CPC COOPERATIVE PATENT CLASSIFICATION

A HUMAN NECESSITIES

HEALTH; AMUSEMENT

A63 SPORTS; GAMES; AMUSEMENTS

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

exercising, massage A61H)

WARNINGS

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

A63B 7/06	covered by	A63G 1/00
A63B 22/08	covered by	A63B 22/0605
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>

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.

	exercising apparatus (training apparatus for special 69/00; apparatus for passive exercising, massage A61H)	6/00	Mats or the like for absorbing shocks for jumping, gymnastics or the like
1/00 1/005	Horizontal bars	6/02 6/025	 for landing, e.g. for pole vaulting {Sand landing pits, e.g. for long jumping}
1/003	{Safety devices for securing the rods}Cleaning the rods	7/00	Freely-suspended gymnastic apparatus
3/00	Parallel bars or similar apparatus	7/02 7/04	 Swinging rings; Trapezes Climbing-ropes
4/00	Balance beams	7/045	• • {Using endless ropes}
5/00	Apparatus for jumping (mats for jumping A63B 6/00; for racing or riding sports, e.g. hurdles A63K)	7/08 7/085	 Apparatus for rope-dancing {Balancing on a band tensioned between two anchor points, e.g. Slackline type}
5/02	High-jumping posts	9/00	Climbing poles, frames, or stages {(climbing walls
5/04	Ropes {or similar devices} therefor		for mountaineering training A63B 69/0048; endless
5/06	• Vaulting poles {; Take-off boxes therefor}		loop ladders <u>A63B 22/04</u>)}
5/08	• Spring-boards (of trampoline type A63B 5/11 {; in	2009/002	• {Flat climbing nets}
	the form of spring mats $\underline{A63B 6/00}$)	2009/004	• {Three-dimensional rope or cable networks}
2005/085	• • {for launching, e.g. catapulting}	2009/006	• {Playground structures}
5/10	for aquatic sports	2009/008	• • {with water spraying means}
5/11 5/12	TrampolinesBolster vaulting apparatus, e.g. horses, bucks, tables	15/00	Clubs for gymnastics or the like {, e.g. for swinging exercises}
5/16	• Training devices for jumping; Devices for balloon-jumping; Jumping aids {(A63B 25/02, A63B 25/10	15/005	• {with a weight movable along the longitudinal axis of the club due to centrifugal forces}
2005/163	take precedence)} • • {Free-fall jumping on elastic cords, e.g. Bungee	15/02	• with illuminating devices
5/166	jumping}. {Devices for balloon-jumping}	17/00	Exercising apparatus combining several parts such as ladders, rods, beams, slides
5/20	• Skipping-ropes {or similar devices rotating in a	17/02	 rigidly combined
	vertical plane}	17/04	• separable
5/205	• • {Powered skipping rope devices}	10/00	•
5/22	• Foot obstacles for skipping {, e.g. horizontally-rotating obstacles}	19/00	Hoop exercising apparatus {(A63B 21/0608 takes precedence)}

19/02	• Freely-movable rolling hoops, e.g. gyrowheels	21/00196 • {using pulsed counterforce, e.g. vibrating resistant	tance
	{or spheres or cylinders, carrying the user inside (resisting devices overcoming gyroscopic forces	means (A61H 1/005 takes precedence)} 21/002 . isometric or isokinetic, i.e. substantial force	
	of rotating bodies <u>A63B 21/22</u> ; standing on it for equilibrium exercises <u>A63B 26/003</u>)}	variation without substantial muscle motion {or wherein the speed of the motion is independent or	
19/04	• movably supported on a framework {or spheres or	the force applied by the user}	. 01
	cylinders carrying the user inside (standing on it for equilibrium exercises A63B 26/003)}	21/0023 {for isometric exercising, i.e. substantial force variation without substantial muscle motion}	
21/00	Exercising apparatus for developing or	21/005 . using electromagnetic or electric force-resisters	
21/00	strengthening the muscles or joints of the body by	21/0051 • • {using eddy currents induced in moved elemer e.g. by permanent magnets}	nents,
	working against a counterforce, with or without measuring devices (electric or electronic controls	21/0052 • • • {induced by electromagnets (<u>A63B 21/0056</u>	56
	therefor A63B 24/00)	takes precedence)}	
	NOTE	21/0053 {using alternators or dynamos} 21/0054 {for charging a battery}	
	In this subclass, the following terms or expressions	21/0054 • • • {for charging a battery} 21/0055 • • • {the produced electric power used as a source	urco
	are used with the meaning indicated:	for other equipment, e.g. for TVs}	uice
	"resistance" and "resistance force" are often	21/0056 • {using electromagnetically-controlled friction,	n.
	used in the art as synonyms for "counterforce";	e.g. magnetic particle brakes}	,
	 "interface with the user" covers the part of the 	21/0057 • • {using electromagnetic clutches}	
	apparatus, on which the user directly applies his	21/0058 • • {using motors}	
	force	21/0059 {using a frequency controlled AC motor}	
21/0004	• {Exercising devices moving as a whole during	21/008 . using hydraulic or pneumatic force-resisters	
	exercise (bar bells or dumb bells A63B 21/072; on	21/0083 • • { of the piston-cylinder type (using pneumatic	ic
	wheels <u>A63B 22/20</u>)}	piston-cylinder type force resistors	
21/00043	• • {Exercising devices consisting of a pair of	A63B 21/0087)}	1 /00
	user interfaces connected by flexible elements,	21/0084 {by moving the surrounding water ($\underline{A63B 31/0}$	<u>1/00</u> ,
	e.g. two handles connected by elastic bands (skipping ropes A63B 5/20; resilient elements	A63B 35/00 take precedence)} 21/00845 {using electrorheological or	
	(skipping topes <u>Ao3B 3/20</u> , resment elements A63B 21/02)}	magnetorheological fluids}	
21/00047	• {Exercising devices not moving during use (benches	21/0085 • {using pneumatic force-resisters}	
21,000.7	A63B 21/4029; isometric exercising devices	21/0087 {of the piston-cylinder type (using hydraulic	ılic
	A63B 21/0023; step exercisers A63B 23/0458; walk	piston-cylinder type force resistors	
	exercisers <u>A63B 23/0464</u>)}	<u>A63B 21/0083</u>)}	
21/0005	• • {specially adapted for head stands}	21/0088 {by moving the surrounding air}	
21/00054	• • {specially adapted for shoulder stands}	21/0089 {Suction cups}	
21/00058	• {Mechanical means for varying the resistance	21/012 • using frictional force-resisters	
21/00061	(A63B 21/06 takes precedence)} • • {Replaceable resistance units of different	{(electromagnetically-controlled brakes A63B 21/0056)}	
21/00001	strengths, e.g. for swapping}	21/0125 • { with surfaces rolling against each other witho	hout
21/00065	 • {by increasing or reducing the number of 	substantial slip}	nout
	resistance units}	21/015 including rotating or oscillating elements	
21/00069	• • {Setting or adjusting the resistance level;	{rubbing against fixed elements}	
	Compensating for a preload prior to use, e.g.	21/018 including a rope {or other flexible element}	
	changing length of resistance or adjusting a valve}	moving relative to the surface of elements	
21/00072	• • • {by changing the length of a lever}	21/02 . using resilient force-resisters	
	• • {on the fly, i.e. varying the resistance during	 21/021 • (whereby the resistance changes abruptly during the exercising movement, e.g. by using toggles 	
21/00070	exercise}	21/022 • • {with springs acting at different parts of the	icsj
21/00178	• {for active exercising, the apparatus being also	stroke}	
	usable for passive exercising}	21/023 • • {Wound springs}	
21/00181	• {comprising additional means assisting the user to	21/025 {Spiral springs with turns lying substantially	ılly in
	overcome part of the resisting force, i.e. assisted-	plane surfaces}	
21/00105	active exercising}	21/026 {Bars; Tubes; Leaf springs (<u>A63B 21/023</u> take	kes
21/00185	• {using resistance provided by the user, e.g.	precedence)}	
	exercising one body part against a resistance provided by another body part (A63B 21/068 takes	21/027 {Apparatus forced to oscillate at its resonant	ant
	precedence; isometric exercise A63B 21/0023)}	frequency {	ion
21/00189	• {using resistance provided by plastic deformable	 21/028 • • {made of material having high internal friction e.g. rubber, steel wool, intended to be compres 	
	materials, e.g. lead bars or kneadable masses	(resistance provided by plastic deformable	coocu
	(resilient force-resistors made of material having	materials $\underline{A63B} \ \underline{21/00189}$)	
	high internal friction A63B 21/028)}	21/04 attached to static foundation {, e.g. a user}	
21/00192	• {using resistance provided by magnetic means	21/0407 {Anchored at two end points, e.g. installed	d
	$(\underline{A63B\ 21/005}\ takes\ precedence)$	within an apparatus}	

