games or players, { or for other sports activities }
- A63B 2071/0602 .. Non-electronic means therefor
- A63B 71/0605 .. { Decision makers and devices using detection means facilitating arbitration }
- A63B 71/0608 ... { using mechanical, i.e. non-electrical means }
- A63B 2071/0611 ... Automatic tennis linesmen, i.e. in-out detectors
- A63B 2071/0613 ... Automatic net-fault detectors
- A63B 71/0616 .. { Means for conducting or scheduling competition, league, tournaments or rankings }
- A63B 71/0619 .. { Displays, user interfaces and indicating devices, specially adapted for sport equipment, e.g. display mounted on treadmills }
- A63B 71/0622 ... { Visual, audio or audio-visual systems for entertaining, instructing or motivating the user }
- A63B 2071/0625 Emitting sound, noise or music
- A63B 2071/0627 when used improperly, e.g. by giving a warning
- A63B 2071/063 Spoken or verbal instructions
- A63B 2071/0633 without electronic means
- A63B 2071/0636 3D visualisation
- A63B 2071/0638 Displaying moving images of recorded environment, e.g. virtual environment
- A63B 2071/0641 with a marker advancing in function of the exercise
- A63B 2071/0644 with display speed of moving landscape controlled by the user's performance
- A63B 2071/0647 ... Visualisation of executed movements
- A63B 2071/065 ... Visualisation of specific exercise parameters
- A63B 2071/0652 Visualisation or indication relating to symmetrical exercise, e.g. right-left performance related to spinal column
- A63B 2071/0655 ... Tactile feedback
- A63B 2071/0658 ... Position or arrangement of display
- A63B 2071/0661 arranged on the user
- A63B 2071/0663 worn on the wrist, e.g. wrist bands
- A63B 2071/0666 worn on the head or face, e.g. combined with goggles or glasses
- A63B 71/0669 ... { Score-keepers or score display devices }
- A63B 71/0672 { using non-electronic means }

- A63B 2071/0675 . . . Input for modifying training controls during workout
- A63B 2071/0677 . . . Input by image recognition, e.g. video signals
- A63B 2071/068 . . . Input by voice recognition
- A63B 2071/0683 . . . Input by handheld remote control
- A63B 71/0686 . . { Timers, rhythm indicators or pacing apparatus using electric or electronic means }
- A63B 2071/0688 . . . using non-electronic means, e.g. mechanical, visual, acoustic or tactile means
- A63B 2071/0691 . . Maps, e.g. yardage maps or electronic maps
- A63B 2071/0694 . . Visual indication, e.g. Indicia
- A63B 71/0697 . . { Reservation devices }

- A63B 71/08 . . Body-protectors for players or sportsmen, { i.e. body-protecting accessories affording protection of body parts against blows or collisions } (protective clothing or garments for sporting purposes [A41D 13/00](#))
- A63B 71/081 . . { fluid-filled, e.g. air-filled }
- A63B 2071/083 . . . using bubble wrap
- A63B 71/085 . . { Mouth or teeth protectors ([A63B 71/081](#) takes precedence; protective face masks [A41D 13/00](#)) }
- A63B 2071/086 . . . Mouth inserted protectors with breathing holes
- A63B 2071/088 . . . Mouth inserted protectors with tether or strap
- A63B 71/10 . . for the head ({ [A63B 71/081](#) takes precedence } ; in the form of caps or hats [A42B 1/08](#) ; helmets [A42B 3/00](#))
- A63B 2071/105 . . . Fencing mask
- A63B 71/12 . . for the body, { e.g. shoulders }, or the legs { ([A63B 71/081](#) takes precedence) }
- A63B 2071/1208 . . . for the breast and the abdomen, e.g. breast plates
- A63B 71/1216 . . . { for the genital area }
- A63B 71/1225 . . . { for the legs, e.g. thighs, knees, ankles, feet (bandages, e.g. orthosis-like supports or braces [A61F 5/0102](#) ; for strengthening joints [A61F 13/06](#)) }
- A63B 2071/1233 for the hip
- A63B 2071/1241 for the thigh
- A63B 2071/125 for the knee
- A63B 2071/1258 for the shin, e.g. shin guards
- A63B 2071/1266 for the calf
- A63B 2071/1275 for the ankle
- A63B 2071/1283 for the foot
- A63B 71/1291 . . . { for the neck (as a part of a helmet [A42B](#)) }
- A63B 71/14 . . for the hands e.g. baseball, boxing or golfing gloves (archer`s finger tabs [F41B 5/16](#))
- A63B 71/141 . . . { in the form of gloves (gloves in general [A41D 19/00](#)) }
- A63B 71/143 { Baseball or hockey gloves }
- A63B 71/145 { Boxing gloves }
- A63B 71/146 { Golf gloves }

