CPC COOPERATIVE PATENT CLASSIFICATION

A HUMAN NECESSITIES

HEALTH; AMUSEMENT

A63 SPORTS; GAMES; AMUSEMENTS

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

exercising, massage A61H)

WARNINGS

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

A63B 7/06	covered by	<u>A63G 1/00</u>
A63B 22/08	covered by	<u>A63B 22/0605</u>
A63B 22/10	covered by	A63B 22/0605, A63B 22/0002
A63B 22/12	covered by	A63B 22/0605, A63B 22/001
A63B 29/04	covered by	<u>A63B 29/00</u>
A63B 31/16	covered by	<u>A63B 31/14</u> - <u>A63B 31/18</u>
A63B 63/02	covered by	<u>A63B 63/00</u>
A63B 63/04	covered by	<u>A63B 63/00</u>
A63B 71/16	covered by	<u>A63B 71/14</u> - <u>A63B 71/148</u>
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2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

<u>Gymnastic exercising apparatus (training apparatus for special</u> sports A63B 69/00; apparatus for passive exercising, massage A61

sports A63B 69/00; apparatus for passive exercising, massage A61H) 1/00**Horizontal bars** 1/005 • {Safety devices for securing the rods} 1/04. Cleaning the rods 3/00 Parallel bars or similar apparatus 4/00 **Balance beams** 5/00 Apparatus for jumping (mats for jumping A63B 6/00; for racing or riding sports, e.g. hurdles A63K) 5/02 . High-jumping posts 5/04 . . Ropes {or similar devices} therefor 5/06 • Vaulting poles {; Take-off boxes therefor} • Spring-boards (of trampoline type A63B 5/11 {; in 5/08 the form of spring mats A63B 6/00}) 2005/085 • • {for launching, e.g. catapulting} . . for aquatic sports 5/10 . Trampolines 5/11 5/12 . Bolster vaulting apparatus, e.g. horses, bucks, tables 5/16 . Training devices for jumping; Devices for balloonjumping; Jumping aids {(A63B 25/02, A63B 25/10 take precedence)} 2005/163 . . {Free-fall jumping on elastic cords, e.g. Bungee jumping} 5/166 • {Devices for balloon-jumping} . Skipping-ropes {or similar devices rotating in a 5/20 vertical plane} • • {Powered skipping rope devices} 5/205 . Foot obstacles for skipping {, e.g. horizontally-5/22 rotating obstacles}

6/00	Mats or the like for absorbing shocks for jumping, gymnastics or the like		
6/02	• for landing, e.g. for pole vaulting		
6/025	• • {Sand landing pits, e.g. for long jumping}		
7/00	Freely-suspended gymnastic apparatus		
7/02	Swinging rings; Trapezes		
7/04	Climbing-ropes		
7/045	• • {Using endless ropes}		
7/08	Apparatus for rope-dancing		
7/085	• • {Balancing on a band tensioned between two anchor points, e.g. Slackline type}		
9/00	Climbing poles, frames, or stages {(climbing walls for mountaineering training <u>A63B 69/0048;</u> endless loop ladders <u>A63B 22/04</u>)}		
2009/002	• {Flat climbing nets}		
2009/004	• {Three-dimensional rope or cable networks}		
2009/006	• {Playground structures}		
2009/008	• {with water spraying means}		
15/00	Clubs for gymnastics or the like {, e.g. for swinging exercises}		
15/005	• {with a weight movable along the longitudinal axis of the club due to centrifugal forces}		
15/02	• with illuminating devices		
17/00	Exercising apparatus combining several parts such as ladders, rods, beams, slides		
17/02	• rigidly combined		
17/04	• separable		
19/00	Hoop exercising apparatus {(<u>A63B 21/0608</u> takes precedence)}		

19/02 19/04	 Freely-movable rolling hoops, e.g. gyrowheels <pre>{or spheres or cylinders, carrying the user inside (resisting devices overcoming gyroscopic forces of rotating bodies <u>A63B 21/22</u>; standing on it for equilibrium exercises <u>A63B 26/003</u>)}</pre> movably supported on a framework {or spheres or cylinders carrying the user inside (standing on it for equilibrium exercises <u>A63B 26/003</u>)} 		
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 <u>A63B 24/00</u>)		
	NOTE		
	 In this subclass, the following terms or expressions are used with the meaning indicated: "resistance" and "resistance force" are often used in the art as synonyms for "counterforce"; "interface with the user" covers the part of the apparatus, on which the user directly applies his force 		
21/0004	• {Exercising devices moving as a whole during exercise (bar bells or dumb bells <u>A63B 21/072;</u> on wheels <u>A63B 22/20</u>)}		
21/00043	 {Exercising devices consisting of a pair of user interfaces connected by flexible elements, e.g. two handles connected by elastic bands (skipping ropes <u>A63B 5/20</u>; resilient elements <u>A63B 21/02</u>)} 		
21/00047			
21/0005	• {specially adapted for head stands}		
21/00054	 (specially adapted for shoulder stands) (specially adapted for shoulder stands) 		
21/00058	 {Mechanical means for varying the resistance (<u>A63B 21/06</u> takes precedence)} 		
21/00061	• • {Replaceable resistance units of different strengths, e.g. for swapping}		
21/00065	resistance units}		
21/00069	 {Setting or adjusting the resistance level; Compensating for a preload prior to use, e.g. changing length of resistance or adjusting a valve} 		
21/00072	• • • {by changing the length of a lever}		
21/00076	exercise}		
21/00178	 {for active exercising, the apparatus being also usable for passive exercising} 		
21/00181	 {comprising additional means assisting the user to overcome part of the resisting force, i.e. assisted- active exercising} 		
21/00185	• {using resistance provided by the user, e.g. exercising one body part against a resistance provided by another body part (<u>A63B 21/068</u> takes precedence; isometric exercise <u>A63B 21/0023</u>)}		
21/00189	 {using resistance provided by plastic deformable materials, e.g. lead bars or kneadable masses (resilient force-resistors made of material having high internal friction <u>A63B 21/028</u>)} 		
21/00192	• {using resistance provided by magnetic means (<u>A63B 21/005</u> takes precedence)}		

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21/00196	 {using pulsed counterforce, e.g. vibrating resistance means (<u>A61H 1/005</u> takes precedence)}
21/002	• isometric or isokinetic, i.e. substantial force variation without substantial muscle motion {or wherein the speed of the motion is independent of
	the force applied by the user}
21/0023	• {for isometric exercising, i.e. substantial force variation without substantial muscle motion}
21/005	• using electromagnetic or electric force-resisters
21/0051	• • {using eddy currents induced in moved elements, e.g. by permanent magnets}
21/0052	• • {induced by electromagnets (<u>A63B 21/0056</u> takes precedence)}
21/0053	• • {using alternators or dynamos}
21/0054	• • • {for charging a battery}
21/0055	• • • {the produced electric power used as a source for other equipment, e.g. for TVs}
21/0056	• • {using electromagnetically-controlled friction, e.g. magnetic particle brakes}
21/0057	• • {using electromagnetic clutches}
21/0058	• • {using motors}
21/0059	• • • {using a frequency controlled AC motor}
21/008	• using hydraulic or pneumatic force-resisters
21/0083	• {of the piston-cylinder type (using pneumatic
	piston-cylinder type force resistors A63B 21/0087)}
21/0084	• • {by moving the surrounding water (A63B $31/00$,
	<u>A63B 35/00</u> take precedence)}
21/00845	• • {using electrorheological or magnetorheological fluids}
21/0085	• • {using pneumatic force-resisters}
21/0087	{of the piston-cylinder type (using hydraulic piston-cylinder type force resistors <u>A63B 21/0083</u>)}
21/0088	• • • {by moving the surrounding air}
21/0089	• • • {Suction cups}
21/012	• using frictional force-resisters
	{(electromagnetically-controlled brakes <u>A63B 21/0056</u>)}
21/0125	• {with surfaces rolling against each other without substantial slip}
21/015	• including rotating or oscillating elements
21/019	{rubbing against fixed elements}
21/018	• including a rope {or other flexible element} moving relative to the surface of elements
21/02	• using resilient force-resisters
21/021	• {whereby the resistance changes abruptly during the exercising movement, e.g. by using toggles}
21/022	• • { with springs acting at different parts of the stroke }
21/023	• • {Wound springs}
21/025	• • {Spiral springs with turns lying substantially in plane surfaces}
21/026	• {Bars; Tubes; Leaf springs (<u>A63B 21/023</u> takes precedence)}
21/027	 . {Apparatus forced to oscillate at its resonant frequency}
21/028	• • {made of material having high internal friction, e.g. rubber, steel wool, intended to be compressed (resistance provided by plastic deformable materials <u>A63B 21/00189</u>)}
21/04	• attached to static foundation {, e.g. a user}
21/0407	• • {Anchored at two end points, e.g. installed within an apparatus}

21/0414	•••• { with both ends stationary during the actual exercise, i.e. moving only at intermediate
21/0421	locations} {the ends moving relatively by a pivoting
21/0428	 arrangement } •••• { the ends moving relatively by linear reciprocation }
21/0435	• • • {One or both ends being anchored to a rotating element}
21/0442	 {Anchored at one end only, the other end being manipulated by the user}
21/045	• • having torsion {or bending or flexion} element
21/0455	 {having torsion element around its longitudinal axis}
21/05	. Linearly-compressed elements {(A63B 21/028
	takes precedence)}
21/055	extension element type
21/0552	• • {Elastic ropes or bands}
21/0555	• • • • {Details of the rope or band, e.g. shape or colour coding}
21/0557	• • • • {Details of attachments, e.g. clips or clamps}
21/06	User-manipulated weights
21/0601	• • {Special physical structures of used masses}
21/0602	• • • {Fluids, e.g. water}
21/0603	• • • {Fluid-like particles, e.g. gun shot or sand}
21/0604	• • • {Solid masses, e.g. concrete (<u>A63B 21/0603</u>
	takes precedence)}
21/0605	• • • {with boxes, baskets or the like for stacking loose weights therein}
21/0606	• • • {Buoyant volumes to be submerged}
21/0607	• • • {Plastic masses, e.g. elastomers; Masses
	provided with plastic coverings}
21/0608	• • {Eccentric weights put into orbital motion by nutating movement of the user}
21/0609	• {consisting of loosely interconnected elements for progressively changing weight, e.g. heavy chains}
21/0615	• • {pivoting about a fixed horizontal fulcrum}
21/0616	• • • {with an adjustable moment (<u>A63B 21/0617</u> takes precedence)}
21/0617	• • • {with a changing moment as a function of the pivot angle}
21/0618	• • {moving in a horizontal plane without substantial friction, i.e. using inertial forces}
21/062	 including guide for vertical {or non-vertical weights or} array of weights {to move against gravity forces}
21/0622	• • • {with adjustable inclination angle of the guiding means}
21/0624	• • • {by moving the guiding means}
21/0626	• • • {with substantially vertical guiding means}
21/0628	{for vertical array of weights}
21/063	{Weight selecting means}
21/0632	• • • • { the weights being lifted by rigid means }
21/065	• • worn on user's body
21/068	• • using user's body weight
21/072	• Dumb-bells, bar-bells or the like {, e.g. weight discs having an integral peripheral handle}
21/0722	• • {transformable, e.g. from dumb-bell to bar- bell}
21/0724	• • • {Bar-bells; Hand bars}
21/0726	• • • {Dumb bells, i.e. with a central bar to be held
	by a single hand, and with weights at the ends}

21/0728	• • • {with means for fixing weights on bars, i.e.
	fixing olympic discs or bumper plates on bar-
	bells or dumb-bells}
21/075	• • • with variable weights {, e.g. weight systems
	with weight selecting means for bar-bells or dumb-bells}
21/078	 Devices for bench press exercises {, e.g. supports,
21/078	guiding means}
21/0783	• • {Safety features for bar-bells, e.g. drop limiting
21/0/05	means}
21/08	• anchored at one end
21/15	• {Arrangements for force transmissions}
21/151	• {Using flexible elements for reciprocating
	movements, e.g. ropes or chains}
21/152	• • • {Bowden-type cables}
21/153	• • • {wound-up and unwound during exercise, e.g.
	from a reel}
21/154	• • • {using special pulley-assemblies}
21/155	{Cam-shaped pulleys or other non-uniform
21/154	pulleys, e.g. conical}
21/156	• • • { the position of the pulleys being variable,
21/157	e.g. for different exercises}. {Ratchet-wheel links; Overrunning clutches; One-
21/137	way clutches}
21/158	Hydraulic transmissions (hydraulic force
21,100	resistors <u>A63B 21/008</u>)}
21/159	• • {Using levers for transmitting forces}
21/16	Supports for anchoring force-resisters
21/1609	• • {for anchoring on a chair (chairs with exercising
	means <u>A47C 9/002</u>)}
21/1618	• • {on a door or a door frame}
21/1627	{for anchoring on or between the vertical posts
	of a door frame}
21/1636	• • • {for anchoring on the horizontal part of a door frame}
21/1645	• • {for anchoring on a door}
21/1654	 {for anchoring between a door and the floor}
21/1663	• • { for anchoring between a door and the door
	frame}
21/1672	• • {for anchoring on beds or mattresses}
21/1681	• • {for anchoring between horizontal surfaces, e.g.
	the floor and the ceiling}
21/169	• • {for anchoring on or against a wall}
21/22	• Resisting devices with rotary bodies
21/222	{(<u>A63B 21/0608</u> takes precedence)}
21/222	• {by overcoming gyroscopic forces, e.g. by turning the spin axis}
21/225	• {with flywheels}
21/223	 {changing the rotational direction alternately}
21/28	• Devices for two persons operating in opposition {or
	in cooperation}
21/285	• • {in cooperation}
21/40	• {Interfaces with the user related to strength training;
	Details thereof}
21/4001	• • {Arrangements for attaching the exercising
	apparatus to the user's body, e.g. belts, shoes or
	gloves specially adapted therefor (weights worn on the user's body <u>A63B 21/065</u> ; exoskeletons
	in general <u>B25J 9/0006</u> , for aiding patients or
	disabled persons to walk about <u>A61H 3/00</u>)}
21/4003	• • • {to the head; to the neck}
21/4005	• • • {to the shoulder}
21/4007	• • {to the chest region, e.g. to the back chest}