21/0414	• • • { with both ends stationary during the actual	21/0728 • • • { with means for fixing weights on bars, i.e.
	exercise, i.e. moving only at intermediate	fixing olympic discs or bumper plates on bar-
	locations}	bells or dumb-bells}
21/0421	• • • { the ends moving relatively by a pivoting	21/075 • • • with variable weights {, e.g. weight systems
	arrangement}	with weight selecting means for bar-bells or
21/0428	• • • { the ends moving relatively by linear	dumb-bells}
	reciprocation}	21/078 Devices for bench press exercises {, e.g. supports,
21/0435	{One or both ends being anchored to a	guiding means}
	rotating element}	21/0783 {Safety features for bar-bells, e.g. drop limiting
21/0442	{Anchored at one end only, the other end being	means}
	manipulated by the user}	21/08 anchored at one end
21/045	• • having torsion {or bending or flexion} element	21/15 • {Arrangements for force transmissions}
21/0455	• • • {having torsion element around its longitudinal	21/151 • • {Using flexible elements for reciprocating
	axis}	movements, e.g. ropes or chains}
21/05	. Linearly-compressed elements {(A63B 21/028	21/152 {Bowden-type cables}
	takes precedence)}	21/153 {wound-up and unwound during exercise, e.g.
21/055	• extension element type	from a reel}
21/0552	{Elastic ropes or bands}	21/154 {using special pulley-assemblies}
21/0555	{Details of the rope or band, e.g. shape or	21/155 {Cam-shaped pulleys or other non-uniform
21/0333	colour coding}	pulleys, e.g. conical}
21/0557	<u> </u>	21/156 • • • • {the position of the pulleys being variable,
	{Details of attachments, e.g. clips or clamps}	e.g. for different exercises}
21/06	. User-manipulated weights	,
21/0601	• • {Special physical structures of used masses}	21/157 • • {Ratchet-wheel links; Overrunning clutches; One-
21/0602	• • {Fluids, e.g. water}	way clutches}
21/0603	• • • {Fluid-like particles, e.g. gun shot or sand}	21/158 • • {Hydraulic transmissions (hydraulic force
21/0604	• • • {Solid masses, e.g. concrete (<u>A63B 21/0603</u>	resistors <u>A63B 21/008</u>)}
	takes precedence)}	21/159 {Using levers for transmitting forces}
21/0605	• • • { with boxes, baskets or the like for stacking	21/16 • Supports for anchoring force-resisters
	loose weights therein}	21/1609 • • { for anchoring on a chair (chairs with exercising
21/0606	• • • {Buoyant volumes to be submerged}	means <u>A47C 9/002</u>)}
21/0607	• • • {Plastic masses, e.g. elastomers; Masses	21/1618 • • {on a door or a door frame}
	provided with plastic coverings}	21/1627 {for anchoring on or between the vertical posts
21/0608	• • {Eccentric weights put into orbital motion by	of a door frame}
	nutating movement of the user}	$21/1636$ { for anchoring on the horizontal part of a door
21/0609	• • {consisting of loosely interconnected elements for	frame}
	progressively changing weight, e.g. heavy chains}	21/1645 {for anchoring on a door}
21/0615	 • {pivoting about a fixed horizontal fulcrum} 	21/1654 • • • { for anchoring between a door and the floor}
21/0616	• • • { with an adjustable moment (A63B 21/0617	21/1663 • • • { for anchoring between a door and the door
	takes precedence)}	frame}
21/0617	• • • { with a changing moment as a function of the	21/1672 • • {for anchoring on beds or mattresses}
	pivot angle}	21/1681 • • {for anchoring between horizontal surfaces, e.g.
21/0618	• • {moving in a horizontal plane without substantial	the floor and the ceiling}
	friction, i.e. using inertial forces}	21/169 • • {for anchoring on or against a wall}
21/062	including guide for vertical {or non-vertical	21/22 • Resisting devices with rotary bodies
	weights or array of weights (to move against	$\{(\underline{A63B} \ \underline{21/0608} \ \text{takes precedence})\}$
	gravity forces}	21/222 • • {by overcoming gyroscopic forces, e.g. by
21/0622	• • • { with adjustable inclination angle of the	turning the spin axis}
	guiding means}	21/225 • • {with flywheels}
21/0624	• • • {by moving the guiding means}	21/227 {changing the rotational direction alternately}
21/0626	• • • {with substantially vertical guiding means}	21/28 • Devices for two persons operating in opposition {or
21/0628	{for vertical array of weights}	in cooperation}
21/063	{Weight selecting means}	21/285 . · {in cooperation}
21/0632	• • • • { the weights being lifted by rigid means }	21/40 • {Interfaces with the user related to strength training;
21/065	. worn on user's body	Details thereof}
21/068	using user's body weight	21/4001 • • {Arrangements for attaching the exercising
21/008	 using user's body weight Dumb-bells, bar-bells or the like {, e.g. weight 	apparatus to the user's body, e.g. belts, shoes or
21/0/2	discs having an integral peripheral handle	gloves specially adapted therefor (weights worn
21/0722	• • • {transformable, e.g. from dumb-bell to bar-	on the user's body A63B 21/065; exoskeletons
21/0722	bell	in general <u>B25J 9/0006</u> , for aiding patients or
21/0724	• • {Bar-bells; Hand bars}	disabled persons to walk about A61H 3/00)}
		21/4003 {to the head; to the neck}
21/0726	 . • {Dumb bells, i.e. with a central bar to be held by a single hand, and with weights at the ends} 	21/4005 • • • {to the shoulder}
	by a single hand, and with weights at the ends}	21/4007 {to the chest region, e.g. to the back chest}