WARNING

not complete, see [A63B 71/148](#)

A63B 71/148 { Gloves for bowling and other ball games }

A63B 2207/00 Exercising or sporting devices provided with means enabling use in the dark

A63B 2207/02 . Powered illuminating means

A63B 2208/00 Characteristics or parameters related to the user or player (not used) (measuring physical characteristics of the user [A63B 2230/00](#))

A63B 2208/02 . posture

A63B 2208/0204 . . Standing on the feet

A63B 2208/0209 . . . on a single foot

A63B 2208/0214 . . Kneeling

A63B 2208/0219 . . . on hands and knees

A63B 2208/0223 . . Squatting

A63B 2208/0228 . . Sitting on the buttocks

A63B 2208/0233 . . . in 90/90 position, like on a chair

A63B 2208/0238 . . . with stretched legs, like on a bed

A63B 2208/0242 . . Lying down

A63B 2208/0247 . . . with legs in a kneeled 90/90 position

A63B 2208/0252 . . . supine

A63B 2208/0257 . . . prone

A63B 2208/0261 using trunk supports resisting forward motion of user

A63B 2208/0266 . . . on the side

A63B 2208/0271 . . Standing on the shoulders or the neck

A63B 2208/0276 . . Standing on the head

A63B 2208/028 . . Standing on the hands

A63B 2208/0285 . . Hanging

A63B 2208/029 . . . upright

A63B 2208/0295 . . on hands and feet (for push-ups [A63B 23/1236](#))

A63B 2208/03 . the user being in water

A63B 2208/05 . the user being at least partly surrounded by a pressure different from the atmospheric pressure (not used)

A63B 2208/053 . . higher pressure

A63B 2208/056 . . lower pressure

A63B 2208/12 . specially adapted for children

A63B 2208/14 . specially adapted for animals

A63B 2209/00**Characteristics of used materials**

- A63B 2209/02 . with reinforcing fibres, e.g. carbon, polyamide fibres
- A63B 2209/023 . . Long, oriented fibres, e.g. wound filaments, woven fabrics, mats
- A63B 2209/026 . . Ratio fibres-total material
- A63B 2209/08 . magnetic
- A63B 2209/10 . with adhesive type surfaces, i.e. hook and loop-type fastener
- A63B 2209/14 . with form or shape memory materials

A63B 2210/00**Space saving**

- A63B 2210/02 . incorporated in chairs
- A63B 2210/04 . incorporated in beds, sofas
- A63B 2210/06 . incorporated in cabinets
- A63B 2210/10 . specially constructed to fit in the corner of a room
- A63B 2210/50 . Size reducing arrangements for stowing or transport
- A63B 2210/52 . . Frame members linked by elastic means when disassembled
- A63B 2210/54 . . Foldable elastic frame members automatically resuming their expanded state when released
- A63B 2210/56 . . electrically folded and erected
- A63B 2210/58 . . slideably retracted in a housing when not in use

A63B 2213/00**Exercising combined with therapy**

- A63B 2213/001 . with radiation therapy
- A63B 2213/002 . . Infra-red
- A63B 2213/003 . . Ultra-violet
- A63B 2213/004 . with electrotherapy
- A63B 2213/005 . with respiratory gas delivering means, e.g. O₂
- A63B 2213/006 . . under hypoxia conditions, i.e. oxygen supply subnormal
- A63B 2213/007 . combined with magnetotherapy
- A63B 2213/008 . combined with ultrasound therapy