	• • {to the waist}
21/4011	• • • {to the lower limbs (means for physically
	limiting movements of body parts
	<u>A63B 69/0057</u>)}
21/4013	• • • {to the ankle}
21/4015	• • • • {to the foot}
21/4017	• • { to the upper limbs }
21/4019	\ldots {to the hand}
21/4021	• • • {to the wrist}
21/4023	• • {the user operating the resistance directly, without additional interface (A63B 21/072 takes
	precedence)}
21/4025	• • {Resistance devices worn on the user's body
21/ 1020	(A63B 21/065 takes precedence)}
21/4027	• • {Specific exercise interfaces (chairs or stools with
	exercising means A47C 9/002)}
21/4029	• • • {Benches specifically adapted for exercising
	(for bench press exercises <u>A63B 21/078</u>)}
21/4031	• • • • { with parts of the bench moving against a
	resistance during exercise }
21/4033	• • • {Handles, pedals, bars or platforms}
21/4034	{ for operation by feet }
21/4035	{for operation by hand}
21/4037	• • {Exercise mats for personal use, with or without hand-grips or foot-grips, e.g. for Yoga
	or supine floor exercises (mats for absorbing
	shocks <u>A63B 6/00</u>)}
21/4039	• • {contoured to fit to specific body parts, e.g.
	back, knee or neck support (arrangements for
	attaching exercising apparatus to the user's
	body A63B 21/4001; handles, pedals, bars or
	platforms <u>A63B 21/4033</u>)}
21/4041	• {characterised by the movements of the interface}
21/4043	• • Free movement, i.e. the only restriction
21/ 10 10	
21,1010	coming from the resistance (A63B 21/00043,
	coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)}
21/4045	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)} {Reciprocating movement along, in or on a
	coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)}
	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)} . {Reciprocating movement along, in or on a guide (weights moving along or in guiding
	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)) . {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)} . {Pivoting movement (weight pivoting
21/4045 21/4047	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)) . {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)} . {Pivoting movement (weight pivoting A63B 21/0615)}
21/4045	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)) . {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)} . {Pivoting movement (weight pivoting
21/4045 21/4047	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)) . {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)} . {Pivoting movement (weight pivoting A63B 21/0615)}
21/4045 21/4047 21/4049	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)} . {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)} . {Pivoting movement (weight pivoting A63B 21/0615)} . {Rotational movement} Exercising apparatus specially adapted for conditioning the cardio-vascular system, for
21/4045 21/4047 21/4049	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)) . {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)} . {Pivoting movement (weight pivoting A63B 21/0615)} . {Rotational movement} Exercising apparatus specially adapted for conditioning the cardio-vascular system, for training agility or co-ordination of movements
21/4045 21/4047 21/4049	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)) . {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)) . {Pivoting movement (weight pivoting A63B 21/0615)} . {Rotational movement} 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
21/4045 21/4047 21/4049	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)} {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)} {Pivoting movement (weight pivoting A63B 21/0615)} {Rotational movement} 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
21/4045 21/4047 21/4049	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)} . {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)} . {Pivoting movement (weight pivoting A63B 21/0615)} . {Rotational movement} 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
21/4045 21/4047 21/4049 22/00	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)} . {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)} . {Pivoting movement (weight pivoting A63B 21/0615)} . {Rotational movement} 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)
21/4045 21/4047 21/4049	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)} . {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)} . {Pivoting movement (weight pivoting A63B 21/0615)} . {Rotational movement} 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) . {involving an exercising of arms (for strengthening
21/4045 21/4047 21/4049 22/00	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)} . {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)} . {Pivoting movement (weight pivoting A63B 21/0615)} . {Rotational movement} 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) {involving an exercising of arms (for strengthening the upper limbs A63B 23/12)}
21/4045 21/4047 21/4049 22/00 22/0002	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)} . {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)} . {Pivoting movement (weight pivoting A63B 21/0615)} . {Rotational movement} 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) . {involving an exercising of arms (for strengthening the upper limbs A63B 23/12)} . {with particular movement of the arms provided by handles moving otherwise than pivoting
21/4045 21/4047 21/4049 22/00 22/0002	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)} . {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)} . {Pivoting movement (weight pivoting A63B 21/0615)} . {Rotational movement} 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 24/00) {involving an exercising of arms (for strengthening the upper limbs A63B 23/12)} . {with particular movement of the arms provided by handles moving otherwise than pivoting about a horizontal axis parallel to the body-
21/4045 21/4047 21/4049 22/00 22/0002 22/0005	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)} . {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)} . {Pivoting movement (weight pivoting A63B 21/0615)} . {Rotational movement} 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 24/00) {involving an exercising of arms (for strengthening the upper limbs A63B 23/12)} . {with particular movement of the arms provided by handles moving otherwise than pivoting about a horizontal axis parallel to the body- symmetrical-plane}
21/4045 21/4047 21/4049 22/00 22/0002	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)} . {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)} . {Pivoting movement (weight pivoting A63B 21/0615)} . {Rotational movement} 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) {involving an exercising of arms (for strengthening the upper limbs A63B 23/12)} . {with particular movement of the arms provided by handles moving otherwise than pivoting about a horizontal axis parallel to the body-symmetrical-plane} . {by alternatively exercising arms or legs, e.g.
21/4045 21/4047 21/4049 22/00 22/0002 22/0005	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)) . {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)) . {Pivoting movement (weight pivoting A63B 21/0615)} . {Rotational movement} 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) {involving an exercising of arms (for strengthening the upper limbs A63B 23/12)} . {with particular movement of the arms provided by handles moving otherwise than pivoting about a horizontal axis parallel to the body-symmetrical-plane} . {by alternatively exercising arms or legs, e.g. with a single set of support elements driven either
21/4045 21/4047 21/4049 22/00 22/0002 22/0005 22/0007	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)} . (Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)} . (Pivoting movement (weight pivoting A63B 21/0615)} . (Rotational movement) 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) (involving an exercising of arms (for strengthening the upper limbs A63B 23/12)} . {with particular movement of the arms provided by handles moving otherwise than pivoting about a horizontal axis parallel to the body-symmetrical-plane} . {by alternatively exercising arms or legs, e.g. with a single set of support elements driven either by the upper or the lower limbs}
21/4045 21/4047 21/4049 22/00 22/0002 22/0005	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)} . {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)} . {Pivoting movement (weight pivoting A63B 21/0615)} . {Rotational movement} 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) {involving an exercising of arms (for strengthening the upper limbs A63B 23/12)} . {with particular movement of the arms provided by handles moving otherwise than pivoting about a horizontal axis parallel to the body-symmetrical-plane} . {by alternatively exercising arms or legs, e.g. with a single set of support elements driven either by the upper or the lower limbs} . {by simultaneously exercising arms and legs, e.g.
21/4045 21/4047 21/4049 22/00 22/0002 22/0005 22/0007	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)} . {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)} . {Pivoting movement (weight pivoting A63B 21/0615)} . {Rotational movement} 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) {involving an exercising of arms (for strengthening the upper limbs A63B 23/12)} . {with particular movement of the arms provided by handles moving otherwise than pivoting about a horizontal axis parallel to the body-symmetrical-plane} . {by alternatively exercising arms or legs, e.g. with a single set of support elements driven either by the upper or the lower limbs} . {by simultaneously exercising arms and legs, e.g. diagonally in anti-phase (A63B 22/0076 takes
21/4045 21/4047 21/4049 22/00 22/0002 22/0005 22/0007	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)} . {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)} . {Pivoting movement (weight pivoting A63B 21/0615)} . {Rotational movement} 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) {involving an exercising of arms (for strengthening the upper limbs A63B 23/12)} . {with particular movement of the arms provided by handles moving otherwise than pivoting about a horizontal axis parallel to the body-symmetrical-plane} . {by alternatively exercising arms or legs, e.g. with a single set of support elements driven either by the upper or the lower limbs} . {by simultaneously exercising arms and legs, e.g.
21/4045 21/4047 21/4049 22/00 22/0002 22/0005 22/0007 22/001	 coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)} . {Reciprocating movement along, in or on a guide (weights moving along or in guiding means A63B 21/06; for cardio-training A63B 22/201)} . {Pivoting movement (weight pivoting A63B 21/0615)} . {Rotational movement} 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) {involving an exercising of arms (for strengthening the upper limbs A63B 23/12)} . {with particular movement of the arms provided by handles moving otherwise than pivoting about a horizontal axis parallel to the body-symmetrical-plane} . {by alternatively exercising arms or legs, e.g. with a single set of support elements driven either by the upper or the lower limbs} . {by simultaneously exercising arms and legs, e.g. diagonally in anti-phase (A63B 22/0076 takes precedence)}

22/0015	• {with an adjustable movement path of the support elements}
22/0017	• • {the adjustment being controlled by movement of the user}
2022/002	• • • {electronically, e.g. by using a program}
22/0023	• • {the inclination of the main axis of the movement path being adjustable, e.g. the inclination of an endless band}
22/0025	• {Particular aspects relating to the orientation of movement paths of the limbs relative to the body; Relative relationship between the movements of the limbs}
2022/0028	• • {the movement path being non-parallel to the body-symmetrical-plane, e.g. support elements moving at an angle to the body-symmetrical-plane}
2022/003	• • • {the movement path being perpendicular to the body-symmetrical-plane}
2022/0033	• • {Lower limbs performing together the same movement, e.g. on a single support element}
2022/0035	• • {Upper limbs performing together the same
2022/0028	movement, e.g. on a single support element}
2022/0038	• • {One foot moving independently from the other, i.e. there is no link between the movements of the feet}
2022/0041	• • {one hand moving independently from the other hand, i.e. there is no link between the movements of the hands}
2022/0043	• • {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}
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 <u>A63B 21/4001</u> ; using rollers, wheels, castors or gliding means to be moved over the floor or guide tracks <u>A63B 22/20</u>)}
22/0048	 {with cantilevered support elements pivoting about an axis (A63B 22/0076 takes precedence)}
2022/0051	the support elements being supported at a
2022,0001	substantial distance below their axis, e.g. the axis for the foot support elements are arranged at hip height}
2022/0053	• • {each support element being cantilevered by a parallelogram system}
22/0056	• {the pivoting movement being in a vertical plane, e.g. steppers with a horizontal axis (platforms for rocking motion about a horizontal axis <u>A63B 22/16</u>)}
22/0058	• • • {the vertical plane being the frontal body- plane}
22/0061	• • {the pivoting movement being in a horizontal plane, e.g. skating movement (platforms for reciprocating rotating motion about a vertical axis <u>A63B 22/14</u>)}
22/0064	• • {the pivoting movement being in a plane inclined with respect to the horizontal plane, e.g. a step and twist movement}
22/0066	 {the support elements movement being downward-inward, i.e. towards the body- symmetrical-plane}
22/0069	• • • {about an axis inclined with respect to the horizontal plane, e.g. steppers with an inclined axis}

2022/0071	• • • • {the axis being located behind the user, e.g.
2022/0051	for skate training}
2022/0074	• • • {the axis being located in front of the user,
22/0076	e.g. for steppers with twist movement}{Rowing machines for conditioning the cardio-
22/00/0	vascular system (seats moving during exercise
	<u>A63B 22/0087;</u> training appliances for rowing or
	sculling on boats A63B 69/06)}
2022/0079	• • {with a pulling cable}
2022/0082	• • {with pivoting handlebars}
2022/0084	• • {pivoting about a horizontal axis}
22/0087	• {with a seat or torso support moving during the exercise, e.g. reformers (A63B 22/0076 takes
	precedence)}
22/0089	• {a counterforce being provided to the support
	(force-resisting aspects A63B 21/00)}
2022/0092	• {for training agility or co-ordination of movements}
2022/0094	• {for active rehabilitation, e.g. slow motion devices}
2022/0097	• {for avoiding blood stagnations, e.g. Deep Vein
22/22	Thrombosis [DVT]}
22/02	• with movable endless bands {, e.g. treadmills (other training appliances for running on the spot
	A63B 69/0028)}
22/0207	• {having shock absorbing means}
22/0214	• • { between the belt supporting deck and the
	frame }
22/0221	• • { on the frame supporting the rollers }
22/0228	• • • {with variable resilience}
22/0235	• {driven by a motor}
22/0242 22/025	 {with speed variation} {electrically, e.g. D.C. motors with variable
22/025	speed control}
22/0257	• • • • {Mechanical systems therefor}
22/0264	•••• {hydraulically}
2022/0271	• • {omnidirectional}
2022/0278	• • {with reversible direction of the running surface}
22/0285	• • {Physical characteristics of the belt, e.g. material, surface, indicia}
22/0292	 • {separate for each leg, e.g. dual deck}
22/04	 with movable {multiple} steps {, i.e. more than one
	step per limb, e.g. steps mounted on endless loops,
	endless ladders (steppers with cantilevered support
	elements pivoting about an axis <u>A63B 22/0048</u>)}
22/06	 with {support elements performing a} rotating cycling movement, {i.e. a closed
	path movement}(support stands for bicycles
	A63B 69/16; unicycles B62K 1/00)
22/0605	• • {performing a circular movement, e.g.
2022/0611	ergometers}
2022/0611	• • {Particular details or arrangement of cranks}
2022/0617	• • • {with separate crank axis for each limb, e.g. being separately adjustable or non parallel}
2022/0623	• • • {Cranks of adjustable length}
2022/0629	• • • • {each pedal being supported by two or more
	cranks}
2022/0635	• • • {specially adapted for a particular use}
2022/0641	• • • • {enabling a lateral movement of the
	exercising apparatus, e.g. for simulating movement on a bicycle }
2022/0647	• • • { for cycling in a standing position, i.e.
	without a seat or support for the trunk}
2022/0652	• • • { for cycling in a recumbent position }
2022/0658	• • • { for cycling with a group of people, e.g.
	spinning classes }

2022/067	• • • {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}		
2022/0676	• • • {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}		
2022/0682	 { 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} 		
2022/0688	• • • {with cranks being substantially within the horizontal moving range of the support		
22/0694	 elements, e.g. by using planetary gearings} • {without integral seat, e.g. portable mini ergometers being placed in front of a chair, on a table or on a bed} 		
22/14	 Platforms for reciprocating rotating motion about a vertical axis {, e.g. axis through the middle of the platform} 		
22/16	 Platform} 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 <u>A63B 22/0056</u>; other exercising apparatus for improving balance <u>A63B 26/003</u>)} 		
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 <u>A63B 19/00</u>; {eccentric weights put into orbital motion by nutating movement of the user <u>A63B 21/0608</u>; pots rotating or rocking by moving the whole body A63G 23/00}) 		
2022/185	• • {specially adapted for using with a single foot or hand}		
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 		
22/201	• • { for moving a support element in reciprocating translation, i.e. for sliding back and forth on a guide track }		
22/203			
	• • • {in a horizontal plane}		
22/205	• • {in a substantially vertical plane, e.g. for exercising against gravity (exercising for developing or strengthening the muscles or joints of the body by working against a user's body weight <u>A63B 21/068</u> ; with adjustable inclination <u>A63B 22/0023</u>)}		
22/205 2022/206 22/208	• • {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 <u>A63B 21/068</u> ; with adjustable		
2022/206	 {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 <u>A63B 21/068</u>; with adjustable inclination <u>A63B 22/0023</u>)} {on a curved path} {On a track which is itself moving during 		