21/4009	• • • {to the waist}	22/0015	• {with an adjustable movement path of the support
21/4011	• • • {to the lower limbs (means for physically		elements}
	limiting movements of body parts A63B 69/0057)}	22/0017	• • {the adjustment being controlled by movement of the user}
21/4013	{to the ankle}	2022/002	• • {electronically, e.g. by using a program}
21/4015	{to the foot}	22/0023	• • {the inclination of the main axis of the movement
21/4017	• • • {to the upper limbs}		path being adjustable, e.g. the inclination of an
21/4019	{to the hand}		endless band}
21/4021	• • • {to the wrist}	22/0025	• {Particular aspects relating to the orientation of
21/4023	• • {the user operating the resistance directly,		movement paths of the limbs relative to the body;
21/4023	without additional interface (A63B 21/072 takes		Relative relationship between the movements of the limbs}
	precedence)}	2022/0028	
21/4025	• • • {Resistance devices worn on the user's body (A63B 21/065 takes precedence)}	2022/0028	body-symmetrical-plane, e.g. support elements
21/4027	• • {Specific exercise interfaces (chairs or stools with exercising means A47C 9/002)}		moving at an angle to the body-symmetrical-plane}
21/4029	• • • {Benches specifically adapted for exercising (for bench press exercises A63B 21/078)}	2022/003	• • • {the movement path being perpendicular to the body-symmetrical-plane}
21/4031	• • • { with parts of the bench moving against a	2022/0033	• {Lower limbs performing together the same movement, e.g. on a single support element}
21/4022	resistance during exercise}	2022/0035	• • {Upper limbs performing together the same
21/4033	• • {Handles, pedals, bars or platforms}		movement, e.g. on a single support element}
21/4034	• • • {for operation by feet}	2022/0038	• • {One foot moving independently from the other,
21/4035	{for operation by hand}		i.e. there is no link between the movements of the
21/4037	• • • {Exercise mats for personal use, with or		feet}
	without hand-grips or foot-grips, e.g. for Yoga	2022/0041	• • {one hand moving independently from the other
	or supine floor exercises (mats for absorbing shocks A63B 6/00)}		hand, i.e. there is no link between the movements of the hands}
21/4039	• • • {contoured to fit to specific body parts, e.g.	2022/0043	• • {the movements of the limbs of one body half
	back, knee or neck support (arrangements for		being synchronised, e.g. the left arm moving in
	attaching exercising apparatus to the user's		the same direction as the left leg}
	body <u>A63B 21/4001</u> ; handles, pedals, bars or	22/0046	• {Details of the support elements or their connection
21/4041	platforms <u>A63B 21/4033</u>)}		to the exercising apparatus, e.g. adjustment of size
21/4041	• • {characterised by the movements of the interface}		
21/10/12	(15)		or orientation (attachments of resisters or weights to
21/4043	• • • {Free movement, i.e. the only restriction		or orientation (attachments of resisters or weights to the body of the user A63B 21/4001; using rollers,
21/4043	coming from the resistance (A63B 21/00043,		
	coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)}		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>)}
21/4043 21/4045	coming from the resistance (A63B 21/00043, A63B 21/072 take precedence)} • • • • Reciprocating movement along, in or on a	22/0048	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>)} • {with cantilevered support elements pivoting about
	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	22/0048	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>)}
	 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 	22/0048 2022/0051	the body of the user A63B 21/4001; using rollers, wheels, castors or gliding means to be moved over the floor or guide tracks A63B 22/20)} • {with cantilevered support elements pivoting about an axis (A63B 22/0076 takes precedence)} • • {the support elements being supported at a
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)}		 the body of the user A63B 21/4001; using rollers, wheels, castors or gliding means to be moved over the floor or guide tracks A63B 22/20)} {with cantilevered support elements pivoting about an axis (A63B 22/0076 takes precedence)} {the support elements being supported at a substantial distance below their axis, e.g. the axis
	 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 		the body of the user A63B 21/4001; using rollers, wheels, castors or gliding means to be moved over the floor or guide tracks A63B 22/20)} • {with cantilevered support elements pivoting about an axis (A63B 22/0076 takes precedence)} • • {the support elements being supported at a substantial distance below their axis, e.g. the axis for the foot support elements are arranged at hip
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}	2022/0051	the body of the user A63B 21/4001; using rollers, wheels, castors or gliding means to be moved over the floor or guide tracks A63B 22/20)} • {with cantilevered support elements pivoting about an axis (A63B 22/0076 takes precedence)} • • {the support elements being supported at a substantial distance below their axis, e.g. the axis for the foot support elements are arranged at hip height}
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}		the body of the user A63B 21/4001; using rollers, wheels, castors or gliding means to be moved over the floor or guide tracks A63B 22/20)} • {with cantilevered support elements pivoting about an axis (A63B 22/0076 takes precedence)} • • {the support elements being supported at a substantial distance below their axis, e.g. the axis for the foot support elements are arranged at hip height} • • {each support element being cantilevered by a
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 A63B 21/0615)} • • • {Rotational movement} Exercising apparatus specially adapted for	2022/0051	the body of the user A63B 21/4001; using rollers, wheels, castors or gliding means to be moved over the floor or guide tracks A63B 22/20)} • {with cantilevered support elements pivoting about an axis (A63B 22/0076 takes precedence)} • • {the support elements being supported at a substantial distance below their axis, e.g. the axis for the foot support elements are arranged at hip height} • • {each support element being cantilevered by a parallelogram system}
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	2022/0051	 the body of the user A63B 21/4001; using rollers, wheels, castors or gliding means to be moved over the floor or guide tracks A63B 22/20)} {with cantilevered support elements pivoting about an axis (A63B 22/0076 takes precedence)} {the support elements being supported at a substantial distance below their axis, e.g. the axis for the foot support elements are arranged at hip height} {each support element being cantilevered by a parallelogram system} {the pivoting movement being in a vertical plane,
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	2022/0051	 the body of the user A63B 21/4001; using rollers, wheels, castors or gliding means to be moved over the floor or guide tracks A63B 22/20)} {with cantilevered support elements pivoting about an axis (A63B 22/0076 takes precedence)} {the support elements being supported at a substantial distance below their axis, e.g. the axis for the foot support elements are arranged at hip height} {each support element being cantilevered by a parallelogram system} {the pivoting movement being in a vertical plane, e.g. steppers with a horizontal axis (platforms
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	2022/0051	 the body of the user A63B 21/4001; using rollers, wheels, castors or gliding means to be moved over the floor or guide tracks A63B 22/20)} {with cantilevered support elements pivoting about an axis (A63B 22/0076 takes precedence)} {the support elements being supported at a substantial distance below their axis, e.g. the axis for the foot support elements are arranged at hip height} {each support element being cantilevered by a parallelogram system} {the pivoting movement being in a vertical plane, e.g. steppers with a horizontal axis (platforms for rocking motion about a horizontal axis
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		22/044	
2022/0071	• {the axis being located behind the user, e.g.	22/0664	• • {performing an elliptic movement}
2022/0074	for skate training}	2022/067	• • • {with crank and handles being on opposite
2022/0074	• {the axis being located in front of the user, e.g. for steppers with twist movement}		sides of the exercising apparatus with respect to the frontal body-plane of the user, e.g. the
22/0076	• {Rowing machines for conditioning the cardio-		crank is behind and handles are in front of the
22/00/0	vascular system (seats moving during exercise		user}
	A63B 22/0087; training appliances for rowing or	2022/0676	• • • { with crank and handles being on the same side
	sculling on boats A63B 69/06)}		of the exercising apparatus with respect to the
2022/0079	• • {with a pulling cable}		frontal body-plane of the user, e.g. crank and
2022/0082	• • {with pivoting handlebars}		handles are in front of the user}
2022/0084	• • • {pivoting about a horizontal axis}	2022/0682	• • • { with support elements being cantilevered,
22/0087	• {with a seat or torso support moving during the		i.e. the elements being supported only on one
	exercise, e.g. reformers (A63B 22/0076 takes		side without bearing on tracks on the floor
	precedence)}	2022/0799	below the user}
22/0089	• • {a counterforce being provided to the support	2022/0688	• • • { with cranks being substantially within
	(force-resisting aspects A63B 21/00)}		the horizontal moving range of the support elements, e.g. by using planetary gearings}
2022/0092	• {for training agility or co-ordination of movements}	22/0694	 • {without integral seat, e.g. portable mini
2022/0094	• {for active rehabilitation, e.g. slow motion devices}	22/00/4	ergometers being placed in front of a chair, on a
2022/0097	• {for avoiding blood stagnations, e.g. Deep Vein		table or on a bed}
22/02	Thrombosis [DVT]}	22/14	• Platforms for reciprocating rotating motion about a
22/02	• with movable endless bands {, e.g. treadmills		vertical axis {, e.g. axis through the middle of the
	(other training appliances for running on the spot A63B 69/0028)}		platform}
22/0207	• {having shock absorbing means}	22/16	 Platforms for rocking motion about a horizontal
22/0207	• • {between the belt supporting deck and the		axis {, e.g. axis through the middle of the platform};
22/0214	frame}		Balancing drums; Balancing boards or the like
22/0221	• • • {on the frame supporting the rollers}		{(exercising apparatus with cantilevered support
22/0228	• • {with variable resilience}		elements pivoting about an axis A63B 22/0056;
22/0235	• • {driven by a motor}		other exercising apparatus for improving balance A63B 26/003)}
22/0242	• • { with speed variation }	22/18	• with elements, {i.e. platforms,} having a circulating,
22/025	• • • {electrically, e.g. D.C. motors with variable	22/10	{nutating} or rotating movement, generated by
	speed control}		oscillating movement of the user, {e.g. platforms
22/0257	{Mechanical systems therefor}		wobbling on a centrally arranged spherical
22/0264	{hydraulically}		support}(hoop exercising apparatus A63B 19/00;
2022/0271	• • {omnidirectional}		{eccentric weights put into orbital motion by
2022/0278	• • {with reversible direction of the running surface}		nutating movement of the user A63B 21/0608;
22/0285	• • {Physical characteristics of the belt, e.g. material,		pots rotating or rocking by moving the whole body A63G 23/00})
	surface, indicia}	2022/185	(specially adapted for using with a single foot or
22/0292	• • {separate for each leg, e.g. dual deck}	2022/103	hand
22/04	• with movable {multiple} steps {, i.e. more than one	22/20	 using rollers, wheels, castors or the like, {e.g.
	step per limb, e.g. steps mounted on endless loops,	,_0	gliding means, to be moved over the floor or other
	endless ladders (steppers with cantilevered support elements pivoting about an axis A63B 22/0048)}		surface, {e.g. guide tracks,} during exercising
22/06	with {support elements performing a}	22/201	• • {for moving a support element in reciprocating
22/00	rotating cycling movement, {i.e. a closed		translation, i.e. for sliding back and forth on a
	path movement}(support stands for bicycles		guide track}
	A63B 69/16; unicycles B62K 1/00)	22/203	• • • {in a horizontal plane}
22/0605	• • {performing a circular movement, e.g.	22/205	• • • {in a substantially vertical plane, e.g. for
	ergometers}		exercising against gravity (exercising for
2022/0611	• • • {Particular details or arrangement of cranks}		developing or strengthening the muscles or joints of the body by working against a user's
2022/0617	• • • { with separate crank axis for each limb, e.g.		body weight A63B 21/068; with adjustable
	being separately adjustable or non parallel}		inclination A63B 22/0023)}
2022/0623	{Cranks of adjustable length}	2022/206	{on a curved path}
2022/0629	• • • {each pedal being supported by two or more	22/208	• • • {On a track which is itself moving during
2022/0625	(specially adapted for a particular use)		exercise}
2022/0635	{specially adapted for a particular use}	23/00	Evergicing enpayatus specially adopted for
2022/0641	• • • {enabling a lateral movement of the exercising apparatus, e.g. for simulating	23/00	Exercising apparatus specially adapted for particular parts of the body (A63B 22/00 takes
	movement on a bicycle}		precedence; force-resisting aspects A63B 21/00;
2022/0647			electric or electronic controls therefor A63B 24/00;
	without a seat or support for the trunk}		devices for exercising or strengthening of fingers, or
2022/0652	• • • {for cycling in a recumbent position}		arms in teaching operation of keyboards <u>G09B 15/06</u>)
2022/0658	• • • {for cycling with a group of people, e.g.	2023/003	• {by torsion of the body part around its longitudinal
	spinning classes}		axis}