A63B 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

- A63B 2220/05 . Image processing for measuring physical parameters
- A63B 2220/10 . Positions
- A63B 2220/12 . . Absolute positions, e.g. by using GPS
- A63B 2220/13 . . Relative positions
- A63B 2220/14 . . Geo-tagging, e.g. for correlating route or track location data with specific information related to that specific location
- A63B 2220/16 . . Angular positions
- A63B 2220/17 . Counting, e.g. counting periodical movements, revolutions or cycles, or including further data processing to determine distances or speed
- A63B 2220/18 . Inclination, slope or curvature
- A63B 2220/20 . Distances or displacements
- A63B 2220/22 . . Stride length
- A63B 2220/24 . . Angular displacement
- A63B 2220/30 . Speed
- A63B 2220/31 . . Relative speed
- A63B 2220/34 . . Angular speed
- A63B 2220/35 . . . Spin
- A63B 2220/36 . . Speed measurement by electric or magnetic parameters
- A63B 2220/40 . Acceleration
- A63B 2220/44 . . Angular acceleration
- A63B 2220/50 . Force related parameters
- A63B 2220/51 . . Force
- A63B 2220/52 . . . Weight, e.g. weight distribution
- A63B 2220/53 . . . Force of an impact, e.g. blow or punch
- A63B 2220/54 . . Torque
- A63B 2220/56 . . Pressure
- A63B 2220/58 . . Measurement of force related parameters by electric or magnetic means
- A63B 2220/62 . Time or time measurement used for time reference, time stamp, master time or clock signal
- A63B 2220/64 . Frequency, e.g. of vibration oscillation
- A63B 2220/70 . Measuring or simulating ambient conditions, e.g. weather, terrain or surface conditions

- A63B 2220/72 . . Temperature
- A63B 2220/73 . . Altitude
- A63B 2220/74 . . Atmospheric pressure
- A63B 2220/75 . . Humidity
- A63B 2220/76 . . Wind conditions
- A63B 2220/78 . . Surface covering conditions, e.g. of a road surface

- A63B 2220/80 . Special sensors, transducers or devices therefor
- A63B 2220/801 . . Contact switches
- A63B 2220/802 . . Ultra-sound sensors
- A63B 2220/803 . . Motion sensors
- A63B 2220/805 . . Optical or opto-electronic sensors
- A63B 2220/806 . . Video cameras
- A63B 2220/807 . . Photo cameras
- A63B 2220/808 . . Microphones
- A63B 2220/83 . . characterised by the position of the sensor
- A63B 2220/833 . . . Sensors arranged on the exercise apparatus or sports implement
- A63B 2220/836 . . . Sensors arranged on the body of the user
- A63B 2220/89 . . Field sensors, e.g. radar systems

- A63B 2225/00 Other characteristics of sports equipment**

- A63B 2225/01 . Special aerodynamic features, e.g. airfoil shapes, wings or air passages
- A63B 2225/02 . Testing, calibrating or measuring of equipment
- A63B 2225/05 . with suction cups
- A63B 2225/055 . . used for fixing
- A63B 2225/08 . with writing point
- A63B 2225/09 . Adjustable dimensions
- A63B 2225/093 . . Height
- A63B 2225/096 . . automatically adjusted according to anthropometric data of the user
- A63B 2225/10 . Multi-station exercising machines
- A63B 2225/102 . . having a common resisting device
- A63B 2225/105 . . each station having its own resisting device, e.g. for training multiple users simultaneously
- A63B 2225/107 . . . Resisting devices being of the same kind
- A63B 2225/12 . with mirrors
- A63B 2225/15 . with identification means that can be read by electronic means
- A63B 2225/20 . with means for remote communication, e.g. internet or the like

- A63B 2225/30 . Maintenance
- A63B 2225/305 .. Remote servicing
- A63B 2225/50 . Wireless data transmission, e.g. by radio transmitters or telemetry
- A63B 2225/52 .. modulated by measured values
- A63B 2225/54 .. Transponders, e.g. RFID
- A63B 2225/60 . Apparatus used in water
- A63B 2225/605 .. Floating
- A63B 2225/62 . Inflatable
- A63B 2225/64 . Heated
- A63B 2225/66 . Cooled
- A63B 2225/68 . Apparatus or equipment provided with article holders, e.g. keys, wallets, books
- A63B 2225/682 .. for beverages
- A63B 2225/685 .. for electronic devices, e.g. phone, PDA, GPS device, notebook
- A63B 2225/687 .. for others, e.g. keys, wallets, books
- A63B 2225/70 . Coin-operated
- A63B 2225/72 . Means preventing unauthorised use, e.g. by lowering a tennis net
- A63B 2230/00 Measuring physiological parameters of the user**
- A63B 2230/01 . User's weight
- A63B 2230/015 .. used as a control parameter for the apparatus
- A63B 2230/04 . heartbeat characteristics, e.g. E.G.C., blood pressure modulations
- A63B 2230/045 .. used as a control parameter for the apparatus
- A63B 2230/06 .. heartbeat rate only
- A63B 2230/062 ... used as a control parameter for the apparatus
- A63B 2230/065 ... within a certain range
- A63B 2230/067 used as a control parameter for the apparatus
- A63B 2230/08 . other bio-electrical signals
- A63B 2230/085 .. used as a control parameter for the apparatus
- A63B 2230/10 .. electroencephalographic signals
- A63B 2230/105 ... used as a control parameter for the apparatus
- A63B 2230/20 . blood composition characteristics
- A63B 2230/201 .. used as a control parameter for the apparatus
- A63B 2230/202 .. glucose
- A63B 2230/203 ... used as a control parameter for the apparatus