• • {performing an elliptic movement}

22/0664

2022/006	(for stratching avaraises)		
2023/006 23/02	• {for stretching exercises}		
23/02	 for the abdomen, the spinal column or the torso {muscles related to shoulders (e.g. chest muscles)} 		
23/0205	• • {Abdomen}		
23/0211	• • • {moving torso with immobilized lower limbs}		
23/0216	• • • {moving lower limbs with immobilized torso}		
23/0222	• • • {moving torso and lower limbs}		
23/0227	• • { moving torso or lower limbs laterally, i.e. substantially in the frontal plane}		
23/0233	 {Muscles of the back, e.g. by an extension of the body against a resistance, reverse crunch} 		
23/0238	• • • {Spinal column (for the neck $A63B 23/025$)}		
23/0244	• • {with signalling or indicating means, e.g. of		
	incorrect posture, for deep-breathing exercises}		
23/025	• for the head or the neck		
23/03	for face muscles		
23/032	• • • {for insertion in the mouth}		
23/035	• for limbs, i.e. upper or lower limbs, e.g.		
	simultaneously		
23/03508	• For a single arm or leg, (A63B 21/0726 takes		
	precedence)}		
23/03516	• {For both arms together or both legs together; Aspects related to the co-ordination between right and left side limbs of a user}		
23/03525	• • {Supports for both feet or both hands		
	performing simultaneously the same		
	movement, e.g. single pedal or single handle		
	(A63B 21/0724 takes precedence)}		
23/03533	• • • {With separate means driven by each limb, i.e.		
	performing different movements}		
23/03541	• • • {Moving independently from each other		
	(A63B 22/00 takes precedence)}		
23/0355	• • {A single apparatus used for either upper or lower limbs, i.e. with a set of support elements driven either by the upper or the lower limb or limbs}		
23/03558	 . {Compound apparatus having multiple stations allowing an user to exercise different limbs} 		
23/03566	• • • { the multiple stations having a common		
23/03500	resistance device}		
23/03575	• {Apparatus used for exercising upper and lower		
	limbs simultaneously}		
23/03583	• • • {Upper and lower limbs acting simultaneously on the same operating rigid member}		
23/03591	• • {Upper and lower limb moving in phase, i.e.		
23/03391	right foot moving in the same direction as the right hand }		
23/04	• for lower limbs {(training appliances for special sports <u>A63B 69/00;</u> for the purpose of producing		
	mechanical power F03G 5/00)		
23/0405	• • • {involving a bending of the knee and hip joints simultaneously (<u>A63B 23/0476</u> takes		
	precedence)}		
2023/0411	• • • {Squatting exercises}		
23/0417	• • • {with guided foot supports moving		
25/011/	parallel to the body-symmetrical-plane by		
	translation }		
23/0423	• • • {with guided foot supports moving parallel		
	to the body-symmetrical-plane, one end		
	executing a complete circular movement,		
	the other end translating almost linearly, e.g.		
	giving an elliptical movement to the foot}		
23/0429	• • • {with guided foot supports moving parallel		
	to the body-symmetrical-plane by being		
	cantilevered about a horizontal axis}		

r limbs }		exercises <u>A63B 21/078</u> ; for teaching music
ole stations		<u>G09B 15/06</u>)}
t limbs} mmon	23/1209	 . {Involving a bending of elbow and shoulder joints simultaneously}
and lower	23/1218	• • • {Chinning, pull-up, i.e. concentric movement}
ltaneously	23/1227	• • • • {Dips, i.e. push-ups in a vertical position, i.e. eccentric movement, e.g. between parallel
} hase, i.e. ion as the	23/1236	 bars } •••• {Push-ups in horizontal position, i.e. eccentric movement}
or special	23/1245	 . {Primarily by articulating the shoulder joint (<u>A63B 23/129</u> takes precedence)}
producing	23/1254	• • • {Rotation about an axis parallel to the longitudinal axis of the body, e.g. butterfly-
d hip		type exercises}
<u>6</u> takes	23/1263	• • • • {Rotation about an axis passing through both shoulders, e.g. cross-country skiing-type arm movements}
g plane by g parallel	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}
e end	23/1281	• • { primarily by articulating the elbow joint }
/ement,	23/1201	• • {for arm wrestling}
nearly, e.g.	23/14	• • • for wrist joints
he foot} g parallel	23/16	 for hands or fingers {(for teaching typing <u>G09B 13/00</u>)}
being	23/18	• for improving respiratory function
is}	23/185	• • {Rhythm indicators}
		6

2023/0441 {cantilevered about two horizontal axes,

2023/0447 {the axis being in the body-symmetricalplane }

2023/0452 {the foot support being substantially below said axes}

WARNING

take precedence)}

precedence)}

. . for ankle joints

. . . for feet or toes

• • {by spreading the legs}

symmetrical-plane}

23/0458

23/0464

23/047

23/0476

23/0482

23/0488

23/0494

23/08

23/085

23/10

23/12

. . .

.

. . .

e.g. parallelogram systems}

. . . {Step exercisers without moving parts (with

movable endless bands A63B 22/02) {Walking and pulling or pushing a load (for

. . . {by rotating cycling movement (arrangements on or for real bicycles A63B 69/16)

{primarily by articulating the hip joints

{primarily by articulating the knee joints

{by rotational movement of the joint in a plane substantially parallel to the body-

(A63B 23/0405, A63B 23/0476 take

. . for upper limbs {or related muscles, e.g. chest, upper back or shoulder muscles (bench press

exercising the player ability for rugby or American football <u>A63B 69/34</u>)}

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

(A63B 23/0211, A63B 23/0405, A63B 23/0476

movable steps A63B 22/04) • • • • {Walk exercisers without moving parts (with

23/20	 for vaginal muscles {or other sphincter-type muscles}
24/00	Electric or electronic controls for exercising apparatus of preceding groups; {Controlling or monitoring of eventing groups; training
	monitoring of exercises, sportive games, training or athletic performances}
24/0003	• {Analysing the course of a movement or motion
24/0003	 Analysing the course of a movement of motion sequences during an exercise or trainings sequence, e.g. swing for golf or tennis}
24/0006	• • {Computerised comparison for qualitative assessment of motion sequences or the course of a movement}
2024/0009	• • • {Computerised real time comparison with
	previous movements or motion sequences of the user}
2024/0012	• • • {Comparing movements or motion sequences with a registered reference}
2024/0015	• • • • {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}
2024/0018	• • • {using non electronic means}
24/0021	• {Tracking a path or terminating locations}
2024/0025	• {Tracking the path or location of one or more
	users, e.g. players of a game}
2024/0028	• • {Tracking the path of an object, e.g. a ball inside a soccer pitch}
2024/0031	• • • {at the starting point}
2024/0034	• • • {during flight}
2024/0037	• • {on a target surface or at impact on the ground}
2024/004	• • • {Multiple detectors or sensors each defining a different zone}
2024/0043	••• {Systems for locating the point of impact on a specific surface}
2024/0046	• • • {Mechanical means for locating the point of impact or entry}
2024/005	• • • {Keeping track of the point of impact or entry}
2024/0053	• • {for locating an object, e.g. a lost ball}
2024/0056	• • {for statistical or strategic analysis}
24/0059	• {Exercising apparatus with reward systems}
24/0062	• {Monitoring athletic performances, e.g. for
	determining the work of a user on an exercise
	apparatus, the completed jogging or cycling distance}
2024/0065	• • {Evaluating the fitness, e.g. fitness level or fitness index}
2024/0068	• • {Comparison to target or threshold, previous performance or not real time comparison to other individuals}
2024/0071	• • {Distinction between different activities,
202 00071	movements, or kind of sports performed}
24/0075	• {Means for generating exercise programs or
	schemes, e.g. computerized virtual trainer, e.g. using expert databases}
2024/0078	Exercise efforts programmed as a function of
	time}
2024/0081	• {Coaching or training aspects related to a group of users}
24/0084	• {Exercising apparatus with means for competitions, e.g. virtual races}

	distance or speed}
2024/0096	• • {using performance related parameters for
	controlling electronic or video games or avatars}
25/00	
25/00	Stilts or the like
25/02	• Elastic stilts {(devices for balloon jumping A63B 5/166)}
25/04	• with wheels
25/06	. Shoes formed with stilts to elongate the step
25/08	• Hopping-sticks, e.g. pogo sticks {; Hopping
	apparatus with a single resilient support (devices for
	balloon jumping <u>A63B 5/166</u>)}
25/10	• Elastic bouncing shoes fastened to the foot
26/00	Exercising apparatus not covered by groups A63B 1/00 - A63B 25/00
26/003	• {for improving balance or equilibrium (balance
20/005	beams <u>A63B 4/00;</u> apparatus for rope dancing
	<u>A63B 7/08;</u> balancing drums, balancing boards or
	the like $\underline{A63B} \underline{22/16}$ }
2026/006	• {with feet supports below their pivotal point}
Climbing; Mo	ountaineering
27/00	Apparatus for climbing poles, trees, or the like
	({ropes <u>A63B 29/02;</u> } safety belts for climbers
	<u>A62B 35/00</u>)
27/02	 Climbing devices for round poles {or trees}
	attachable to the feet
27/04	• Climbing devices for profile poles attachable to the
	feet
29/00	Apparatus for mountaineering (helmets A42B 3/00;
	non-skid devices or attachments for footwear,
	e.g. crampons, A43C 15/00; breathing masks or
	helmets for use at high altitudes A62B 18/00; picks
	<u>B25D 7/00</u>)
29/02	• Mountain guy-ropes or accessories, e.g. avalanche
	ropes; Means for indicating the location of
	accidentally buried, e.g. snow-buried, persons
	<u>NOTE</u>
	Contrary to the wording of group A63B 29/02,
	devices for lowering persons are classified in
	<u>A62B 1/06</u>
20/021	(Magna for indicating the location of assidentally
29/021	• {Means for indicating the location of accidentally buried, e.g. snow-buried, persons}
2029/022	• • {with means for automatically activating signal
2027/022	means in case of an avalanche}
29/024	• • {Climbing chocks}
20/025	
29/025	• • {Ice screws}
29/023	. {Ice screws}. {Pitons}
29/027	• • {Pitons}
29/027 29/028	. {Pitons}. {Ropes specially adapted for mountaineering}

• {Electric or electronic controls for exercising apparatus of groups <u>A63B 21/00</u> - <u>A63B 23/00</u>, e.g.

controlled in synchronism with visualising

controlled by performance parameters, e.g.

controlling load }2024/009 . {the load of the exercise apparatus being

systems, e.g. hill slope }2024/0093 . {the load of the exercise apparatus being

24/0087

Swimming

Swimming

Swimming	
31/00	Swimming aids (teaching swimming
	<u>A63B 69/10</u> - <u>A63B 69/14;</u> life-saving in water {, e.g.
	life-buoys, life-belts, } B63C 9/00)
31/02	Swimming gloves
31/04	• • with arrangements for enlarging the propulsive surface
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)
31/10	• held by, or attachable to, the hands or feet
31/11	• • • attachable only to the feet
2031/112	• • • { with means facilitating walking, e.g. rectractable, detachable or pivotable blades }
2031/115	•••• { with blade at an angle to the plane of the foot when in use, e.g. to reduce plantar flexion }
2031/117	••••• { with blade lying substantially in the body-symmetrical plane, e.g. for breast stroke }
31/12	• • held by, or attachable to, the arms or legs
31/14	• • with valve-flaps
31/18	• Swimming appliances with propulsive effect for hands and feet simultaneously
33/00	Swimming equipment attachable to the head, e.g. swim caps or goggles (diving masks <u>B63C 11/12</u> ; breathing aids, e.g. snorkels, <u>B63C 11/18</u>)
33/002	• {Swimming goggles}
33/004	 {comprising two separate lenses joined by a flexible bridge}
33/006	• { with means allowing adjustment of the bridge }
33/008	• • • {with stepless adjustment}
35/00	Swimming framework with driving mechanisms operated by the swimmer or by a motor (other vessels or like floating structures for pleasure or sport <u>B63B 32/00, B63B 34/00;</u> divers' sleds or like craft <u>B63C 11/46</u>)
	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 <u>B63H16/00</u>
35/02	• shaped like a fish tail
35/04	• with paddle wheels
35/06	• with twin-bladed paddles or buoyant members
35/08	 with propeller propulsion
35/10	• • operated by the swimmer
35/12	• • operated by a motor
35/125	• • {the motor being driven by compressed air carried by the swimmer}
Balls	
37/00	Solid holls: (Digid hollow holls:) Mowhles (horses
37/00	Solid balls; {Rigid hollow balls; } Marbles (heavy throwing balls <u>A63B 65/06</u>)

37/0001		{Balls with finger holes, e.g. for bowling}
57/0001	•	(Dans with Higer libres, e.g. for bowning)