2023/006	• {for stretching exercises}	2023/0441 {cantilevered about two horizontal axes,
23/02	• for the abdomen, the spinal column or the torso	e.g. parallelogram systems}
	{muscles related to shoulders (e.g. chest muscles)}	2023/0447 {the axis being in the body-symmetrical-plane}
23/0205 23/0211	. {Abdomen} {moving torso with immobilized lower limbs}	2023/0452 {the foot support being substantially below
23/0211	• • {moving lower limbs with immobilized torso}	said axes}
23/0222	{moving towor limbs with limbs}	23/0458 {Step exercisers without moving parts (with
23/0227	• • {moving torso or lower limbs laterally, i.e.	movable steps <u>A63B 22/04</u>)}
	substantially in the frontal plane}	23/0464 {Walk exercisers without moving parts (with
23/0233	• • {Muscles of the back, e.g. by an extension of the	movable endless bands <u>A63B 22/02</u>)}
22/0220	body against a resistance, reverse crunch}	23/047 {Walking and pulling or pushing a load (for exercising the player ability for rugby or
23/0238	• • {Spinal column (for the neck A63B 23/025)}	American football A63B 69/34)}
23/0244	 {with signalling or indicating means, e.g. of incorrect posture, for deep-breathing exercises} 	23/0476 {by rotating cycling movement (arrangements
23/025	• for the head or the neck	on or for real bicycles A63B 69/16)}
23/03	• • for face muscles	WARNING
23/032	• • • {for insertion in the mouth}	Group A63B 23/0476 is no longer used for
23/035	• for limbs, i.e. upper or lower limbs, e.g.	classification. Documents are in the process
	simultaneously	of being reorganised to group A63B 22/06
23/03508	• • {For a single arm or leg, (<u>A63B 21/0726</u> takes	
22/2251	precedence)}	23/0482 {primarily by articulating the hip joints (A63B 23/0211, A63B 23/0405, A63B 23/0476
23/03516	 {For both arms together or both legs together; Aspects related to the co-ordination between right 	(A03B 23/0211, A03B 23/0403, A03B 23/04/0 take precedence)}
	and left side limbs of a user}	23/0488 {by spreading the legs}
23/03525	• • {Supports for both feet or both hands	23/0494 {primarily by articulating the knee joints
	performing simultaneously the same	(<u>A63B 23/0405</u> , <u>A63B 23/0476</u> take
	movement, e.g. single pedal or single handle	precedence)}
	(A63B 21/0724 takes precedence)	23/08 for ankle joints
23/03533	• • • {With separate means driven by each limb, i.e.	23/085 {by rotational movement of the joint in a
22/02541	performing different movements}	plane substantially parallel to the body- symmetrical-plane}
23/03541	• • • {Moving independently from each other (A63B 22/00 takes precedence)}	23/10 for feet or toes
23/0355	• • {A single apparatus used for either upper or lower	23/12 for upper limbs {or related muscles, e.g. chest,
	limbs, i.e. with a set of support elements driven	upper back or shoulder muscles (bench press
	either by the upper or the lower limb or limbs}	exercises A63B 21/078; for teaching music
23/03558	• • • {Compound apparatus having multiple stations	G09B 15/06)}
22/02566	allowing an user to exercise different limbs}	23/1209 • • • {Involving a bending of elbow and shoulder joints simultaneously}
23/03566	• • • { the multiple stations having a common resistance device }	23/1218 {Chinning, pull-up, i.e. concentric
23/03575		movement}
	limbs simultaneously}	23/1227 {Dips, i.e. push-ups in a vertical position, i.e.
23/03583	• • • {Upper and lower limbs acting simultaneously	eccentric movement, e.g. between parallel
	on the same operating rigid member}	bars}
23/03591	• • • {Upper and lower limb moving in phase, i.e.	23/1236 {Push-ups in horizontal position, i.e.
	right foot moving in the same direction as the right hand}	eccentric movement} 23/1245 {Primarily by articulating the shoulder joint
23/04	• • for lower limbs {(training appliances for special	(A63B 23/129 takes precedence)
23/01	sports A63B 69/00; for the purpose of producing	23/1254 {Rotation about an axis parallel to the
	mechanical power <u>F03G 5/00</u>)}	longitudinal axis of the body, e.g. butterfly-
23/0405	• • { involving a bending of the knee and hip	type exercises}
	joints simultaneously (<u>A63B 23/0476</u> takes	23/1263 {Rotation about an axis passing through both
2022/0411	precedence)}	shoulders, e.g. cross-country skiing-type arm movements}
2023/0411 23/0417	 {Squatting exercises} {with guided foot supports moving	23/1272 {Rotation around an axis perpendicular to the
23/0417	parallel to the body-symmetrical-plane by	frontal body-plane of the user, i.e. moving
	translation}	the arms in the plane of the body, to and
23/0423	• • • { with guided foot supports moving parallel	from the sides of the body}
	to the body-symmetrical-plane, one end	23/1281 {primarily by articulating the elbow joint}
	executing a complete circular movement,	23/129 • • • { for arm wrestling }
	the other end translating almost linearly, e.g. giving an elliptical movement to the foot}	23/14 for wrist joints
23/0429	• • • { with guided foot supports moving parallel	23/16 for hands or fingers {(for teaching typing G09B 13/00)}
· - /	to the body-symmetrical-plane by being	23/18 • for improving respiratory function
	cantilevered about a horizontal axis}	23/185 • {Rhythm indicators}
		• • •

Gymnastic exercising apparatus

A63B

23/20	 for vaginal muscles {or other sphincter-type muscles} 	24/0087	• {Electric or electronic controls for exercising apparatus of groups A63B 21/00 - A63B 23/00, e.g.
24/00	Electric or electronic controls for exercising	2024/009	controlling load} . {the load of the exercise apparatus being
	apparatus of preceding groups; {Controlling or monitoring of exercises, sportive games, training	2024/009	controlled in synchronism with visualising systems, e.g. hill slope}
24/0002	or athletic performances}	2024/0093	{the load of the exercise apparatus being
24/0003	• {Analysing the course of a movement or motion sequences during an exercise or trainings sequence,		controlled by performance parameters, e.g. distance or speed}
	e.g. swing for golf or tennis}	2024/0096	using performance related parameters for
24/0006	• • {Computerised comparison for qualitative	2021/0090	controlling electronic or video games or avatars}
	assessment of motion sequences or the course of a movement}	25/00	Stilts or the like
2024/0009	{Computerised real time comparison with	25/00 25/02	Elastic stilts {(devices for balloon jumping
2021/0009	previous movements or motion sequences of		<u>A63B 5/166</u>)}
2024/0012	the user} {Comparing movements or motion sequences	25/04	with wheels
2024/0012	with a registered reference}	25/06 25/08	 Shoes formed with stilts to elongate the step Hopping-sticks, e.g. pogo sticks {; Hopping
2024/0015	• • • • {Comparing movements or motion sequences with computerised simulations	23/08	apparatus with a single resilient support (devices for
	of movements or motion sequences, e.g. for	25/10	balloon jumping A63B 5/166)} • Elastic bouncing shoes fastened to the foot
	generating an ideal template as reference to		
2024/0019	be achieved by the user}	26/00	Exercising apparatus not covered by groups A63B 1/00 - A63B 25/00
24/0018	{using non electronic means} . {Tracking a path or terminating locations}	26/003	• {for improving balance or equilibrium (balance
2024/0025	Tracking a path of terminating locations; Tracking the path or location of one or more		beams A63B 4/00; apparatus for rope dancing
202 17 0020	users, e.g. players of a game}		A63B 7/08; balancing drums, balancing boards or
2024/0028	• • {Tracking the path of an object, e.g. a ball inside a soccer pitch}	2026/006	the like <u>A63B 22/16</u>)} • • {with feet supports below their pivotal point}
2024/0031	{at the starting point}	Climbin a. M	
	• • {during flight}	Chinding; M	ountaineering
	• • {on a target surface or at impact on the ground}	27/00	Apparatus for climbing poles, trees, or the like
	• {Multiple detectors or sensors each defining a different zone}		({ropes <u>A63B 29/02;</u> } safety belts for climbers <u>A62B 35/00</u>)
2024/0043	• • • {Systems for locating the point of impact on a specific surface}	27/02	 Climbing devices for round poles {or trees} attachable to the feet
2024/0046	• • • {Mechanical means for locating the point of impact or entry}	27/04	 Climbing devices for profile poles attachable to the feet
2024/005	{Keeping track of the point of impact or	29/00	Apparatus for mountaineering (helmets A42B 3/00;
2024/0052	entry}	25700	non-skid devices or attachments for footwear,
2024/0053 2024/0056	. {for locating an object, e.g. a lost ball}. {for statistical or strategic analysis}		e.g. crampons, A43C 15/00; breathing masks or
24/0059	• {Exercising apparatus with reward systems}		helmets for use at high altitudes A62B 18/00; picks
24/0062	• {Monitoring athletic performances, e.g. for	29/02	B25D 7/00) Mountain guy-ropes or accessories, e.g. avalanche
	determining the work of a user on an exercise	23/02	ropes; Means for indicating the location of
	apparatus, the completed jogging or cycling		accidentally buried, e.g. snow-buried, persons
2024/0065	distance} • {Evaluating the fitness, e.g. fitness level or fitness		NOTE
2024/0003	index}		Contrary to the wording of group A63B 29/02,
2024/0068	• • {Comparison to target or threshold, previous performance or not real time comparison to other individuals.}		devices for lowering persons are classified in A62B 1/06
2024/0071	individuals} • Distinction between different activities,	29/021	• • {Means for indicating the location of accidentally
2024/0071	movements, or kind of sports performed}		buried, e.g. snow-buried, persons}
24/0075	• {Means for generating exercise programs or schemes, e.g. computerized virtual trainer, e.g.	2029/022	• • • {with means for automatically activating signal means in case of an avalanche}
	using expert databases}	29/024	• • {Climbing chocks}
2024/0078	{Exercise efforts programmed as a function of	29/025	• • {Ice screws}
	time}	29/027	· · {Pitons}
2024/0081	• {Coaching or training aspects related to a group	29/028	• • {Ropes specially adapted for mountaineering}
24/0004	of users}	29/08	Hand equipment for climbers
24/0084	 {Exercising apparatus with means for competitions, e.g. virtual races} 		