A63B 2230/205	..	P-CO ₂ , i.e. partial CO ₂ value
A63B 2230/206	...	used as a control parameter for the apparatus
A63B 2230/207	..	P-O ₂ , i.e. partial O ₂ value
A63B 2230/208	...	used as a control parameter for the apparatus
A63B 2230/30	.	blood pressure (A63B 2230/04 takes precedence)
A63B 2230/305	..	used as a control parameter for the apparatus (A63B 2230/045 takes precedence)
A63B 2230/40	.	respiratory characteristics
A63B 2230/405	..	used as a control parameter for the apparatus
A63B 2230/42	..	rate
A63B 2230/425	...	used as a control parameter for the apparatus
A63B 2230/43	..	Composition of exhaled air
A63B 2230/431	...	used as a control parameter for the apparatus
A63B 2230/433	...	partial CO ₂ value
A63B 2230/435	....	used as a control parameter for the apparatus
A63B 2230/436	...	partial O ₂ value
A63B 2230/438	....	used as a control parameter for the apparatus
A63B 2230/50	.	temperature
A63B 2230/505	..	used as a control parameter for the apparatus
A63B 2230/60	.	muscle strain, i.e. measured on the user
A63B 2230/605	..	used as a control parameter for the apparatus
A63B 2230/62	.	posture
A63B 2230/625	..	used as a control parameter for the apparatus
A63B 2230/65	.	skin conductivity
A63B 2230/655	..	used as a control parameter for the apparatus
A63B 2230/70	.	body fat
A63B 2230/705	..	used as a control parameter for the apparatus
A63B 2230/75	.	calorie expenditure
A63B 2230/755	..	used as a control parameter for the apparatus
A63B 2243/00		Specific ball sports
A63B 2243/0004	.	Baseball, softball, rounders
A63B 2243/0008	..	Softball
A63B 2243/0012	..	Rounders
A63B 2243/0016	.	Cricket
A63B 2243/002	.	Billiards

A63B 2243/0025	. Football (American football A63B 2243/007)
A63B 2243/0029	. Golf
A63B 2243/0033	. Handball
A63B 2243/0037	. Basketball
A63B 2243/0041	. Hockey
A63B 2243/0045	. . Ice hockey
A63B 2243/005	. Lacrosse
A63B 2243/0054	. Bowling, i.e. ten-pin bowling
A63B 2243/0058	. Bowls, crown green bowling
A63B 2243/0062	. Petanque
A63B 2243/0066	. Rugby ; American football
A63B 2243/007	. . American football
A63B 2243/0075	. Squash, racketball
A63B 2243/0079	. . Racketball
A63B 2243/0083	. Tennis
A63B 2243/0087	. . Badminton
A63B 2243/0091	. Table-tennis
A63B 2243/0095	. Volleyball
A63B 2244/00	Sports without balls (not used)
A63B 2244/03	. Skeet, clay pigeon shooting
A63B 2244/04	. Bow shooting
A63B 2244/08	. Jumping, vaulting
A63B 2244/081	. . High jumping
A63B 2244/082	. . Long jumping
A63B 2244/084	. . . Triple jump
A63B 2244/085	. . Pole vaulting
A63B 2244/087	. . without take off run
A63B 2244/088	. . hurdling
A63B 2244/09	. Weight-lifting
A63B 2244/10	. Combat sports (Rugby, American football A63B 2243/0066)

A63B 2244/102	. .	Boxing
A63B 2244/104	. .	Judo
A63B 2244/106	. .	Karate
A63B 2244/108	. .	Wrestling
A63B 2244/12	.	Acrobats
A63B 2244/14	.	Shot putting
A63B 2244/15	.	Discus throwing
A63B 2244/16	.	Spear or javelin throwing
A63B 2244/17	.	Hammer throwing
A63B 2244/18	.	Skating
A63B 2244/183	. .	Artistic or figure skating
A63B 2244/186	. .	Roller skating
A63B 2244/19	.	Skiing
A63B 2244/20	.	Swimming
A63B 2244/203	. .	Diving
A63B 2244/206	. . .	artistic
A63B 2244/22	.	Dancing
A63B 2244/225	. .	Pole dancing
A63B 2244/24	.	Horse riding
A63B 2244/26	.	Bob-sleigh