37/0002	• • {Arrangements for adjusting, improving or
	measuring the grip, i.e. location, size, orientation
	or the like of finger holes}
37/0003	• {Golf balls}
37/0004	• • {Surface depressions or protrusions}
37/0005	• • • {Protrusions}
37/0006	• • {Arrangement or layout of dimples}
37/00065	• • • {located around the pole or the equator}
37/0007	• • • {Non-circular dimples}
37/0008	• • • • {Elliptical}
37/0009	• • • • {Polygonal}
37/001	• • • • {Annular}
37/0011	• • • • {Grooves or lines}
37/0012	• • {Dimple profile, i.e. cross-sectional view}
37/0013	• • • • {The dimple being formed in both the cover
	and the underlying layer}
37/0015	• • • • {with sub-dimples formed within main
	dimples}
37/0016	• • • {Specified individual dimple volume}
37/0017	• • • {Specified total dimple volume}
37/0018	• • • {Specified number of dimples}
37/0019	• • {Specified dimple depth}
37/002	• • • {Specified dimple diameter}
37/0021	• • • {Occupation ratio, i.e. percentage surface
	occupied by dimples }
37/00215	• • • {Volume ratio}
37/0022	• • {Coatings, e.g. paint films; Markings}
37/00221	• • • {characterised by the material}
37/00222	• • • {Physical properties, e.g. hardness}
37/00223	{Colour tone}
37/0023	• • {Covers}
37/0024	• • • {Materials other than ionomers or
	polyurethane}
37/0025	• • • • {Gutta-percha}
37/0026	• • • • {Balata}
37/0027	· · · · {Polyurea}
37/0029	• • {Physical properties}
37/003	{Coefficient of restitution}
37/0031	{Hardness}
37/0032	•••• {Hardness gradient}
37/0033	{Thickness}
21/11/27	
37/0034	• • • • {Deflection or compression}
37/0035	 {Deflection or compression} {Density; Specific gravity}
37/0035 37/0036	 {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]}
37/0035 37/0036 37/0037	 {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]} {Flexural modulus; Bending stiffness}
37/0035 37/0036 37/0037 37/00373	 {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]} {Flexural modulus; Bending stiffness} {Colour tone}
37/0035 37/0036 37/0037 37/00373 37/00376	 {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]} {Flexural modulus; Bending stiffness} . {Colour tone} {Transparency or semitransparency}
37/0035 37/0036 37/0037 37/00373	 {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]} {Flexural modulus; Bending stiffness} {Colour tone} {Transparency or semitransparency} . {Intermediate layers, e.g. inner cover, outer core,
37/0035 37/0036 37/0037 37/00373 37/00376 37/0038	 {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]} {Flexural modulus; Bending stiffness} . {Colour tone} {Transparency or semitransparency} . {Intermediate layers, e.g. inner cover, outer core, mantle}
37/0035 37/0036 37/0037 37/00373 37/00376 37/0038 37/0039	 {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]} {Flexural modulus; Bending stiffness} . {Colour tone} {Transparency or semitransparency} . {Intermediate layers, e.g. inner cover, outer core, mantle} {characterised by the material}
37/0035 37/0036 37/0037 37/00373 37/00376 37/0038 37/0039 37/004	 {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]} {Flexural modulus; Bending stiffness} {Colour tone} {Transparency or semitransparency} . {Intermediate layers, e.g. inner cover, outer core, mantle} {characterised by the material} {Physical properties}
37/0035 37/0036 37/0037 37/00373 37/00376 37/0038 37/0039 37/004 37/004	 {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]} {Flexural modulus; Bending stiffness} . {Colour tone} {Transparency or semitransparency} . {Intermediate layers, e.g. inner cover, outer core, mantle} {characterised by the material} . {Physical properties} {Coefficient of restitution}
37/0035 37/0036 37/0037 37/00373 37/00376 37/0038 37/0038 37/004 37/0041 37/0043	 {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]} {Flexural modulus; Bending stiffness} . {Colour tone} {Transparency or semitransparency} . {Intermediate layers, e.g. inner cover, outer core, mantle} . {characterised by the material} . {Physical properties} {Coefficient of restitution} {Hardness}
37/0035 37/0036 37/0037 37/00373 37/00376 37/0038 37/0038 37/0041 37/0043 37/0043 37/0044	 {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]} {Flexural modulus; Bending stiffness} {Colour tone} {Transparency or semitransparency} . {Intermediate layers, e.g. inner cover, outer core, mantle} {characterised by the material} {Coefficient of restitution} {Hardness} {Hardness gradient}
37/0035 37/0036 37/0037 37/00373 37/00376 37/0038 37/0038 37/0041 37/0043 37/0044 37/0044 37/0045	 {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]} {Flexural modulus; Bending stiffness} {Colour tone} {Transparency or semitransparency} . {Intermediate layers, e.g. inner cover, outer core, mantle} {characterised by the material} . {Coefficient of restitution} {Hardness} {Thickness}
37/0035 37/0036 37/0037 37/00373 37/00376 37/0038 37/0038 37/004 37/0041 37/0043 37/0045 37/0045 37/0046	 {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]} {Flexural modulus; Bending stiffness} {Colour tone} {Transparency or semitransparency} . {Intermediate layers, e.g. inner cover, outer core, mantle} {characterised by the material} {Coefficient of restitution} {Hardness} {Thickness} {Deflection or compression}
37/0035 37/0036 37/0037 37/00373 37/00376 37/0038 37/0039 37/004 37/0041 37/0041 37/0043 37/0045 37/0046 37/0047	 {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]} {Flexural modulus; Bending stiffness} {Colour tone} {Transparency or semitransparency} . {Intermediate layers, e.g. inner cover, outer core, mantle} {characterised by the material} {Coefficient of restitution} {Hardness} {Thickness} {Deflection or compression} {Density; Specific gravity}
37/0035 37/0036 37/0037 37/00373 37/00376 37/0038 37/0038 37/004 37/0041 37/0043 37/0043 37/0044 37/0045 37/0046 37/0047 37/0048	 {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]} {Flexural modulus; Bending stiffness} {Colour tone} {Transparency or semitransparency} . {Intermediate layers, e.g. inner cover, outer core, mantle} {characterised by the material} . {Coefficient of restitution} {Hardness} {Thickness} {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]}
37/0035 37/0036 37/0037 37/00373 37/00376 37/0038 37/004 37/0041 37/0043 37/0044 37/0045 37/0045 37/0046 37/0047 37/0048 37/0049	 {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]} {Flexural modulus; Bending stiffness} {Colour tone} {Transparency or semitransparency} . {Intermediate layers, e.g. inner cover, outer core, mantle} {characterised by the material} . {Coefficient of restitution} {Hardness} {Thickness} {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]} {Flexural modulus; Bending stiffness}
37/0035 37/0036 37/0037 37/00373 37/00376 37/0038 37/0049 37/0041 37/0043 37/0044 37/0045 37/0045 37/0045 37/0048 37/0049 37/0049 37/00495	 {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]} {Flexural modulus; Bending stiffness} {Colour tone} {Transparency or semitransparency} . {Intermediate layers, e.g. inner cover, outer core, mantle} {characterised by the material} . {Coefficient of restitution} {Hardness} {Thickness} {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]} {Flexural modulus; Bending stiffness} {Colour tone}
37/0035 37/0036 37/0037 37/00373 37/00376 37/0038 37/004 37/0041 37/0043 37/0044 37/0045 37/0045 37/0046 37/0047 37/0048 37/0049	 {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]} {Flexural modulus; Bending stiffness} {Colour tone} {Transparency or semitransparency} . {Intermediate layers, e.g. inner cover, outer core, mantle} {characterised by the material} . {Coefficient of restitution} {Hardness} {Thickness} {Deflection or compression} {Density; Specific gravity} {Melt flow rate [MFR]} {Flexural modulus; Bending stiffness}

Balls

37/0051	• • {Materials other than polybutadienes; Constructional details}
27/0052	,
37/0052	{Liquid cores}
37/0053	• • • • {Thread wound}
37/0054	{Substantially rigid, e.g. metal}
37/0055	\dots {with non-spherical insert(s)}
37/0056	{Hollow; Gas-filled}
37/0058	• • • • {Polyurethane}
37/0059	{Ionomer}
37/006	• • {Physical properties}
37/0061	{Coefficient of restitution}
37/0062	{Hardness}
37/00621	{Centre hardness}
37/00622	{Surface hardness}
37/0063	• • • • • {Hardness gradient}
37/0064	· · · · {Diameter}
37/0065	{Deflection or compression}
37/0066	• • • {Density; Specific gravity}
37/0067	• • • • {Weight; Mass}
37/0068	• • • • {Initial velocity}
37/0069	• • • • {Flexural modulus; Bending stiffness}
37/00691	• • • {Colour tone}
37/007	• • {Characteristics of the ball as a whole}
37/0072	• • • {with a specified number of layers}
37/0073	• • • • {Solid, i.e. formed of a single piece}
37/0074	• • • {Two piece balls, i.e. cover and core}
37/0075	•••• {Three piece balls, i.e. cover, intermediate layer and core}
37/0076	• • • {Multi-piece balls, i.e. having two or more intermediate layers}
37/0077	• • • {Physical properties}
37/00773	• • • {Moment of inertia}
37/00776	• • • {Slab hardness}
37/0078	• • • • {Coefficient of restitution}
37/008	{Diameter}
37/0082	• • • {Density; Specific gravity}
37/0083	•••• {Weight; Mass}
37/0084	• • • {Initial velocity}
37/0086	• • • {Flexural modulus; Bending stiffness}
37/0087	• • • {Deflection or compression}
37/0088	• • • • {Frequency}
37/0089	• • • {Coefficient of drag}
37/009	• • • • {Coefficient of lift}
37/0091	• • • {Density distribution amongst the different
	ball layers }
37/0092	• • • • {Hardness distribution amongst different ball
	layers}
37/00921	••••• {whereby hardness of the cover is higher than hardness of the intermediate layers}
37/00922	• • • • • {whereby hardness of the cover is lower
37/0093	than hardness of the intermediate layers}
	{Moisture vapour transmission rate [MVTR]}
37/0094	• • • • {Rebound resilience}
37/0095	{Scuff resistance}
37/0096	• • • • {Spin rate}
37/0097	{Layers interlocking by means of protrusions
	or inserts, lattices or the like}
37/0098	• {Rigid hollow balls, e.g. for pétanque}
37/02	• Special cores {(balls with finger holes
27/04	<u>A63B 37/0001</u> , golf ball cores <u>A63B 37/005</u>)}
37/04	• • Rigid cores

37/06	• • Elastic cores
2037/065	••• {Foam}
37/08	Liquid cores; Plastic cores
2037/082	• • • {Granular, e.g. comprising beads}
2037/085	• • • {liquid, jellylike}
2037/087	• • • {Wound cores or layers}
37/10	• • with eccentric centre of gravity
37/12	 Special coverings {, i.e. outer layer material (balls with finger holes <u>A63B 37/0001</u>, golf ball covers <u>A63B 37/0023</u>)}
2037/125	• • {stitchings}
37/14	• Special surfaces {(<u>A63B 37/0004</u> takes precedence)}
39/00	Hollow non-inflatable balls {, i.e. having no valves
2020/002	(rigid balls <u>A63B 37/00</u>)}
2039/003	• {substantially hollow and pressureless}
2039/006	• {pressurised}
39/02	• Arrangements for maintaining the pressure
2039/022	• • {using special gas-impermeable layers}
39/025	• { using containers with pressurising means for balls not in use }
39/027	• {using special inflation gases}
39/04	• Pricking-balls; {Tools for blowing them up}
39/06	• Special coverings
39/08	• made of two halves
41/00	Hollow inflatable balls
2041/005	• {with counterweight for adjusting the centre of
	gravity}
41/02	• Bladders
41/04	• Closures therefor
41/08	• Ball covers; Closures therefor
41/085	• {Closures}
41/10	Bladder and cover united
41/12	. Tools or devices for blowing up or closing balls
41/105	{(for pricking-balls <u>A63B 39/04</u>)}
41/125	• {Large inflatable balls primarily used as body supports for exercising, e.g. balancing}
43/00	Balls with special arrangements
2043/001	• {Short-distance or low-velocity balls for training, or
	for playing on a reduced area}
43/002	• {with special configuration, e.g. non-spherical (discs for throwing <u>A63B 65/10</u>)}
43/004	• {electrically conductive, e.g. for automatic arbitration}
43/005	• {with adhesive type surfaces, e.g. hook-and-loop type fastener}
43/007	 {Arrangements on balls for connecting lines or cords}
43/008	 {with means for improving visibility, e.g. special markings or colours (illuminating or reflecting means <u>A63B 43/06</u>)}
43/02	• with a handle
43/04	 with an eccentric centre of gravity; with mechanism for changing the centre of gravity (solid balls <u>A63B 37/10</u>)
43/06	 with illuminating devices {; with reflective surfaces}
45/00	Apparatus or methods for manufacturing balls
	(working of plastics or substances in a plastic state <u>B29</u>)

Balls

45/02	• Marking of balls	
47/00	Devices for handling or treating balls {, e.g. for holding or carrying balls}	
47/001	 {Ball holders attached to the player's body (golfing accessories, e.g. holders <u>A63B 57/20</u>)} 	
47/002	• {Devices for dispensing balls, e.g. from a reservoir (automatic teeing devices <u>A63B 57/0006</u> ; devices	20
2047/004	 for projecting balls <u>A63B 69/40</u>} • {having means preventing bridge formation during dispensing} 	
47/005	• {Ball heating devices}	
47/007	• {Devices for carrying, stacking or transporting bowling balls}	
47/008	• {Devices for measuring or verifying ball characteristics}	-20
47/02	• for picking-up {or collecting}	
47/021	• • {for picking-up automatically, e.g. by apparatus moving over the playing surface}	
2047/022	• • {Autonomous machines which find their own way around the playing surface}	
47/024	• • {for collecting by using a sweeping means moving across the playing surface}	
47/025	• • {Installations continuously collecting balls from the playing areas, e.g. by gravity, with conveyor belts}	
2047/027	• • • {Hydraulic ball transport}	
2047/028	• • • {pneumatic ball transport}	
47/04	• for cleaning balls (apparatus for cleaning balls, as accessories for bowling- or table alleys <u>A63D 5/10</u>)	
2047/043	• • {with drying means}	
2047/046	• • {Motorised}	
2047/040	···(intototised)	
	, or other accessories for ball games	
Rackets, bats,	, or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00)	
Rackets, bats,	, or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES	
Rackets, bats,	 , or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES 1. When classifying in groups A63B 49/00 - A63B 60/00, it is desirable to add 	
Rackets, bats,	 , or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor <u>A63B 51/00</u>) <u>NOTES</u> 1. When classifying in groups <u>A63B 49/00</u> - <u>A63B 60/00</u>, it is desirable to add the indexing codes of group <u>A63B 2102/00</u>. 	
Rackets, bats,	 , or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES 1. When classifying in groups A63B 49/00 - A63B 60/00, it is desirable to add 	
Rackets, bats,	 , or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES 1. When classifying in groups A63B 49/00 - A63B 60/00, it is desirable to add the indexing codes of group A63B 2102/00. 2. When classifying in groups A63B 49/00, A63B 53/00 or A63B 59/00, subject matter related to details or accessories of golf clubs, bats, 	
Rackets, bats,	 , or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES 1. When classifying in groups A63B 49/00 - A63B 60/00, it is desirable to add the indexing codes of group A63B 2102/00. 2. When classifying in groups A63B 49/00, A63B 53/00 or A63B 59/00, subject matter related to details or accessories of golf clubs, bats, rackets or the like are further classified in group 	
Rackets, bats,	 , or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES 1. When classifying in groups A63B 49/00 - A63B 60/00, it is desirable to add the indexing codes of group A63B 2102/00. 2. When classifying in groups A63B 49/00, A63B 53/00 or A63B 59/00, subject matter related to details or accessories of golf clubs, bats, 	
Rackets, bats,	 , or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES 1. When classifying in groups A63B 49/00 - A63B 60/00, it is desirable to add the indexing codes of group A63B 2102/00. 2. When classifying in groups A63B 49/00, A63B 53/00 or A63B 59/00, subject matter related to details or accessories of golf clubs, bats, rackets or the like are further classified in group 	
Rackets, bats, 49/00	 , or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES 1. When classifying in groups A63B 49/00 - A63B 60/00, it is desirable to add the indexing codes of group A63B 2102/00. 2. When classifying in groups A63B 49/00, A63B 53/00 or A63B 59/00, subject matter related to details or accessories of golf clubs, bats, rackets or the like are further classified in group A63B 60/00. 	
Rackets, bats, 49/00 49/02	 , or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES 1. When classifying in groups A63B 49/00 - A63B 60/00, it is desirable to add the indexing codes of group A63B 2102/00. 2. When classifying in groups A63B 49/00, A63B 53/00 or A63B 59/00, subject matter related to details or accessories of golf clubs, bats, rackets or the like are further classified in group A63B 60/00. . Frames 	
Rackets, bats, 49/00 49/02 2049/0201	 , or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES 1. When classifying in groups A63B 49/00 - A63B 60/00, it is desirable to add the indexing codes of group A63B 2102/00. 2. When classifying in groups A63B 49/00, A63B 53/00 or A63B 59/00, subject matter related to details or accessories of golf clubs, bats, rackets or the like are further classified in group A63B 60/00. Frames . {with defined head dimensions} 	
Rackets, bats, 49/00 49/02 2049/0201 2049/0202	 , or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES 1. When classifying in groups A63B 49/00 - A63B 60/00, it is desirable to add the indexing codes of group A63B 2102/00. 2. When classifying in groups A63B 49/00, A63B 53/00 or A63B 59/00, subject matter related to details or accessories of golf clubs, bats, rackets or the like are further classified in group A63B 60/00. Frames . {with defined head dimensions} . {surface area} 	
A9/00 49/02 2049/0201 2049/0202 2049/0203	 , or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES 1. When classifying in groups A63B 49/00 - A63B 60/00, it is desirable to add the indexing codes of group A63B 2102/00. 2. When classifying in groups A63B 49/00, A63B 53/00 or A63B 59/00, subject matter related to details or accessories of golf clubs, bats, rackets or the like are further classified in group A63B 60/00. Frames {with defined head dimensions} {surface area} {height} 	
49/02 2049/0201 2049/0202 2049/0203 2049/0203	 , or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES 1. When classifying in groups A63B 49/00 - A63B 60/00, it is desirable to add the indexing codes of group A63B 2102/00. 2. When classifying in groups A63B 49/00, A63B 53/00 or A63B 59/00, subject matter related to details or accessories of golf clubs, bats, rackets or the like are further classified in group A63B 60/00. Frames {with defined head dimensions} {surface area} {height} {width} 	
49/02 2049/0201 2049/0202 2049/0203 2049/0203	 , or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES 1. When classifying in groups A63B 49/00 - A63B 60/00, it is desirable to add the indexing codes of group A63B 2102/00. 2. When classifying in groups A63B 49/00, A63B 53/00 or A63B 59/00, subject matter related to details or accessories of golf clubs, bats, rackets or the like are further classified in group A63B 60/00. Frames {with defined head dimensions} {surface area} {height} {comprising at least two similar parts assembled with the interface plane parallel to the string plane} {with defined overall length} 	
49/02 2049/0201 2049/0202 2049/0203 2049/0204 2049/0204 2049/0205	 , or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES 1. When classifying in groups A63B 49/00 - A63B 60/00, it is desirable to add the indexing codes of group A63B 2102/00. 2. When classifying in groups A63B 49/00, A63B 53/00 or A63B 59/00, subject matter related to details or accessories of golf clubs, bats, rackets or the like are further classified in group A63B 60/00. Frames {with defined head dimensions} {surface area} {height} {comprising at least two similar parts assembled with the interface plane parallel to the string plane} 	
49/02 49/02 2049/0201 2049/0202 2049/0203 2049/0204 2049/0205	 , or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES 1. When classifying in groups A63B 49/00 - A63B 60/00, it is desirable to add the indexing codes of group A63B 2102/00. 2. When classifying in groups A63B 49/00, A63B 53/00 or A63B 59/00, subject matter related to details or accessories of golf clubs, bats, rackets or the like are further classified in group A63B 60/00. Frames {with defined head dimensions} {surface area} {width} {comprising at least two similar parts assembled with the interface plane parallel to the string plane} {with variable thickness of the head in a direction 	
49/02 2049/0201 2049/0202 2049/0203 2049/0204 2049/0205 2049/0207 2049/0211	 , or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES 1. When classifying in groups A63B 49/00 - A63B 60/00, it is desirable to add the indexing codes of group A63B 2102/00. 2. When classifying in groups A63B 49/00, A63B 53/00 or A63B 59/00, subject matter related to details or accessories of golf clubs, bats, rackets or the like are further classified in group A63B 60/00. Frames {with defined head dimensions} {surface area} {height} {with defined overall length} {with variable thickness of the head in a direction perpendicular to the string plane} 	
49/02 49/02 2049/0201 2049/0202 2049/0203 2049/0203 2049/0204 2049/0205 2049/0207 2049/0211 2049/0212	 , or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES 1. When classifying in groups A63B 49/00 - A63B 60/00, it is desirable to add the indexing codes of group A63B 2102/00. 2. When classifying in groups A63B 49/00, A63B 53/00 or A63B 59/00, subject matter related to details or accessories of golf clubs, bats, rackets or the like are further classified in group A63B 60/00. Frames {with defined head dimensions} {surface area} {height} {witht} {comprising at least two similar parts assembled with the interface plane parallel to the string plane} {with variable thickness of the head in a direction perpendicular to the string plane} {with defined weight} 	
49/02 49/02 2049/0201 2049/0202 2049/0203 2049/0204 2049/0205 2049/0207 2049/0207 2049/0211 2049/0212 2049/0213	 , or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES 1. When classifying in groups A63B 49/00 - A63B 60/00, it is desirable to add the indexing codes of group A63B 2102/00. 2. When classifying in groups A63B 49/00, A63B 53/00 or A63B 59/00, subject matter related to details or accessories of golf clubs, bats, rackets or the like are further classified in group A63B 60/00. Frames {with defined head dimensions} {surface area} {with defined head two similar parts assembled with the interface plane parallel to the string plane} {with defined overall length} {with defined weight} {with defined weight} {without strings} 	