Swimming A63B

Swimming		37/0002	{Arrangements for adjusting, improving or
31/00	Swimming aids (teaching swimming		measuring the grip, i.e. location, size, orientation
31/00	A63B 69/10 - A63B 69/14; life-saving in water {, e.g.	27/0002	or the like of finger holes}
	life-buoys, life-belts,} B63C 9/00)	37/0003 37/0004	 {Golf balls} . {Surface depressions or protrusions}
31/02	Swimming gloves	37/0004	{Protrusions}
31/04	• • with arrangements for enlarging the propulsive	37/0005	{Arrangement or layout of dimples}
21/00	surface		{located around the pole or the equator}
31/08	 Swim fins, flippers or other swimming aids held by, or attachable to, the hands, arms, feet or legs 	37/0007	{Non-circular dimples}
	(A63B 31/18 takes precedence; worn as gloves	37/0008	{Elliptical}
	A63B 31/02)	37/0009	• • • {Polygonal}
31/10	• held by, or attachable to, the hands or feet	37/001	· · · · {Annular}
31/11	attachable only to the feet	37/0011	• • • {Grooves or lines}
2031/112	• • • { with means facilitating walking, e.g.	37/0012	• • • {Dimple profile, i.e. cross-sectional view}
2021/117	rectractable, detachable or pivotable blades}	37/0013	{The dimple being formed in both the cover and the underlying layer}
2031/115	• • • { with blade at an angle to the plane of the foot when in use, e.g. to reduce plantar	37/0015	• • • • { with sub-dimples formed within main
	flexion}	3770013	dimples}
2031/117	• • • • { with blade lying substantially in the	37/0016	• • • {Specified individual dimple volume}
	body-symmetrical plane, e.g. for breast	37/0017	• • • {Specified total dimple volume}
21/12	stroke}	37/0018	{Specified number of dimples}
31/12	• held by, or attachable to, the arms or legs	37/0019	{Specified dimple depth}
31/14 31/18	with valve-flapsSwimming appliances with propulsive effect for	37/002 37/0021	 {Specified dimple diameter} {Occupation ratio, i.e. percentage surface
31/10	hands and feet simultaneously	37/0021	occupied by dimples}
33/00	Swimming equipment attachable to the head, e.g.	37/00215	• • {Volume ratio}
33/00	swim caps or goggles (diving masks <u>B63C 11/12</u> ;	37/0022	• • {Coatings, e.g. paint films; Markings}
	breathing aids, e.g. snorkels, <u>B63C 11/18</u>)		• • • {characterised by the material}
33/002	• {Swimming goggles}		• • • {Physical properties, e.g. hardness}
33/004	• • {comprising two separate lenses joined by a		{Colour tone}
	flexible bridge}		{Covers}
33/006	• • {with means allowing adjustment of the bridge}	37/0024	 • {Materials other than ionomers or polyurethane}
33/008	• • • {with stepless adjustment}	37/0025	{Gutta-percha}
35/00	Swimming framework with driving mechanisms	37/0026	{Balata}
	operated by the swimmer or by a motor (other	37/0027	{Polyurea}
	vessels or like floating structures for pleasure or sport	37/0029	• • {Physical properties}
	<u>B63B 32/00</u> , <u>B63B 34/00</u> ; divers' sleds or like craft <u>B63C 11/46</u>)	37/003	• • • {Coefficient of restitution}
		37/0031	{Hardness}
	NOTE	37/0032	{Hardness gradient}
	References listed below indicate CPC places	37/0033	{Thickness}
	which could also be of interest when carrying out	37/0034	{Deflection or compression}
	a search in respect of the subject matter covered by the preceding group:	37/0035 37/0036	 {Density; Specific gravity} {Melt flow rate [MFR]}
	Effecting propulsion of vessels by	37/0030	{Flexural modulus; Bending stiffness}
	muscle power B63H 16/00		{Colour tone}
	massic power <u>bosit to to</u>		{Transparency or semitransparency}
35/02	shaped like a fish tail	37/0038	{Intermediate layers, e.g. inner cover, outer core,
35/04	• with paddle wheels		mantle}
35/06	• with twin-bladed paddles or buoyant members	37/0039	• • {characterised by the material}
35/08	with propeller propulsion	37/004	{Physical properties}
35/10 35/12	operated by the swimmeroperated by a motor	37/0041	{Coefficient of restitution}
35/125	the motor being driven by compressed air	37/0043	{Hardness}
33/123	carried by the swimmer}	37/0044	{Hardness gradient}
		37/0045 37/0046	{Thickness} {Deflection or compression}
Balls		37/0046	{Density; Specific gravity}
37/00	Solid balls; {Rigid hollow balls; } Marbles (heavy	37/0047	{Melt flow rate [MFR]}
27700	throwing balls A63B 65/06)	37/0049	{Flexural modulus; Bending stiffness}
37/0001	• {Balls with finger holes, e.g. for bowling}	37/00495	{Colour tone}
	- 0	37/005	{Cores}

Balls A63B

37/0051	• • • {Materials other than polybutadienes;	37/06	Elastic cores
	Constructional details}	2037/065	{Foam}
37/0052	{Liquid cores}	37/08	Liquid cores; Plastic cores
37/0053	{Thread wound}	2037/082	• • • {Granular, e.g. comprising beads}
37/0054	• • • {Substantially rigid, e.g. metal}	2037/085	{liquid, jellylike}
37/0055	• • • { with non-spherical insert(s)}	2037/087	• • • {Wound cores or layers}
37/0056	{Hollow; Gas-filled}	37/10	with eccentric centre of gravity
37/0058	• • • {Polyurethane}	37/12	 Special coverings {, i.e. outer layer material (balls
37/0059	{Ionomer}		with finger holes A63B 37/0001, golf ball covers
37/006	• • • {Physical properties}		<u>A63B 37/0023</u>)}
37/0061	• • • {Coefficient of restitution}	2037/125	• • {stitchings}
37/0062	· · · · {Hardness}	37/14	• Special surfaces {(<u>A63B 37/0004</u> takes
37/00621	• • • • {Centre hardness}		precedence)}
37/00622	,	39/00	Hollow non-inflatable balls {, i.e. having no valves
37/0063	• • • • {Hardness gradient}		(rigid balls A63B 37/00)}
37/0064	{Diameter}	2039/003	• {substantially hollow and pressureless}
37/0065	• • • {Deflection or compression}	2039/006	• {pressurised}
37/0066	• • • {Density; Specific gravity}	39/02	Arrangements for maintaining the pressure
37/0067	• • • {Weight; Mass}	2039/022	• • {using special gas-impermeable layers}
37/0068	{ Initial velocity}	39/025	• • {using containers with pressurising means for
37/0069	• • • • {Flexural modulus; Bending stiffness}		balls not in use}
37/00691	{Colour tone}	39/027	• • {using special inflation gases}
37/007	• • {Characteristics of the ball as a whole}	39/04	• Pricking-balls; {Tools for blowing them up}
37/0072	• • • { with a specified number of layers }	39/06	• Special coverings
37/0073	• • • {Solid, i.e. formed of a single piece}	39/08	made of two halves
37/0074	• • • {Two piece balls, i.e. cover and core}		
37/0075	{Three piece balls, i.e. cover, intermediate	41/00	Hollow inflatable balls
	layer and core}	2041/005	• {with counterweight for adjusting the centre of
37/0076	• • • • {Multi-piece balls, i.e. having two or more		gravity}
	intermediate layers}	41/02	• Bladders
37/0077	• • • {Physical properties}	41/04	Closures therefor
37/00773	• • • {Moment of inertia}	41/08	Ball covers; Closures therefor
37/00776	• • • • {Slab hardness}	41/085	• • {Closures}
37/0078	• • • {Coefficient of restitution}	41/10	Bladder and cover united
37/008	{Diameter}	41/12	• Tools or devices for blowing up or closing balls
37/0082	• • • {Density; Specific gravity}	41/105	{(for pricking-balls A63B 39/04)}
37/0083	{Weight; Mass}	41/125	• {Large inflatable balls primarily used as body
37/0084	• • • { Initial velocity }		supports for exercising, e.g. balancing}
37/0086	• • • {Flexural modulus; Bending stiffness}	43/00	Balls with special arrangements
37/0087	• • • {Deflection or compression}	2043/001	• {Short-distance or low-velocity balls for training, or
37/0088	{Frequency}		for playing on a reduced area}
37/0089	• • • {Coefficient of drag}	43/002	• {with special configuration, e.g. non-spherical
37/009	• • • {Coefficient of lift}		(discs for throwing $\underline{A63B} \underline{65/10}$)
37/0091	• • • • {Density distribution amongst the different	43/004	 {electrically conductive, e.g. for automatic
	ball layers}		arbitration}
37/0092	• • • {Hardness distribution amongst different ball	43/005	• {with adhesive type surfaces, e.g. hook-and-loop
	layers}		type fastener}
37/00921	• • • • { whereby hardness of the cover is higher	43/007	• {Arrangements on balls for connecting lines or
	than hardness of the intermediate layers}		cords}
37/00922		43/008	• {with means for improving visibility, e.g. special
	than hardness of the intermediate layers}		markings or colours (illuminating or reflecting
37/0093	• • • • {Moisture vapour transmission rate	12/02	means <u>A63B 43/06</u>)}
	[MVTR]}	43/02	• with a handle
37/0094	{Rebound resilience}	43/04	• with an eccentric centre of gravity; with mechanism
37/0095	• • • {Scuff resistance}		for changing the centre of gravity (solid balls
37/0096	{Spin rate}	12/06	A63B 37/10)
37/0097	{Layers interlocking by means of protrusions	43/06	• with illuminating devices {; with reflective
A = /* * = *	or inserts, lattices or the like}		surfaces}
37/0098	• {Rigid hollow balls, e.g. for pétanque}	45/00	Apparatus or methods for manufacturing balls
37/02	• Special cores {(balls with finger holes		(working of plastics or substances in a plastic state
27/04	A63B 37/0001, golf ball cores A63B 37/005)}		<u>B29</u>)
37/04	Rigid cores		