49/022 . String guides on frames, e.g. grommets

49/025	• • Means on frames for clamping string ends
49/028	• • Means for achieving greater mobility of the string bed
49/03	• characterised by throat sections, i.e. sections or elements between the head and the shaft
49/032	T-shaped connection elements
2049/0325	• • {with two legs having mutually different constructions}
49/035	• • with easily dismountable parts, e.g. heads, shafts or grips
49/038	• • with head subframes for replacing strings
49/08	• with special construction of the handle
49/10	• made of non-metallic materials, other than wood
2049/103	• • {string holes produced during moulding process}
49/11	• • • with inflatable tubes, e.g. inflatable during fabrication
49/12	• • made of metal
49/14	. Protection devices on the frame
51/00	Stringing tennis, badminton or like rackets;
	Strings therefor; Maintenance of racket strings
51/001	• {using strings made of different materials on the same frame, e.g. gut and nylon}
51/002	 {using strings with different cross-sections on the same frame, e.g. with different thickness}
51/004	 {using strings with different tension on the same
	frame}
51/005	• Devices for measuring the tension of strings (for controlling the tension during stringing <u>A63B 51/14</u>)
51/01	• Pre-woven string-sets ready for insertion into a frame
51/015	String-aligning tools
51/02	Strings; String substitutes; Products applied on
	strings, e.g. for protection against humidity or wear
51/023	• • {Strings having characteristics varying along the length of the string, e.g. diameter or elasticity}
51/026	• • {Strings having non-circular cross-section}
51/04	. Sheet-like structures used as substitutes
51/045	• • • {Wooden blades with perforations}
51/06	Double-sided stringing
51/08	Diagonal stringing
51/10	Reinforcements for stringing
51/11	• Intermediate members for the cross-points of the strings
51/12	• Devices arranged in or on the racket for adjusting the tension of the strings
51/14	• Arrangements for stringing, e.g. for controlling the tension of the strings during stringing
51/143	• • {Hand-held string-tensioning devices}
51/146	• • {Devices simultaneously raising and lowering alternate longitudinal strings previously mounted in a frame, to facilitate the threading of the cross strings}
51/16	• Apparatus for stringing while manufacturing
53/00	Golf clubs
	NOTE
	When classifying in group <u>A63B 53/00</u> and subgroups, subject matter related to details or accessories of golf clubs, bats, rackets or the like are further classified in group <u>A63B 60/00</u> .

53/002	• {Clubs made of composite, plastics or rubber	5
52 100 5	materials, with integral head and shaft}	5
53/005	• {Club sets}	5
53/007	• {Putters}	
53/02 53/021	• Joint structures between the head and the shaft	
	 {the shaft axis being forwardly offset relative to the striking face of the head} 	-
53/022	• • {allowing adjustable positioning of the head with respect to the shaft}	4
53/023	• • • {adjustable angular orientation}	
53/025	• • • {lie angle only, i.e. relative angular	205
	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}	205
53/026	• • • • {loft angle only, i.e. relative angular	4
	adjustment between the shaft and the club head about a horizontal axis perpendicular to the intended line of play when the club is in its normal address position}	
53/027	• • • {about the longitudinal axis of the shaft only}	
53/028	• • • { with a range of alternative attachment points for the shaft }	4
53/04	• Heads	205
53/0408	 {characterised by specific dimensions, e.g. thickness} 	205
53/0412	• • • {Volume}	205
53/0416	 {Heads having an impact surface provided by a face insert} 	205
53/042	 . { the face insert consisting of a material different from that of the head} 	205
53/0425	 {the face insert comprising two or more different materials} 	205
53/0429	 {the face insert comprising two or more layers of material} 	20.
53/0433	• {with special sole configurations}	5
53/0437	 {with special crown configurations} {with special crown configurations}	4
53/0441	• {with visual indicators for aligning the golf club}	
53/0445	• {Details of grooves or the like on the impact surface}	4
53/045	• {Strengthening ribs}	4
53/0454	• • • {Strengthening ribs on the rear surface of the	4
	impact face plate}	4
53/0458	• {with non-uniform thickness of the impact face plate}	4
53/0462	 . {characterised by tapering thickness of the impact face plate} 	
53/0466	• • {wood-type}	4
53/047	• · {iron-type}	4
53/0475	• • { with one or more enclosed cavities }	4
2053/0479	• • • {Wedge-type clubs, details thereof}	4
2053/0483	• • • {Chipping clubs, details thereof}	
53/0487	• { for putters (<u>A63B 53/065</u> takes precedence)}	4
2053/0491	• • {with added weights, e.g. changeable, replaceable}	4
2053/0495	 • {moving on impact, slidable, spring or otherwise elastically biased} 	4
53/06	• • adjustable	4
53/065	• • • { for putters }	4
53/08	• with special arrangements for obtaining a variable impact	-
53/10	• Non-metallic shafts	

53/12	• Metallic shafts
53/14	• Handles
55/00	Bags for golf clubs; Stands for golf clubs for use on the course; Wheeled carriers specially adapted for golf bags
55/10	• Stands for golf clubs {, e.g.} for use on the course {; Golf club holders, racks or presses}
55/20	• with special receptacles for the balls
55/30	Bags with wheels
55/40	• Bags with partitions or club holders
055/402	• {Warning devices for indicating missing golf clubs}
055/403	• {Security means for locking golf clubs in the bag}
55/404	• {Covers or hoods for golf bags}
55/406	• • {releasably attached}
55/408	• {Releasably mounted accessories fitted outside the bag, e.g. straps or holders (<u>A63B 55/20</u> and <u>A63B 55/50</u> take precedence)}
55/50	• Supports, e.g. with devices for anchoring to the ground
55/53	• • with legs opening automatically upon putting the bag on the ground
55/57	• • Bags with tripod or like set-up stands
55/60	. Wheeled carriers specially adapted for golf bags
055/601	• • {Caddies fitted with means for sitting}
.055/602	• • {Means for mounting weather shields, e.g. umbrellas, on caddies}
055/603	• • {with means for trailing the caddy other than by hand}
.055/604	• • • {by mechanical links attached to the golf players}
055/605	• • • {by remote control}
55/61	{motorised}
055/615	• • • {Units for converting manually-driven golf carts into motorised ones}
57/00	Golfing accessories
57/0006	 {Automatic teeing devices (devices for automatically dispensing balls in general A63B 47/002)}
57/0012	• {Devices for forming the tees}
57/0032	• {Tee-gauges; Tee-repairing devices}
57/0037	• {Devices for inserting or extracting tees}
57/10	. Golf tees
57/12	• • attached to straps
57/13	• • foldable or separable
57/15	• • height-adjustable
57/16	. Brush-type tees
57/18	• • with writing means
57/19	• • with direction indicators
57/20	• Holders, e.g. of tees or of balls
57/203	• {Tee holders (to be fitted on golf bags or caddies <u>A63B 55/408</u>)}
57/207	• • {Golf ball position marker holders}
57/30	• Markers
57/35	• • with magnets
57/353	• • {Golf ball position markers}
57/357	• { for golf cups or holes, e.g. flags }
57/40	• Golf cups or holes
57/405	• {Cups with automatic ball ejector means}
57/50 57/505	• specially adapted for course maintenance
57/505	• {Hole information stands, e.g. tee-boxes}

57/60	• Cleaning or maintenance of golf clubs, putters, shoes or other golf accessories ({cleaning balls <u>A63B 47/04;</u> } devices for cleaning handles or grips	60/10 60/12
2057/605	of golf clubs or putters <u>A63B 60/36</u>). {Means for heating or drying golf clubs}	60/14
59/00	Bats, rackets, or the like, not covered by groups	
57/00	A63B 49/00 - A63B 57/00	60/16
	NOTES	60/18
		60/20
	1. In this group, the following term is used with the	60/20
	meaning indicated:"ball" covers also pucks or other objects to be	60/22
	hit during the game.	60/24
	2. When classifying in group <u>A63B 59/00</u> and	60/28
	subgroups, subject matter related to details or	60/30
	accessories of golf clubs, bats, rackets or the like	60/32
	are further classified in group A63B 60/00.	
59/20	• having means, e.g. pockets, netting or adhesive	60/34
	type surfaces, for catching or holding a ball, e.g. for	
	lacrosse or pelota	60/36
59/30	• forming hand-held throwing or catching aids for use	60/38
	with rings, discs, wheels or cylindrical throwing-	(0/40
	bodies, or for use with balls having a central bore	60/40
59/40	• Rackets or the like with flat striking surfaces for	60/42
50/42	hitting a ball in the air, e.g. for table tenniswith solid surfaces	00/42
59/42 59/45	Rubber parts thereof; characterised by bonding	
59/45	between a rubber part and the racket body	
59/48	• • with perforated surfaces	60/44
59/50	• Substantially rod-shaped bats for hitting a ball in the	60/46
	air, e.g. for baseball	
59/51	• • made of metal	
59/52	• • made of wood or bamboo	
59/54	made of plastic	2060/462
59/55	• • with non-circular cross-section	
59/56	• characterised by the head	2060/464
59/58	• characterised by the shape ($\underline{A63B}$ 59/55,	
2059/581	A63B 59/56 take precedence) {with a continuously tapered barrel}	60/48
2039/381 59/59	 . {with a continuously tapered barren} . with sound generators, e.g. with internal movable 	60/50
53/53	members therefor	60/50
59/60	• of mallet type, e.g. for croquet {or polo}	60/52 60/54
59/70	• with bent or angled lower parts for hitting a ball on	60/54 60/56
	the ground, on an ice-covered surface, or in the air,	00/30
	e.g. for hockey or hurling	60/58
59/80	. Circular bats or paddles not provided for in groups	60/60
	<u>A63B 59/20</u> - <u>A63B 59/70</u>	60/62
60/00	Details or accessories of golf clubs, bats, rackets or	
	the like	60/64
60/002	• {Resonance frequency related characteristics}	61/00
60/004	 {Striking surfaces coated with high-friction abrasive materials} 	
60/006	 {Surfaces specially adapted for reducing air resistance} 	61/003
60/0081	• {Substantially flexible shafts; Hinged shafts}	
60/0085	• {Telescopic shafts}	61/006
60/02	. Ballast means for adjusting the centre of mass	
60 (D. 1	(<u>A63B 60/24</u> , <u>A63B 60/54</u> take precedence)	61/02
60/04	• Movable ballast means {(<u>A63B 15/005</u> takes	
60/06	precedence)} . Handles	00 11 10 2 5
00/00	• 114114105	2061/025
60/08	• • characterised by the material	

60/10	 with means for indicating correct holding positions (<u>A63B 60/12</u> takes precedence)
60/12	contoured according to the anatomy of the user's
60/14	hand . Coverings specially adapted for handles, e.g.
60 /1 <i>6</i>	sleeves or ribbons
60/16	• Caps; Ferrules
60/18	• with means for cooling, ventilating or sweat- reduction, e.g. holes or powder dispensers
60/20	• • with two handgrips
60/22	• • Adjustable handles
60/24	Weighted handles
60/26	• • • with adjustable stiffness
60/28	• • • with adjustable length
60/30	• • • with adjustable circumference
60/32	• with means for changing the angular position of the handle about its longitudinal axis
60/34	• with the handle axis different from the main axis of the implement
60/36	• Devices for cleaning handles or grips
60/38	• Structurally associated means for storing and
	dispensing balls
60/40	• having holding means provided inside, on the edge or on the rear face of the striking surface
60/42	• Devices for measuring, verifying, correcting or
	customising the inherent characteristics of golf
	clubs, bats, rackets or the like, e.g. measuring the
	maximum torque a batting shaft can withstand
60/44	. Presses for stringed rackets
60/46	• Measurement devices associated with golf clubs, bats, rackets or the like for measuring physical parameters relating to sporting activity, e.g. baseball bats with impact indicators or bracelets for
060/462	measuring the golf swing
060/462	•• {Devices measuring hand characteristics to determine correct grip size}
060/464	• {Means for indicating or measuring the pressure
000/404	on the grip}
60/48	• with corrugated cross-section
60/50	• with through-holes (<u>A63B 60/18</u> takes precedence;
00/30	for stringing purposes <u>A63B 49/00</u>)
60/52	• with slits
60/54	• with means for damping vibrations
60/56	• Devices for protection, storage or transport, e.g.
	stands or cases
60/58	• • specially adapted for rackets
60/60	• specially adapted for bats
60/62	• • specially adapted for clubs, e.g. head covers {,
	connector means therefor}
60/64	Sheaths for golf clubs
61/00	Tennis nets or accessories for tennis or like games
	{, e.g. volley-ball (devices for holding or carrying
	balls <u>A63B 47/00;</u> for table tennis <u>A63B 67/04</u>)}
61/003	• {Nets for tennis or like games or accessories therefor (straining or adjusting devices on the posts
61/006	<u>A63B 61/02</u>)} {Accessories for training purposes mounted on
	the net}
61/02	• Posts; Revolvably-mounted posts {; Straining or adjusting devices on the posts, e.g. coin- or time operated
061/025	<pre>operated } {electrically driven}</pre>
.061/025	• • {electrically univen}

 63/00 Targets or goals for ball games (golf cups A63B 57/40) 2063/001 • {Targets or goals with ball-returning means} 2063/002 • {variable in size} 63/003 • {non-electronic means for locating the point of impact on a target or the point of entry in the goal}
2063/001. {Targets or goals with ball-returning means}2063/002. {variable in size}63/003. {non-electronic means for locating the point of
2063/002 . {variable in size}63/003 . {non-electronic means for locating the point of
63/003 • {non-electronic means for locating the point of
impact on a target of the point of entry in the goar
63/004 • {Goals of the type used for football, handball, hockey or the like}
2063/005 • {having means not protruding from the profile of the post for attachment of a net}
2063/006 • {Forming a target or goal by fixing net or target are
to garage doorway or garage parts}
63/007 • {Target zones without opening defined on a substantially horizontal surface}
63/008 • {Goals for rugby or American football}
63/06 • Revolving targets {; Moving targets, e.g. moving o revolving on impact}
2063/065 {movable or switchable between discrete
positions, e.g. after a successful shot}
 63/08 • with {substantially} horizontal opening for ball, e.g. for basketball {(<u>A63B 57/40, A63B 63/06</u> take precedence)}
63/083 {for basketball}
63/083. {for basketball}2063/086 {deflectable under excessive loads}
 2063/086 {deflectable under excessive loads} 65/00 Implements for throwing (throwing toys <u>A63H 33/18</u>){; Mechanical projectors, e.g.
2063/086 {deflectable under excessive loads} 65/00 Implements for throwing (throwing toys <u>A63H 33/18</u>){; Mechanical projectors, e.g. using spring force}
 2063/086 {deflectable under excessive loads} 65/00 Implements for throwing (throwing toys <u>A63H 33/18</u>){; Mechanical projectors, e.g. using spring force} 65/02 . Spears or the like {; Javelins}
2063/086 {deflectable under excessive loads} 65/00 Implements for throwing (throwing toys A63H 33/18) {; Mechanical projectors, e.g. using spring force} 65/02 . Spears or the like {; Javelins} 65/04 . Throwing-hammers
 2063/086 {deflectable under excessive loads} 65/00 Implements for throwing (throwing toys <u>A63H 33/18</u>){; Mechanical projectors, e.g. using spring force} 65/02 . Spears or the like {; Javelins} 65/04 . Throwing-hammers 65/06 . Heavy throwing-balls {, i.e. "medicine balls", shots weights or stones for putting}
 2063/086 {deflectable under excessive loads} 65/00 Implements for throwing (throwing toys <u>A63H 33/18</u>){; Mechanical projectors, e.g. using spring force} 65/02 . Spears or the like {; Javelins} 65/04 . Throwing-hammers 65/06 . Heavy throwing-balls {, i.e. "medicine balls", shots weights or stones for putting} 65/08 . Boomerangs {; Throwing apparatus therefor}
 2063/086 {deflectable under excessive loads} 65/00 Implements for throwing (throwing toys A63H 33/18) {; Mechanical projectors, e.g. using spring force} 65/02 . Spears or the like {; Javelins} 65/04 . Throwing-hammers 65/06 . Heavy throwing-balls {, i.e. "medicine balls", shots weights or stones for putting} 65/08 . Boomerangs {; Throwing apparatus therefor} 65/10 . Discus discs; Quoits
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 2063/086 {deflectable under excessive loads} 65/00 Implements for throwing (throwing toys <u>A63H 33/18</u>){; Mechanical projectors, e.g. using spring force} 65/02 . Spears or the like {; Javelins} 65/04 . Throwing-hammers 65/06 . Heavy throwing-balls {, i.e. "medicine balls", shots weights or stones for putting} 65/08 . Boomerangs {; Throwing apparatus therefor} 65/10 . Discus discs; Quoits 65/12 . Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids <u>A63B 59/20</u> Mechanical projectors, e.g. using spring force} 65/122 . {Hand-held mechanical projectors, e.g. for balls
 2063/086 {deflectable under excessive loads} 65/00 Implements for throwing (throwing toys <u>A63H 33/18</u>){; Mechanical projectors, e.g. using spring force} 65/02 . Spears or the like {; Javelins} 65/04 . Throwing-hammers 65/06 . Heavy throwing-balls {, i.e. "medicine balls", shots weights or stones for putting} 65/08 . Boomerangs {; Throwing apparatus therefor} 65/10 . Discus discs; Quoits 65/12 . Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids <u>A63B 59/20</u> Mechanical projectors, e.g. using spring force} 65/122 {Hand-held mechanical projectors, e.g. for balls 65/125 {with handles or grips on both sides of the
 2063/086 {deflectable under excessive loads} 65/00 Implements for throwing (throwing toys <u>A63H 33/18</u>){; Mechanical projectors, e.g. using spring force} 65/02 . Spears or the like {; Javelins} 65/04 . Throwing-hammers 65/06 . Heavy throwing-balls {, i.e. "medicine balls", shots weights or stones for putting} 65/08 . Boomerangs {; Throwing apparatus therefor} 65/10 . Discus discs; Quoits 65/12 . Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids <u>A63B 59/20</u> Mechanical projectors, e.g. using spring force} 65/122 . {Hand-held mechanical projectors, e.g. for balls
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 2063/086 {deflectable under excessive loads} 65/00 Implements for throwing (throwing toys <u>A63H 33/18</u>){; Mechanical projectors, e.g. using spring force} 65/02 . Spears or the like {; Javelins} 65/04 . Throwing-hammers 65/06 . Heavy throwing-balls {, i.e. "medicine balls", shots weights or stones for putting} 65/08 . Boomerangs {; Throwing apparatus therefor} 65/10 . Discus discs; Quoits 65/12 . Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids <u>A63B 59/20</u> Mechanical projectors, e.g. using spring force} 65/122 {Hand-held mechanical projectors, e.g. for balls 65/125 {with handles or grips on both sides of the catching-throwing means, for two-handed use 65/127 {Means for throwing or catching balls, attached the foot}
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	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}
2067/061	• {Means to mark out tossing area}
2067/063	• {tossing, e.g. rings or horseshoes around or on, e.g. posts, hooks}
2067/065	• • {used tossed devices of different sizes giving different degrees of difficulty for fitting in or over a target}
67/066	• {using balls on a horizontal playing ground, e.g. petanque}
67/068	• • {Devices used therewith for measuring distance or difference in distance}
67/08	• Juggling or spinning ball games played as games of skill (<u>A63B 67/16</u> takes precedence)
67/083	• {Juggling games with integral catching or bouncing arrangements}
67/086	• { Juggling games using sticks or discs }
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 <u>A63B 67/20</u> , pin games with tethered balls <u>A63D 7/00</u>){; Games using tethered bodies, e.g. balls, not otherwise provided for}
67/12	• Flip games {, i.e. games using playing bodies being flipped or twirled up in the air, e.g. for hitting them with a bat; Games of tip-cat}
67/14	• Curling stone; Shuffleboard; Similar sliding games
2067/142	• • {with braking means}
2067/144	••• {variable}
2067/146	• • {Stones with rolling elements}

67/148	• • {Curling brooms or brushes}
67/16	 Diabolos or similar thrown and caught spinning tops; Throwing and catching devices therefor
67/165	• • {the diabolo being able to rotate freely in one direction only, e.g. fitted with an over-running clutch}
67/18	. Badminton or similar games with feathered missiles
67/183	• • Feathered missiles
67/187	Shuttlecocks
67/19	with several feathers connected to each other
67/193	with all feathers made in one piece
67/197	• • • with special functions, e.g. light emission or sound generation
67/20	• Games using a bat {or racket} with a ball {or other body} tethered thereto
67/205	• • {the bat having one or more spigots for catching bodies having a bore, e.g. rings}
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}
69/00	Training appliances or apparatus for special
	sports (training of parachutists <u>B64D 23/00</u>)
69/0002	• {for baseball}
.069/0004	• • {specially adapted for particular training aspects}
069/0006	• • {for pitching}

2069/0004	• • {specially adapted for particular training aspects}
2069/0006	• • • {for pitching}
2069/0008	• • • {for batting}
2069/0011	• • • {Catching}
69/0013	• • {Baseball bases}
69/0015	• {for cricket}
69/0017	• {for badminton}

69/002	• {for football (American-football dummies <u>A63B 69/34</u>)}
69/0022	• {for skating}
69/0022	• {for hockey}
69/0024	. {for ice-hockey}
69/0020	
	• {for running, jogging or speed-walking (movable endless bands <u>A63B 22/02</u>)}
2069/0031	• • {Speed-walking}
2069/0033	• • {Nordic walking, i.e. using poles for walking}
69/0035	• • {on the spot}
2069/0037	• • {safety devices, e.g. warning bells, rear-view mirrors}
69/0046	• {for bowling}
69/0048	• {for mountaineering, e.g. climbing-walls, grip elements for climbing-walls}
69/0053	• {Apparatus generating random stimulus signals
	for reaction-time training involving a substantial
	physical effort}
69/0055	• {with means for distracting the user, e.g. visual or
	audio means}
69/0057	• {Means for physically limiting movements of body
	parts (<u>A63B 23/0211</u> takes precedence)}
69/0059	• • {worn by the user}
69/0062	 {Leg restraining devices}
69/0064	• {Attachments on the trainee preventing falling}
69/0066	 {for wind-surfing}
69/0068	• {for bull-fighting, or animal-roping}
69/0071	• {for basketball}
69/0071	• {Means for releasably holding a ball in position;
09/0075	Balls constrained to move around a fixed point, e.g.
	by tethering }
69/0075	• {Means for releasably holding a ball in position
0,10015	prior to kicking, striking or the like (golf tees A63B 57/10)}
2069/0077	• • {Suspending a ball on an upright stream of air or
	water}
69/0079	• • {Balls tethered to a line or cord (A63B 43/007
	takes precedence; other games using tethered
	balls A63B 67/10; games using a bat or racket
	with a ball tethered thereto A63B 67/20)
2069/0082	• • • {with movement of the cord-attachment along
	its rotational axis as a function of the number of
	revolutions, e.g. following a helicalmember}
69/0084	• • • {the line or cord being fixed to at least two
	points}
69/0086	• • • {the line or cord being attached to the user
	(A63B 21/0608 takes precedence; punching
	balls attached to the user A63B 69/26)}
69/0088	• • • {the line or cord having a handle}
69/0091	• • {Balls fixed to a movable, tiltable or flexible
	arm}
69/0093	• {for surfing, i.e. without a sail; for skate or snow
	boarding}
69/0095	• {for volley-ball}
69/0097	• {Ball rebound walls (with holes or in combination
	with nets <u>A63B 63/00</u>)}
69/02	for fencing {, e.g. means for indicating hits}
2069/025	• • {with conductive floor used as part of the
	detection circuit}
69/04	. simulating the movement of horses (toy animals for
	riding <u>A63G 19/00</u>)
69/06	• for rowing or sculling
2069/062	• • {by pulling on a cable}

2069/064	• • {with pivoting handlebars}
2069/066	• • {with handlebars rotating about a horizontal axis}
2069/068	• • {kayaking, canoeing}
69/08	• • with water-filled pools
69/10	. Swimming instruction apparatus for use without
	water
69/12	 Arrangements in swimming pools for teaching swimming {or for training}
69/125	• {Devices for generating a current of water in
0)/125	swimming pools}
69/14	• • Teaching frames for swimming {; Swimming
0,7,1	boards}
69/16	• for cycling {, i.e. arrangements on or for real
	bicycles}
2069/161	• {supports for the front of the bicycle}
2069/162	• • • {for front fork or handlebar}
2069/163	• • • {for the front wheel}
2069/164	• • {supports for the rear of the bicycle, e.g. for the
	rear forks}
2069/165	• • { rear wheel hub supports }
2069/166	• • {supports for the central frame of the bicycle, e.g.
	for the crank axle housing, seat tube or horizontal tube }
2069/167	• {on rollers without further support}
2069/168	• • {Force transfer through the rim of the wheel}
69/18	• for skiing
69/182	• • {for cross-country-skiing (<u>A63B 23/0417</u> ,
	A63B $69/0022$ take precedence)
2069/185	• • {for ski-jumping}
69/187	• • {for water-skiing}
69/20	• Punching balls {, e.g. for boxing; Other devices for
	striking used during training of combat sports, e.g.
	bags}
69/215	• • {Anthropomorphic devices}
69/22	• • mounted on, or suspended from, a fixed support
69/222	• • {suspended from a fixed support}
69/224	• • • {mounted on a resilient foot}
69/24	• • mounted on, or suspended from, a movable
	support
69/244	• • {suspended from a movable support}
69/26	attached to the human body
69/28	Attachments located on the balls {or other
	training devices} at opposite points
69/30	Resilient attachments
69/305	• • {Hanging heavy punching bags}
69/32	• • with indicating devices
69/322	• • • {to instruct user where to strike}
69/325	• • • {for vertical blows on a horizontal surface}
69/331	• {Breaking boards or holders therefore, i.e. devices
	for destroying exercises }
69/333	• {Fake or disarmed practise weapons, i.e. for
	mimicking combat situations in martial arts
	training}

	training}
69/34	• {Tackling, blocking or grappling dummies, e.g.}
	boxing or {wrestling or American-} football
	dummies
69/36	• for golf

69/3605	• • {Golf club selection aids informing player of his average or expected shot distance for each club}
69/3608	• • {Attachments on the body, e.g. for measuring, aligning, restraining (A63B 69/0059, A63B 69/3673 take precedence)}