Balls A63B

45/02	Marking of balls	49/025	Means on frames for clamping string ends
		49/028	 . Means for achieving greater mobility of the string
47/00	Devices for handling or treating balls {, e.g. for		bed
47/001	holding or carrying balls}• {Ball holders attached to the player's body (golfing	49/03	characterised by throat sections, i.e. sections or
47/001	accessories, e.g. holders A63B 57/20)}		elements between the head and the shaft
47/002	• {Devices for dispensing balls, e.g. from a reservoir	49/032	T-shaped connection elements
177002	(automatic teeing devices <u>A63B 57/0006</u> ; devices for projecting balls <u>A63B 69/40</u>)}	2049/0325	• • • { with two legs having mutually different constructions }
2047/004	• • {having means preventing bridge formation	49/035	• • with easily dismountable parts, e.g. heads, shafts
2017/001	during dispensing }		or grips
47/005	• {Ball heating devices}	49/038	• with head subframes for replacing strings
47/007	• {Devices for carrying, stacking or transporting	49/08	• • with special construction of the handle
	bowling balls}	49/10 2049/103	made of non-metallic materials, other than woodstring holes produced during moulding
47/008	 {Devices for measuring or verifying ball characteristics} 		process}
47/02	for picking-up {or collecting}	49/11	• • • with inflatable tubes, e.g. inflatable during fabrication
47/021	• • {for picking-up automatically, e.g. by apparatus	49/12	made of metal
20.45/022	moving over the playing surface}	49/14	Protection devices on the frame
2047/022	• • {Autonomous machines which find their own way around the playing surface}		
47/024	 • {for collecting by using a sweeping means 	51/00	Stringing tennis, badminton or like rackets;
47/024	moving across the playing surface}	51/001	Strings therefor; Maintenance of racket strings • {using strings made of different materials on the}
47/025	• • {Installations continuously collecting balls from	31/001	same frame, e.g. gut and nylon}
	the playing areas, e.g. by gravity, with conveyor	51/002	• {using strings with different cross-sections on the
	belts}	01/002	same frame, e.g. with different thickness}
2047/027	{Hydraulic ball transport}	51/004	• {using strings with different tension on the same
2047/028	• • {pneumatic ball transport}		frame}
47/04	• for cleaning balls (apparatus for cleaning balls, as	51/005	 Devices for measuring the tension of strings
2047/042	accessories for bowling- or table alleys A63D 5/10)		(for controlling the tension during stringing
2047/043 2047/046	. {with drying means}. {Motorised}	51/01	A63B 51/14)
2047/040	• • {Wiotorised}	51/01	Pre-woven string-sets ready for insertion into a frame
	s, or other accessories for ball games	51/01	 Fre-woven string-sets ready for insertion into a frame String-aligning tools
Rackets, bats	s, or other accessories for ball games		frame
		51/015 51/02	frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear
Rackets, bats	s, or other accessories for ball games Stringed rackets, e.g. for tennis (strings therefor A63B 51/00)	51/015	frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear Strings having characteristics varying along the
Rackets, bats	Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES	51/015 51/02 51/023	 frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear {Strings having characteristics varying along the length of the string, e.g. diameter or elasticity}
Rackets, bats	Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES 1. When classifying in groups	51/015 51/02 51/023 51/026	 frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear {Strings having characteristics varying along the length of the string, e.g. diameter or elasticity} {Strings having non-circular cross-section}
Rackets, bats	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	51/015 51/02 51/023 51/026 51/04	frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear Strings having characteristics varying along the length of the string, e.g. diameter or elasticity Strings having non-circular cross-section Sheet-like structures used as substitutes
Rackets, bats	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.	51/015 51/02 51/023 51/026 51/04 51/045	frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear Strings having characteristics varying along the length of the string, e.g. diameter or elasticity Strings having non-circular cross-section Sheet-like structures used as substitutes Wooden blades with perforations
Rackets, bats	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,	51/015 51/02 51/023 51/026 51/04 51/045 51/06	frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear Strings having characteristics varying along the length of the string, e.g. diameter or elasticity Strings having non-circular cross-section Sheet-like structures used as substitutes Wooden blades with perforations Double-sided stringing
Rackets, bats	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.	51/015 51/02 51/023 51/026 51/04 51/045 51/06 51/08	frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear Strings having characteristics varying along the length of the string, e.g. diameter or elasticity Strings having non-circular cross-section Sheet-like structures used as substitutes Swoden blades with perforations Double-sided stringing Diagonal stringing
Rackets, bats	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	51/015 51/02 51/023 51/026 51/04 51/045 51/06 51/08 51/10	frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear Strings having characteristics varying along the length of the string, e.g. diameter or elasticity Strings having non-circular cross-section Sheet-like structures used as substitutes Sheet-like stringing Double-sided stringing Reinforcements for stringing
Rackets, bats	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,	51/015 51/02 51/023 51/026 51/04 51/045 51/06 51/08	frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear Strings having characteristics varying along the length of the string, e.g. diameter or elasticity Strings having non-circular cross-section Sheet-like structures used as substitutes Swoden blades with perforations Double-sided stringing Diagonal stringing
Rackets, bats	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	51/015 51/02 51/023 51/026 51/04 51/045 51/06 51/08 51/10	frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear Strings having characteristics varying along the length of the string, e.g. diameter or elasticity Strings having non-circular cross-section Sheet-like structures used as substitutes Wooden blades with perforations Double-sided stringing Diagonal stringing Reinforcements for stringing Intermediate members for the cross-points of the strings Devices arranged in or on the racket for adjusting
Rackets, bats	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	51/015 51/02 51/023 51/026 51/04 51/045 51/06 51/08 51/10 51/11	frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear Strings having characteristics varying along the length of the string, e.g. diameter or elasticity Strings having non-circular cross-section Sheet-like structures used as substitutes Wooden blades with perforations Double-sided stringing Diagonal stringing Reinforcements for stringing Intermediate members for the cross-points of the strings Devices arranged in or on the racket for adjusting the tension of the strings
Rackets, bats 49/00	Stringed rackets, e.g. for tennis (strings therefor A63B 51/00) NOTES 1. When classifying in groups A63B 49/00 - A63B 60/00, it is desirable to add the indexing codes of group A63B 2102/00. 2. When classifying in groups A63B 49/00, A63B 53/00 or A63B 59/00, subject matter related to details or accessories of golf clubs, bats, rackets or the like are further classified in group A63B 60/00.	51/015 51/02 51/023 51/026 51/04 51/045 51/06 51/08 51/10 51/11	frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear Strings having characteristics varying along the length of the string, e.g. diameter or elasticity Strings having non-circular cross-section Sheet-like structures used as substitutes Wooden blades with perforations Double-sided stringing Diagonal stringing Reinforcements for stringing Intermediate members for the cross-points of the strings Devices arranged in or on the racket for adjusting the tension of the strings Arrangements for stringing, e.g. for controlling the
49/02 2049/0201	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 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}	51/015 51/02 51/023 51/026 51/04 51/045 51/06 51/08 51/10 51/11 51/12	frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear Strings having characteristics varying along the length of the string, e.g. diameter or elasticity Strings having non-circular cross-section Sheet-like structures used as substitutes Wooden blades with perforations Double-sided stringing Diagonal stringing Reinforcements for stringing Intermediate members for the cross-points of the strings Devices arranged in or on the racket for adjusting the tension of the strings, e.g. for controlling the tension of the strings during stringing
49/02 2049/0201 2049/0202	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}	51/015 51/02 51/023 51/026 51/04 51/045 51/06 51/08 51/10 51/11 51/12 51/14	frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear Strings having characteristics varying along the length of the string, e.g. diameter or elasticity Strings having non-circular cross-section Sheet-like structures used as substitutes Wooden blades with perforations Double-sided stringing Diagonal stringing Reinforcements for stringing Intermediate members for the cross-points of the strings Devices arranged in or on the racket for adjusting the tension of the strings Arrangements for stringing, e.g. for controlling the tension of the strings during stringing Hand-held string-tensioning devices
49/02 2049/0201 2049/0202 2049/0203	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} • . {comprising at least two similar parts assembled	51/015 51/02 51/023 51/026 51/04 51/045 51/06 51/08 51/10 51/11 51/12	frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear Strings having characteristics varying along the length of the string, e.g. diameter or elasticity} Strings having non-circular cross-section} Sheet-like structures used as substitutes Sheet-like structures used as substitutes Sheet-like stringing Double-sided stringing Diagonal stringing Reinforcements for stringing Intermediate members for the cross-points of the strings Devices arranged in or on the racket for adjusting the tension of the strings Arrangements for stringing, e.g. for controlling the tension of the strings during stringing Hand-held string-tensioning devices Hoevices simultaneously raising and lowering