69/3614	• {using electro-magnetic, magnetic or ultrasonic radiation emitted, reflected or interrupted by the
69/3617	golf club}{Striking surfaces with impact indicating means, e.g. markers}
69/362	• • {electrical or electronic}
69/3621	 Contacting or non-contacting mechanical means for guiding the swing}
69/36211	 . {Mechanical guides guiding the club head end during the complete swing, e.g. rails}
69/36212	 { with a flexible member fixed on the club and rotating around a fixed supporting point (clubs only for gymnastics or muscular training <u>A63B 15/00</u>)}
69/36213	• • • { with arm or rod fixed on the club and rotating around a fixed supporting point }
69/3623	 {for driving (<u>A63B 69/3608</u>, <u>A63B 69/3658</u>, <u>A63B 69/3661</u>, <u>A63B 69/3667</u> and <u>A63B 69/3691</u> take precedence)}
69/3629	• • {Visual means not attached to the body for aligning, positioning the trainee's head or for detecting head movement, e.g. by parallax}
69/3632	 Clubs or attachments on clubs, e.g. for measuring, aligning (<u>A63B 69/3614</u> takes precedence; clubs for swinging exercises in general <u>A63B 15/00</u>)
69/3635	• • • {with sound-emitting source}
69/3638	 {Normal golf clubs with directly attached weights}
69/3652	• • • {Inclined platforms for practising drives from
69/3655	slopes }• {Balls, ball substitutes, or attachments on balls therefor }
69/3658	• • {Means associated with the ball for indicating or measuring, e.g. speed, direction}
69/3661	• • {Mats for golf practice, e.g. mats having a simulated turf, a practice tee or a green area}
2069/3664	• • { with bristles, the length of which can be adjusted }
69/3667	• • {Golf stance aids, e.g. means for positioning a golfer's feet}
2069/367	• • {Detection of balance between both feet, i.e. weight distribution}
69/3673	• • • {Foot inclining aids; Foot wobbling devices}
69/3676	 {for putting (<u>A63B 69/3608, A63B 69/3661, A63B 69/3667</u> and <u>A63B 69/3697</u> take precedence)}
69/3682	• • {Visual means not attached to the body for aligning, positioning the trainee's head or for detecting head movement, e.g. by parallax}
69/3685	• • • {Putters or attachments on putters, e.g. for measuring, aligning (<u>A63B 69/3614</u> takes precedence)}
69/3688	• • {Balls, ball substitutes, or attachments on balls therefor}
69/3691	 {Golf courses; Golf practising terrains having a plurality of driving areas, fairways, greens (special golf games, e.g. miniature golf, <u>A63B 67/02</u>; mats for simulating golf greens <u>A63B 69/3661</u>)}
69/3694	• • • {for driving only}
69/3697	• • • { with putting taking place on a green other than
	the target green}

69/38	• for tennis {(<u>A63B 61/006</u> , <u>A63B 69/0073</u> and
/	<u>A63B 69/0097</u> take precedence)}
69/385	• {for practising the serve}
69/40	• Stationarily-arranged devices for projecting balls {or other bodies} ({golf cups with ball ejector
	means A63B 57/405; } traps for clay-pigeon
	targets $F41J 9/18$)
2069/401	• • {substantially vertically, e.g. for baseball}
2069/402	• • {giving spin}
2069/403	• • • {back or reverse spin}
2069/404	• • • {side spin}
2069/405	••• {top spin}
69/406	• • {with rotating discs, wheels or pulleys gripping
60/407	and propelling the balls or bodies by friction }
69/407 69/408	 . {with spring-loaded propelling means} . {with rotating propelling arm}
69/408	 • { with rotating propering arm} • { with pneumatic ball- or body-propelling means }
71/00	Games or sports accessories not covered in groups
	<u>A63B 1/00</u> - <u>A63B 69/00</u> (starting appliances
71/0009	A63K 3/02) . {for handicapped persons}
2071/0018	 (for wheelchair users)
2071/0027	 (visually handicapped)
71/0036	• {Accessories for stowing, putting away or
	transporting exercise apparatus or sports equipment
	(<u>A63B 47/00</u> , <u>A63B 55/00</u> , <u>A63B 60/56</u> take
	precedence)}
71/0045	• {specially adapted for games played with rackets or bats (<u>A63B 60/56</u> takes precedence)}
71/0054	• {Features for injury prevention on an apparatus,
/1/0054	e.g. shock absorbers (mats or the like for absorbing
	shocks for jumping <u>A63B 6/00</u>)}
2071/0063	• • {Shock absorbers}
2071/0072	• • {Limiting the applied force, torque, movement or
	speed}
2071/0081	• {Stopping the operation of the apparatus}
2071/009	• • {Protective housings covering the working parts of the apparatus}
71/02	• for large-room or outdoor sporting games
71/021	 Stays or guy-ropes}
71/022	• {Backstops, cages, enclosures or the like, e.g. for
	spectator protection, for arresting balls}
71/023	• • {Supports, e.g. poles}
2071/024	• • • {with screws or pins in the earth}
2071/025	• • • {on rollers or wheels}
2071/026 2071/027	 {stabilised by weight} {using player's own weight, e.g. on a
2071/027	• • • {using player's own weight, e.g. on a platform}
71/028	• • {Floor sockets for removable poles}
71/03	• • {Athletic drills or obstacles for sport training,
	other than foot obstacles for skipping}
71/04	. for small-room or indoor sporting games
71/06	• Indicating or scoring devices for games or players {,
2071/0602	or for other sports activities}
2071/0602 71/0605	. {Non-electronic means therefor}. {Decision makers and devices using detection
/1/0003	means facilitating arbitration }
71/0608	• • { using mechanical, i.e. non-electrical means}
2071/0611	• • • {Automatic tennis linesmen, i.e. in-out
	detectors}
2071/0613	• • • {Automatic net-fault detectors}
71/0616	• • {Means for conducting or scheduling
	competition, league, tournaments or rankings}

71/0610	(Displace consistent and indicating devices
71/0619	• {Displays, user interfaces and indicating devices, specially adapted for sport equipment, e.g. display
	mounted on treadmills}
71/0622	• • • {Visual, audio or audio-visual systems for
	entertaining, instructing or motivating the user}
2071/0625	• • • • {Emitting sound, noise or music}
2071/0627	• • • • { when used improperly, e.g. by giving a warning }
2071/063	• • • • {Spoken or verbal instructions}
2071/0633	• • • • {without electronic means}
2071/0636	• • • {3D visualisation}
2071/0638	{Displaying moving images of recorded
	environment, e.g. virtual environment}
2071/0641	••••• {with a marker advancing in function of
2071/0644	the exercise }
2071/0044	controlled by the user's performance}
2071/0647	• • {Visualisation of executed movements}
2071/065	• • {Visualisation of specific exercise parameters}
2071/0652	•••• {Visualisation or indication relating
	to symmetrical exercise, e.g. right-left
	performance related to spinal column}
2071/0655	{Tactile feedback}
2071/0658	• • {Position or arrangement of display}
2071/0661 2071/0663	 {arranged on the user} {worn on the wrist, e.g. wrist bands}
2071/0666	 {worn on the wrist, e.g. wrist bands} {worn on the head or face, e.g. combined
2071/0000	with goggles or glasses }
71/0669	• • {Score-keepers or score display devices}
71/0672	{using non-electronic means}
2071/0675	• • {Input for modifying training controls during
	workout}
2071/0677	• • • {Input by image recognition, e.g. video
2071/069	signals}
2071/068	{Input by voice recognition}
2071/0683	 {Input by voice recognition} {Input by handheld remote control}
	{Input by voice recognition}
2071/0683	 . {Input by voice recognition} . {Input by handheld remote control} . {Timers, rhythm indicators or pacing apparatus using electric or electronic means} . {using non-electronic means, e.g. mechanical,
2071/0683 71/0686 2071/0688	 . {Input by voice recognition} . {Input by handheld remote control} . {Timers, rhythm indicators or pacing apparatus using electric or electronic means} . {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means}
2071/0683 71/0686 2071/0688 2071/0691	 . {Input by voice recognition} . {Input by handheld remote control} . {Timers, rhythm indicators or pacing apparatus using electric or electronic means} . {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means} . {Maps, e.g. yardage maps or electronic maps}
2071/0683 71/0686 2071/0688 2071/0691 2071/0694	 . {Input by voice recognition} . {Input by handheld remote control} . {Timers, rhythm indicators or pacing apparatus using electric or electronic means} . {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means} . {Maps, e.g. yardage maps or electronic maps} . {Visual indication, e.g. Indicia}
2071/0683 71/0686 2071/0688 2071/0691 2071/0694 71/0697	 . {Input by voice recognition} . {Input by handheld remote control} . {Timers, rhythm indicators or pacing apparatus using electric or electronic means} . {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means} . {Maps, e.g. yardage maps or electronic maps} . {Visual indication, e.g. Indicia} . {Reservation devices}
2071/0683 71/0686 2071/0688 2071/0691 2071/0694	 . {Input by voice recognition} . {Input by handheld remote control} . {Timers, rhythm indicators or pacing apparatus using electric or electronic means} . {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means} . {Maps, e.g. yardage maps or electronic maps} . {Visual indication, e.g. Indicia} . {Reservation devices} . Body-protectors for players or sportsmen {, i.e.
2071/0683 71/0686 2071/0688 2071/0691 2071/0694 71/0697	 . {Input by voice recognition} . {Input by handheld remote control} . {Timers, rhythm indicators or pacing apparatus using electric or electronic means} . {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means} . {Maps, e.g. yardage maps or electronic maps} . {Visual indication, e.g. Indicia} . {Reservation devices}
2071/0683 71/0686 2071/0688 2071/0691 2071/0694 71/0697	 . {Input by voice recognition} . {Input by handheld remote control} . {Input by handheld remote control} . {Timers, rhythm indicators or pacing apparatus using electric or electronic means} . {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means} . {Maps, e.g. yardage maps or electronic maps} . {Visual indication, e.g. Indicia} . {Reservation devices} 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
2071/0683 71/0686 2071/0688 2071/0691 2071/0694 71/0697 71/08	 . {Input by voice recognition} . {Input by handheld remote control} . {Input by handheld remote control} . {Timers, rhythm indicators or pacing apparatus using electric or electronic means} . {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means} . {Maps, e.g. yardage maps or electronic maps} . {Visual indication, e.g. Indicia} . {Reservation devices} 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 <u>A41D 13/00</u>)
2071/0683 71/0686 2071/0688 2071/0691 2071/0694 71/0697 71/08	 . {Input by voice recognition} . {Input by handheld remote control} . {Input by handheld remote control} . {Timers, rhythm indicators or pacing apparatus using electric or electronic means} . {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means} . {Maps, e.g. yardage maps or electronic maps} . {Visual indication, e.g. Indicia} . {Reservation devices} 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 <u>A41D 13/00</u>) . {fluid-filled, e.g. air-filled}
2071/0683 71/0686 2071/0688 2071/0691 2071/0694 71/0697 71/08 71/081 2071/083	 . {Input by voice recognition} . {Input by handheld remote control} . {Input by handheld remote control} . {Timers, rhythm indicators or pacing apparatus using electric or electronic means} . {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means} . {Maps, e.g. yardage maps or electronic maps} . {Visual indication, e.g. Indicia} . {Reservation devices} 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 <u>A41D 13/00</u>) . {fluid-filled, e.g. air-filled} . {using bubble wrap}
2071/0683 71/0686 2071/0688 2071/0691 2071/0694 71/0697 71/08	 {Input by voice recognition} {Input by handheld remote control} {Timers, rhythm indicators or pacing apparatus using electric or electronic means} {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means} {Maps, e.g. yardage maps or electronic maps} {Visual indication, e.g. Indicia} {Reservation devices} 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) {fluid-filled, e.g. air-filled} using bubble wrap} {Mouth or teeth protectors (A63B 71/081 takes
2071/0683 71/0686 2071/0688 2071/0691 2071/0694 71/0697 71/08 71/081 2071/083 71/085	 {Input by voice recognition} {Input by handheld remote control} {Timers, rhythm indicators or pacing apparatus using electric or electronic means} {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means} {Maps, e.g. yardage maps or electronic maps} {Visual indication, e.g. Indicia} {Reservation devices} 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) {fluid-filled, e.g. air-filled} {using bubble wrap} {Mouth or teeth protectors (A63B 71/081 takes precedence)}
2071/0683 71/0686 2071/0688 2071/0691 2071/0694 71/0697 71/08 71/081 2071/083	 {Input by voice recognition} {Input by handheld remote control} {Timers, rhythm indicators or pacing apparatus using electric or electronic means} {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means} {Maps, e.g. yardage maps or electronic maps} {Visual indication, e.g. Indicia} {Reservation devices} 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) {fluid-filled, e.g. air-filled} using bubble wrap} {Mouth or teeth protectors (A63B 71/081 takes
2071/0683 71/0686 2071/0688 2071/0691 2071/0694 71/0697 71/08 71/081 2071/083 71/085	 {Input by voice recognition} {Input by handheld remote control} {Input by handheld remote control} {Timers, rhythm indicators or pacing apparatus using electric or electronic means} {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means} {Maps, e.g. yardage maps or electronic maps} {Visual indication, e.g. Indicia} {Reservation devices} 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) {fluid-filled, e.g. air-filled} {using bubble wrap} {Mouth or teeth protectors (A63B 71/081 takes precedence)} {Mouth inserted protectors with breathing
2071/0683 71/0686 2071/0688 2071/0691 2071/0694 71/0697 71/08 71/081 2071/083 71/085 2071/086	 {Input by voice recognition} {Input by handheld remote control} {Timers, rhythm indicators or pacing apparatus using electric or electronic means} {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means} {Maps, e.g. yardage maps or electronic maps} {Visual indication, e.g. Indicia} {Reservation devices} 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 <u>A41D 13/00</u>) {fluid-filled, e.g. air-filled} {using bubble wrap} {Mouth or teeth protectors with breathing holes} {Mouth inserted protectors with tether or strap} for the head (<u>{A63B 71/081</u> takes precedence};
2071/0683 71/0686 2071/0688 2071/0691 2071/0694 71/0697 71/08 71/081 2071/083 71/085 2071/086 2071/088	 . {Input by voice recognition} . {Input by handheld remote control} . {Input by handheld remote control} . {Input by handheld remote control} . {Timers, rhythm indicators or pacing apparatus using electric or electronic means} . {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means} . {Waps, e.g. yardage maps or electronic maps} . {Waps, e.g. yardage maps or electronic maps} . {Visual indication, e.g. Indicia} . {Visual indication, e.g. Indicia} . {Reservation devices} 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 <u>A41D 13/00</u>) . {fluid-filled, e.g. air-filled} . {using bubble wrap} . {Mouth or teeth protectors (<u>A63B 71/081</u> takes precedence)} . {Mouth inserted protectors with breathing holes} . {Mouth inserted protectors with tether or strap} . for the head (<u>{A63B 71/081</u> takes precedence }; in the form of caps or hats <u>A42B 1/08</u>; helmets
2071/0683 71/0686 2071/0688 2071/0691 2071/0694 71/0697 71/08 71/08 71/081 2071/083 71/085 2071/086 2071/088 71/10	 {Input by voice recognition} {Input by handheld remote control} {Timers, rhythm indicators or pacing apparatus using electric or electronic means} {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means} {Maps, e.g. yardage maps or electronic maps} {Visual indication, e.g. Indicia} {Reservation devices} 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 <u>A41D 13/00</u>) {fluid-filled, e.g. air-filled} {using bubble wrap} {Mouth or teeth protectors with breathing holes} {Mouth inserted protectors with tether or strap} for the head ({<u>A63B 71/081</u> takes precedence }; in the form of caps or hats <u>A42B 1/08</u>; helmets <u>A42B 3/00</u>)
2071/0683 71/0686 2071/0688 2071/0691 2071/0694 71/0697 71/08 71/081 2071/083 71/085 2071/086 2071/088 71/10 2071/105	 {Input by voice recognition} {Input by handheld remote control} {Timers, rhythm indicators or pacing apparatus using electric or electronic means} {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means} {Maps, e.g. yardage maps or electronic maps} {Visual indication, e.g. Indicia} {Reservation devices} 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) {fluid-filled, e.g. air-filled} {using bubble wrap} {Mouth or teeth protectors with breathing holes} {Mouth inserted protectors with tether or strap} for the head ({A63B 71/081 takes precedence } ; in the form of caps or hats A42B 1/08; helmets A42B 3/00) {Fencing mask}
2071/0683 71/0686 2071/0688 2071/0691 2071/0694 71/0697 71/08 71/08 71/081 2071/083 71/085 2071/086 2071/088 71/10	 {Input by voice recognition} {Input by handheld remote control} {Timers, rhythm indicators or pacing apparatus using electric or electronic means} {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means} {Maps, e.g. yardage maps or electronic maps} {Visual indication, e.g. Indicia} {Reservation devices} 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) {fluid-filled, e.g. air-filled} {using bubble wrap} {Mouth or teeth protectors with breathing holes} {Mouth inserted protectors with tether or strap} for the head ({A63B 71/081 takes precedence } ; in the form of caps or hats A42B 1/08; helmets A42B 3/00) {Fencing mask} for the body or the legs {, e.g. for the shoulders
2071/0683 71/0686 2071/0688 2071/0691 2071/0694 71/0697 71/08 71/081 2071/083 71/085 2071/086 2071/088 71/10 2071/105	 {Input by voice recognition} {Input by handheld remote control} {Timers, rhythm indicators or pacing apparatus using electric or electronic means} {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means} {Maps, e.g. yardage maps or electronic maps} {Visual indication, e.g. Indicia} {Reservation devices} 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) {fluid-filled, e.g. air-filled} {using bubble wrap} {Mouth or teeth protectors with breathing holes} {Mouth inserted protectors with tether or strap} for the head ({A63B 71/081 takes precedence } ; in the form of caps or hats A42B 1/08; helmets A42B 3/00) {Fencing mask}
2071/0683 71/0686 2071/0698 2071/0691 2071/0694 71/0697 71/08 71/083 71/085 2071/086 2071/086 2071/088 71/10 2071/105 71/12	 {Input by voice recognition} {Input by handheld remote control} {Timers, rhythm indicators or pacing apparatus using electric or electronic means} {using non-electronic means, e.g. mechanical, visual, acoustic or tactile means} {Maps, e.g. yardage maps or electronic maps} {Visual indication, e.g. Indicia} {Reservation devices} Body-protectors for players or sportsmen {, i.e. body-protecting accessories affording protective clothing or garments for sporting purposes A41D 13/00) {fluid-filled, e.g. air-filled} {using bubble wrap} {Mouth or teeth protectors with breathing holes} {Mouth inserted protectors with tether or strap} for the head ({A63B 71/081 takes precedence }; in the form of caps or hats A42B 1/08; helmets A42B 3/00) {Fencing mask} for the body or the legs {, e.g. for the shoulders (A63B 71/081 takes precedence)}

71/1216	• • • {for the genital area}
71/1225	• • { for the legs, e.g. thighs, knees, ankles, feet }
2071/1233	• • • • {for the hip}
2071/1241	• • • • { for the thigh }
2071/125	• • • • {for the knee}
2071/1258	• • • { for the shin, e.g. shin guards }
2071/1266	• • • • {for the calf}
2071/1275	• • • • {for the ankle}
2071/1283	• • • • { for the foot }
71/1291	• • • {for the neck}
71/14	• • for the hands, e.g. baseball, boxing or golfing
	gloves (archer's finger tabs F41B 5/1473)
71/141	• • • {in the form of gloves}
71/143	• • • • {Baseball or hockey gloves}
71/145	• • • • {Boxing gloves}
71/146	• • • • {Golf gloves}
71/148	{Gloves for bowling and other ball games}

2102/00 Application of clubs, bats, rackets or the like to the sporting activity {; particular sports involving the use of balls and clubs, bats, rackets, or the like}

<u>NOTE</u>

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

2102/02	• Tennis
2102/04	• Badminton
2102/06	• Squash
2102/065	• • {Racketball}
2102/08	• Paddle tennis, padel tennis or platform tennis
2102/10	• Battledore
2102/12	• Hanetsuki
2102/14	. Lacrosse
2102/16	• Table tennis
2102/18	• Baseball, rounders or similar games
2102/182	• • {Softball}
2102/184	• • {Rounders}
2102/20	• Cricket
2102/22	• {Field} hockey
2102/24	. Ice hockey
2102/26	• Hurling
2102/28	• Bandy
2102/30	• Floorball
2102/32	. Golf
2102/34	• Polo
2102/36	• Croquet
2102/38	• Gateball
2208/00	Characteristics or parameters related to the user
2200/00	or player (measuring physical characteristics of the
	user A63B 2230/00)
2208/02	• posture
2208/0204	• Standing on the feet
2208/0209	• • • • • • • • • • • • • • • • • • •
	• • • on a bingle root

2206/0209	•••	• On a single
2208/0214		Kneeling

- 2208/0219 . . . on hands and knees
- 2208/0223 . . Squatting
- 2208/0228 . . Sitting on the buttocks2208/0233 . . in 90/90 position, like on a chair

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2208/0238	• • • with stretched legs, like on a bed
2208/0242	Lying down
2208/0247	• • • with legs in a kneeled 90/90 position
2208/0252	• • • supine
2208/0257	• • • prone
2208/0261	• • • using trunk supports resisting forward
	motion of user
2208/0266	• • • on the side
2208/0271	• • Standing on the shoulders or the neck
2208/0276	• • Standing on the head
2208/028	• • Standing on the hands
2208/0285	• • Hanging
2208/029	• • • upright
2208/0295	• • on hands and feet (for push-ups <u>A63B 23/1236</u>)
2208/03	• the user being in water
2208/05	• the user being at least partly surrounded by a
2208/052	pressure different from the atmospheric pressure
2208/053	• higher pressure
2208/056	. lower pressure
2208/12	• specially adapted for children
2208/14	• specially adapted for animals
2209/00	Characteristics of used materials
2209/02	• with reinforcing fibres, e.g. carbon, polyamide
	fibres
2209/023	• Long, oriented fibres, e.g. wound filaments,
	woven fabrics, mats
2209/026	Ratio fibres-total material
2209/08	• magnetic
2209/10	• with adhesive type surfaces, i.e. hook and loop-type
	fastener
2209/14	• with form or shape memory materials
2209/18	• biodegradable
2210/00	Space saving
2210/02	incorporated in chairs
2210/04	incorporated in beds, sofas
2210/06	incorporated in cabinets
2210/10	• specially constructed to fit in the corner of a room
2210/50	• Size reducing arrangements for stowing or transport
2210/52	. Frame members linked by elastic means when
	disassembled
2210/54	. Foldable elastic frame members automatically
0010/5	resuming their expanded state when released
2210/56	• electrically folded and erected
2210/58	• slideably retracted in a housing when not in use
2213/00	Exercising combined with therapy
2213/001	• with radiation therapy
2213/002	Infrared
2213/002 2213/003	Infrared Ultraviolet
2213/003	Ultraviolet
2213/003 2213/004	Ultravioletwith electrotherapy
2213/003 2213/004 2213/005	 Ultraviolet with electrotherapy with respiratory gas delivering means, e.g. O₂ under hypoxy conditions, i.e. oxygen supply subnormal
2213/003 2213/004 2213/005 2213/006	 Ultraviolet with electrotherapy with respiratory gas delivering means, e.g. O₂ under hypoxy conditions, i.e. oxygen supply
2213/003 2213/004 2213/005 2213/006 2213/007 2213/008	 Ultraviolet with electrotherapy with respiratory gas delivering means, e.g. O₂ under hypoxy conditions, i.e. oxygen supply subnormal combined with magnetotherapy combined with ultrasound therapy
2213/003 2213/004 2213/005 2213/006 2213/007	 Ultraviolet with electrotherapy with respiratory gas delivering means, e.g. O₂ under hypoxy conditions, i.e. oxygen supply subnormal combined with magnetotherapy

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
2220/05	. Image processing for measuring physical parameters
2220/10	• Positions
2220/12	• • Absolute positions, e.g. by using GPS
2220/13	Relative positions
2220/14	• Geo-tagging, e.g. for correlating route or track location data with specific information related to that specific location
2220/16	Angular positions
2220/17	• Counting, e.g. counting periodical movements, revolutions or cycles, or including further data processing to determine distances or speed
2220/18	Inclination, slope or curvature
2220/20	Distances or displacements
2220/22	Stride length
2220/24	Angular displacement
2220/30	. Speed
2220/31	Relative speed
2220/34	• • Angular speed
2220/35	Spin
2220/36	• • Speed measurement by electric or magnetic parameters
2220/40	Acceleration
2220/44	Angular acceleration
2220/50	Force related parameters
2220/51	Force
2220/52	• • • Weight, e.g. weight distribution
2220/53	• • Force of an impact, e.g. blow or punch
2220/54	. Torque
2220/56	. Pressure
2220/58	• • Measurement of force related parameters by electric or magnetic means
2220/62	• Time or time measurement used for time reference, time stamp, master time or clock signal
2220/64	• Frequency, e.g. of vibration oscillation
2220/70	• Measuring or simulating ambient conditions, e.g. weather, terrain or surface conditions
2220/72	Temperature
2220/73	Altitude
2220/74	Atmospheric pressure
2220/75	Humidity
2220/76	Wind conditions
2220/78	Surface covering conditions, e.g. of a road surface
2220/80	Special sensors, transducers or devices therefor
2220/801	Contact switches
2220/802	• Ultra-sound sensors
2220/803	Motion sensors
2220/805	Optical or opto-electronic sensors
2220/806	Video cameras
2220/807	Photo cameras
2220/808	Microphones
2220/83	characterised by the position of the sensor
2220/833	Sensors arranged on the exercise apparatus or
	sports implement

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2220/89	• Field sensors, e.g. radar systems	2230/201	• • used as a control parameter for the apparatus
2225/00	Miscellaneous features of sport apparatus, devices	2230/202	• • glucose
2225/00	or equipment	2230/203	• • • used as a control parameter for the apparatus
2225/01	• Special aerodynamic features, e.g. airfoil shapes,	2230/205	• P-CO2, i.e. partial CO ₂ value
2223/01	wings or air passages	2230/206	• • • used as a control parameter for the apparatus
2225/02	 Testing, calibrating or measuring of equipment 	2230/207	• P-O2, i.e. partial O_2 value
2225/02	 resulting, canorating of measuring of equipment with suction cups 	2230/208	used as a control parameter for the apparatus
		2230/30	• blood pressure (<u>A63B 2230/04</u> takes precedence)
2225/055	• used for fixing	2230/305	• used as a control parameter for the apparatus
2225/08	• with writing point		(A63B 2230/045 takes precedence)
2225/09	Adjustable dimensions	2230/40	respiratory characteristics
2225/093	• • Height	2230/405	• used as a control parameter for the apparatus
2225/096	• automatically adjusted according to	2230/42	• • rate
	anthropometric data of the user	2230/425	•••• used as a control parameter for the apparatus
2225/10	. Multi-station exercising machines	2230/43	Composition of exhaled air
2225/102	• having a common resisting device	2230/431	 used as a control parameter for the apparatus
2225/105	• each station having its own resisting device, e.g.	2230/431	• • • used as a control parameter for the apparatus
	for training multiple users simultaneously		· -
2225/107	Resisting devices being of the same kind	2230/435	used as a control parameter for the apparatus
2225/11	• specially adapted to be transported on a trailer	2230/436	\dots partial O ₂ value
2225/12	• with mirrors	2230/438	used as a control parameter for the apparatus
2225/15	• with identification means that can be read by	2230/50	. temperature
	electronic means	2230/505	used as a control parameter for the apparatus
2225/20	• with means for remote communication, e.g. internet	2230/60	• muscle strain, i.e. measured on the user
	or the like	2230/605	• used as a control parameter for the apparatus
2225/30	Maintenance	2230/62	• posture
2225/305	Remote servicing	2230/625	• • used as a control parameter for the apparatus
2225/50	• Wireless data transmission, e.g. by radio	2230/65	skin conductivity
	transmitters or telemetry	2230/655	• • used as a control parameter for the apparatus
2225/52	• • modulated by measured values	2230/70	• body fat
2225/54	• Transponders, e.g. RFID	2230/705	• • used as a control parameter for the apparatus
2225/60	• Apparatus used in water	2230/75	calorie expenditure
2225/605	. Floating	2230/755	• used as a control parameter for the apparatus
2225/62	. Inflatable		
2225/64	. Heated	2243/00	Specific ball sports not provided for in
2225/66	• Cooled	2242/002	<u>A63B 2102/00</u> - <u>A63B 2102/38</u>
2225/68	• with article holders	2243/002	• Billiards
2225/682	• • for beverages	2243/0025	• Football (American football <u>A63B 2243/007</u>)
2225/685	• for electronic devices, e.g. phone, PDA, GPS	2243/0033	• Handball
	device, notebook	2243/0037	• Basketball
2225/687	• for others, e.g. keys, wallets, books	2243/0054	• Bowling, i.e. ten-pin bowling
2225/70	• Coin-operated	2243/0058	• Bowls, crown green bowling
2225/72	• Means preventing unauthorised use, e.g. by	2243/0062	. Petanque
2223772	lowering a tennis net	2243/0066	• Rugby; American football
2225/74	• with powered illuminating means, e.g. lights	2243/007	American football
2225/76	• with means enabling use in the dark, other than	2243/0095	. Volleyball
2223,10	powered illuminating means	2244/00	Sports without balls
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2230/00	Measuring physiological parameters of the user	2244/03	Skeet, clay pigeon shooting
2230/01	• User's weight	2244/04	. Bow shooting
2230/015	• • used as a control parameter for the apparatus	2244/08	Jumping, vaulting
2230/04	• heartbeat characteristics, e.g. ECG, blood pressure	2244/081	• • High jumping
	modulations	2244/082	Long jumping
2230/045	• • used as a control parameter for the apparatus	2244/084	Triple jump
2230/06	• • heartbeat rate only	2244/085	• • Pole vaulting
2230/062	• • • used as a control parameter for the apparatus	2244/087	• • without take off run
2230/065	within a certain range	2244/088	• • hurdling
2230/067	used as a control parameter for the apparatus	2244/09	• Weight-lifting
2230/08	• other bio-electrical signals	2244/10	Combat sports
2230/085	• used as a control parameter for the apparatus	2244/102	Boxing
2230/10	electroencephalographic signals	2244/104	Judo
2230/105	••••••••••••••••••••••••••••••••••••••	2244/106	Karate
	· · · · · · · · · · · · · · · · · · ·	2244/100	
2230/20	 blood composition characteristics 	2244/108	• • Wrestling

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