49/02 49/02 2049/0201 2049/0202 2049/0203 2049/0204 2049/0205	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} • . {comprising at least two similar parts assembled with the interface plane parallel to the string plane}	51/015 51/02 51/023 51/026 51/04 51/045 51/06 51/08 51/10 51/11 51/12 51/14	 String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear {Strings having characteristics varying along the length of the string, e.g. diameter or elasticity} {Strings having non-circular cross-section} Sheet-like structures used as substitutes {Wooden blades with perforations} Double-sided stringing Diagonal stringing Reinforcements for stringing Intermediate members for the cross-points of the strings Devices arranged in or on the racket for adjusting the tension of the strings Arrangements for stringing, e.g. for controlling the tension of the strings during stringing {Hand-held string-tensioning devices} {Devices simultaneously raising and lowering alternate longitudinal strings previously mounted in a frame, to facilitate the threading of the cross
49/02 49/02 2049/0201 2049/0202 2049/0203 2049/0204 2049/0205	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} • . {comprising at least two similar parts assembled with the interface plane parallel to the string plane} • . {with defined overall length}	51/015 51/02 51/023 51/026 51/04 51/045 51/08 51/10 51/11 51/12 51/14 51/143 51/146	frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear Strings having characteristics varying along the length of the string, e.g. diameter or elasticity} Strings having non-circular cross-section} Sheet-like structures used as substitutes Wooden blades with perforations} Double-sided stringing Diagonal stringing Reinforcements for stringing Intermediate members for the cross-points of the strings Devices arranged in or on the racket for adjusting the tension of the strings Arrangements for stringing, e.g. for controlling the tension of the strings during stringing Hand-held string-tensioning devices} Hoevices simultaneously raising and lowering alternate longitudinal strings previously mounted in a frame, to facilitate the threading of the cross strings}
49/02 49/02 2049/0201 2049/0202 2049/0203 2049/0204 2049/0205	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} • . {comprising at least two similar parts assembled with the interface plane parallel to the string plane} • . {with defined overall length} • . {with variable thickness of the head in a direction	51/015 51/02 51/023 51/026 51/04 51/045 51/06 51/08 51/10 51/11 51/12 51/14 51/143 51/146	 String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear {Strings having characteristics varying along the length of the string, e.g. diameter or elasticity} {Strings having non-circular cross-section} Sheet-like structures used as substitutes {Wooden blades with perforations} Double-sided stringing Diagonal stringing Reinforcements for stringing Intermediate members for the cross-points of the strings Devices arranged in or on the racket for adjusting the tension of the strings Arrangements for stringing, e.g. for controlling the tension of the strings during stringing {Hand-held string-tensioning devices} {Devices simultaneously raising and lowering alternate longitudinal strings previously mounted in a frame, to facilitate the threading of the cross strings} Apparatus for stringing while manufacturing
49/02 49/02 2049/0201 2049/0202 2049/0203 2049/0204 2049/0207 2049/0211	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 29/00, 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} • . {comprising at least two similar parts assembled with the interface plane parallel to the string plane} • . {with defined overall length} • . {with variable thickness of the head in a direction perpendicular to the string plane}	51/015 51/02 51/023 51/026 51/04 51/045 51/08 51/10 51/11 51/12 51/14 51/143 51/146	frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear Strings having characteristics varying along the length of the string, e.g. diameter or elasticity} Strings having non-circular cross-section} Sheet-like structures used as substitutes Wooden blades with perforations} Double-sided stringing Diagonal stringing Reinforcements for stringing Intermediate members for the cross-points of the strings Devices arranged in or on the racket for adjusting the tension of the strings Arrangements for stringing, e.g. for controlling the tension of the strings during stringing Hand-held string-tensioning devices} Hoevices simultaneously raising and lowering alternate longitudinal strings previously mounted in a frame, to facilitate the threading of the cross strings}
49/02 49/02 2049/0201 2049/0202 2049/0203 2049/0205 2049/0207 2049/0211 2049/0212	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} • . {comprising at least two similar parts assembled with the interface plane parallel to the string plane} • . {with defined overall length} • . {with defined weight}	51/015 51/02 51/023 51/026 51/04 51/045 51/06 51/08 51/10 51/11 51/12 51/14 51/143 51/146	 String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear {Strings having characteristics varying along the length of the string, e.g. diameter or elasticity} {Strings having non-circular cross-section} Sheet-like structures used as substitutes {Wooden blades with perforations} Double-sided stringing Diagonal stringing Reinforcements for stringing Intermediate members for the cross-points of the strings Devices arranged in or on the racket for adjusting the tension of the strings Arrangements for stringing, e.g. for controlling the tension of the strings during stringing {Hand-held string-tensioning devices} {Devices simultaneously raising and lowering alternate longitudinal strings previously mounted in a frame, to facilitate the threading of the cross strings} Apparatus for stringing while manufacturing
49/02 49/00 49/02 2049/0201 2049/0202 2049/0203 2049/0205 2049/0207 2049/0211 2049/0212 2049/0213	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} • . {comprising at least two similar parts assembled with the interface plane parallel to the string plane} • . {with defined overall length} • . {with variable thickness of the head in a direction perpendicular to the string plane} • . {with defined weight} • . {without strings}	51/015 51/02 51/023 51/026 51/04 51/045 51/06 51/08 51/10 51/11 51/12 51/14 51/143 51/146	frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear • {Strings having characteristics varying along the length of the string, e.g. diameter or elasticity} • {Strings having non-circular cross-section} • Sheet-like structures used as substitutes • • {Wooden blades with perforations} • Double-sided stringing • Diagonal stringing • Reinforcements for stringing • Intermediate members for the cross-points of the strings • Devices arranged in or on the racket for adjusting the tension of the strings • Arrangements for stringing, e.g. for controlling the tension of the strings during stringing • {Hand-held string-tensioning devices} • {Devices simultaneously raising and lowering alternate longitudinal strings previously mounted in a frame, to facilitate the threading of the cross strings} • Apparatus for stringing while manufacturing Golf clubs NOTE
49/02 49/00 49/02 2049/0201 2049/0202 2049/0203 2049/0205 2049/0207 2049/0211 2049/0212 2049/0213 2049/0214	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} • . {comprising at least two similar parts assembled with the interface plane parallel to the string plane} • . {with defined overall length} • . {with variable thickness of the head in a direction perpendicular to the string plane} • . {with defined weight} • . {without strings} • {head only}	51/015 51/02 51/023 51/026 51/04 51/045 51/06 51/08 51/10 51/11 51/12 51/14 51/143 51/146	frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear Strings having characteristics varying along the length of the string, e.g. diameter or elasticity} Strings having non-circular cross-section} Sheet-like structures used as substitutes Wooden blades with perforations} Double-sided stringing Diagonal stringing Reinforcements for stringing Intermediate members for the cross-points of the strings Devices arranged in or on the racket for adjusting the tension of the strings Arrangements for stringing, e.g. for controlling the tension of the strings during stringing Hand-held string-tensioning devices} Hoevices simultaneously raising and lowering alternate longitudinal strings previously mounted in a frame, to facilitate the threading of the cross strings} Apparatus for stringing while manufacturing Golf clubs
49/02 49/00 49/02 2049/0201 2049/0202 2049/0203 2049/0205 2049/0207 2049/0211 2049/0212 2049/0213	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} • . {comprising at least two similar parts assembled with the interface plane parallel to the string plane} • . {with defined overall length} • . {with variable thickness of the head in a direction perpendicular to the string plane} • . {with defined weight} • . {without strings}	51/015 51/02 51/023 51/026 51/04 51/045 51/06 51/08 51/10 51/11 51/12 51/14 51/143 51/146	frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear • {Strings having characteristics varying along the length of the string, e.g. diameter or elasticity} • {Strings having non-circular cross-section} • Sheet-like structures used as substitutes • • {Wooden blades with perforations} • Double-sided stringing • Diagonal stringing • Reinforcements for stringing • Intermediate members for the cross-points of the strings • Devices arranged in or on the racket for adjusting the tension of the strings • Arrangements for stringing, e.g. for controlling the tension of the strings during stringing • {Hand-held string-tensioning devices} • {Devices simultaneously raising and lowering alternate longitudinal strings previously mounted in a frame, to facilitate the threading of the cross strings} • Apparatus for stringing while manufacturing Golf clubs NOTE When classifying in group A63B 53/00 and subgroups, subject matter related to details or accessories of golf clubs, bats, rackets or the like
49/02 49/00 49/00 2049/0201 2049/0202 2049/0203 2049/0205 2049/0207 2049/0211 2049/0212 2049/0213 2049/0214	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} • . {comprising at least two similar parts assembled with the interface plane parallel to the string plane} • . {with defined overall length} • . {with variable thickness of the head in a direction perpendicular to the string plane} • . {with defined weight} • . {with out strings} • {head only} • . {with variable thickness of the head in the string	51/015 51/02 51/023 51/026 51/04 51/045 51/06 51/08 51/10 51/11 51/12 51/14 51/143 51/146	frame String-aligning tools Strings; String substitutes; Products applied on strings, e.g. for protection against humidity or wear • {Strings having characteristics varying along the length of the string, e.g. diameter or elasticity} • {Strings having non-circular cross-section} • Sheet-like structures used as substitutes • • {Wooden blades with perforations} • Double-sided stringing • Diagonal stringing • Reinforcements for stringing • Intermediate members for the cross-points of the strings • Devices arranged in or on the racket for adjusting the tension of the strings • Arrangements for stringing, e.g. for controlling the tension of the strings during stringing • {Hand-held string-tensioning devices} • {Devices simultaneously raising and lowering alternate longitudinal strings previously mounted in a frame, to facilitate the threading of the cross strings} • Apparatus for stringing while manufacturing Golf clubs NOTE When classifying in group A63B 53/00 and subgroups, subject matter related to details or

53/002	• {Clubs made of composite, plastics or rubbe		. Metallic shafts
52/005	materials, with integral head and shaft}	53/14	• Handles
53/005	• {Club sets}	55/00	Bags for golf clubs; Stands for golf clubs for use on
53/007 53/02	{Putters}Joint structures between the head and the sh	. C.	the course; Wheeled carriers specially adapted for
53/02	•		golf bags
	• • {the shaft axis being forwardly offset rela the striking face of the head}	33/10	• Stands for golf clubs {, e.g.} for use on the course {; Golf club holders, racks or presses}
53/022	• • (allowing adjustable positioning of the he	ad with 55/20	• with special receptacles for the balls
52/022	respect to the shaft}	55/30	Bags with wheels
53/023	 {adjustable angular orientation} {lie angle only, i.e. relative angular	55/40	Bags with partitions or club holders
53/025	adjustment between the shaft and the	club 2055/402	• {Warning devices for indicating missing golf clubs}
	head about an axis parallel to the inte	2055/402	• {Security means for locking golf clubs in the bag}
	line of play when the club is in its no		• {Covers or hoods for golf bags}
	address position}	55/406	{releasably attached}
53/026	• • • {loft angle only, i.e. relative angular	55/408	• {Releasably mounted accessories fitted outside
	adjustment between the shaft and the	club	the bag, e.g. straps or holders (A63B 55/20 and
	head about a horizontal axis perpendi		A63B 55/50 take precedence)
	the intended line of play when the clu	b is in 55/50	• Supports, e.g. with devices for anchoring to the
	its normal address position}	2 55/52	ground
53/027	• • • {about the longitudinal axis of the sh only}	aft 55/53	• • with legs opening automatically upon putting the bag on the ground
53/028	• • { with a range of alternative attachment	points 55/57	Bags with tripod or like set-up stands
	for the shaft}	55/60	 Wheeled carriers specially adapted for golf bags
53/04	. Heads	2055/601	• • {Caddies fitted with means for sitting}
53/0408	• • {characterised by specific dimensions, e.g	2055/602	• • {Means for mounting weather shields, e.g.
	thickness}		umbrellas, on caddies}
53/0412	· · · {Volume}	2055/603	• • { with means for trailing the caddy other than by
53/0416	• • {Heads having an impact surface provided	•	hand}
50/040	face insert}	2055/604	• • • (by mechanical links attached to the golf
53/042	• • • {the face insert consisting of a material different from that of the head}	2055/605	players}
53/0425	• • • • {the face insert comprising two or mo	2055/605 ore 55/61	 {by remote control}. {motorised}
33/0423	different materials}	2055/615	{Units for converting manually-driven golf
53/0429	• • • {the face insert comprising two or more		carts into motorised ones}
53/0433	of material } {with special sole configurations}	57/00	Golfing accessories
53/0437	 {with special cown configurations} {with special crown configurations}	57/0006	• {Automatic teeing devices (devices for
53/0441	 . {with special crown configurations} . {with visual indicators for aligning the go 	lf club}	automatically dispensing balls in general
53/0445	{Details of grooves or the like on the imp.	act	<u>A63B 47/002</u>)}
33/0443	surface}	57/0012	• {Devices for forming the tees}
53/045	• • {Strengthening ribs}	57/0032	• {Tee-gauges; Tee-repairing devices}
53/0454	• • (Strengthening ribs on the rear surface	of the 57/0037	• {Devices for inserting or extracting tees}
	impact face plate}	5//10	• Golf tees
53/0458	• • {with non-uniform thickness of the impac	t face 57/12	attached to straps
	plate}	57/13	foldable or separable
53/0462	{characterised by tapering thickness of	the 57/15	height-adjustable
	impact face plate}	57/16	Brush-type tees
53/0466	• • {wood-type}	57/18	• with writing means
53/047	• • {iron-type}	57/19	with direction indicators
53/0475	• • { with one or more enclosed cavities}	57/20	• Holders, e.g. of tees or of balls
2053/0479	• • • {Wedge-type clubs, details thereof}	57/203	• • {Tee holders (to be fitted on golf bags or caddies
2053/0483	• • • {Chipping clubs, details thereof}	57/207	A63B 55/408)}
53/0487	• • {for putters (<u>A63B 53/065</u> takes preceden	ce)} 57/207	• • {Golf ball position marker holders}
	• • { with added weights, e.g. changeable,	57/30 57/25	. Markers
2053/0491		57/35	with magnets
	replaceable}	ET 10.50	(Colf holl modition)
	replaceable} {moving on impact, slidable, spring or	57/353 57/257	{Golf ball position markers}
2053/0491 2053/0495	replaceable} • • {moving on impact, slidable, spring or otherwise elastically biased}	57/357	• • {for golf cups or holes, e.g. flags}
2053/0495	replaceable} • • {moving on impact, slidable, spring or otherwise elastically biased} • • adjustable	57/357 57/40	• { for golf cups or holes, e.g. flags }• Golf cups or holes
2053/0495 53/06 53/065	replaceable} {moving on impact, slidable, spring or otherwise elastically biased} adjustable {for putters}	57/357 57/40 57/405	. {for golf cups or holes, e.g. flags}. Golf cups or holes. {Cups with automatic ball ejector means}
2053/0495 53/06	replaceable} {moving on impact, slidable, spring or otherwise elastically biased} adjustable {for putters} . with special arrangements for obtaining a variable.	57/357 57/40 57/405 riable 57/50	 . {for golf cups or holes, e.g. flags} . Golf cups or holes . {Cups with automatic ball ejector means} . specially adapted for course maintenance
2053/0495 53/06 53/065	replaceable} {moving on impact, slidable, spring or otherwise elastically biased} adjustable {for putters}	57/357 57/40 57/405	. {for golf cups or holes, e.g. flags}. Golf cups or holes. {Cups with automatic ball ejector means}

60/08

. . characterised by the material $% \left(1\right) =\left(1\right) \left(1\right$

57/60	• Cleaning or maintenance of golf clubs, putters, shoes or other golf accessories ({cleaning balls	60/10	• • with means for indicating correct holding positions (A63B 60/12 takes precedence)
	A63B 47/04;} devices for cleaning handles or grips of golf clubs or putters A63B 60/36)	60/12	contoured according to the anatomy of the user's hand
2057/605	• • {Means for heating or drying golf clubs}	60/14	Coverings specially adapted for handles, e.g. sleeves or ribbons
59/00	Bats, rackets, or the like, not covered by groups A63B 49/00 - A63B 57/00	60/16	Caps; Ferrules
	NOTES	60/18	 with means for cooling, ventilating or sweat- reduction, e.g. holes or powder dispensers
	1. In this group, the following term is used with the	60/20	• with two handgrips
	meaning indicated:	60/22	Adjustable handles
	"ball" covers also pucks or other objects to be	60/24	Weighted handles
	hit during the game.	60/26	• • with adjustable stiffness
	2. When classifying in group A63B 59/00 and	60/28	with adjustable length
	subgroups, subject matter related to details or	60/30	with adjustable circumference
	accessories of golf clubs, bats, rackets or the like are further classified in group A63B 60/00.	60/32	with means for changing the angular position of the handle about its longitudinal axis
59/20	. having means, e.g. pockets, netting or adhesive	60/34	• • with the handle axis different from the main axis of the implement
	type surfaces, for catching or holding a ball, e.g. for	60/36	Devices for cleaning handles or grips
50/20	lacrosse or pelota	60/38	Structurally associated means for storing and
59/30	forming hand-held throwing or catching aids for use with rings, discs, wheels or cylindrical throwing-	60/40	dispensing balls having holding means provided inside, on the edge
5 0.440	bodies, or for use with balls having a central bore	00/40	or on the rear face of the striking surface
59/40	. Rackets or the like with flat striking surfaces for	60/42	Devices for measuring, verifying, correcting or
50/40	hitting a ball in the air, e.g. for table tennis	00/42	customising the inherent characteristics of golf
59/42	• with solid surfaces		clubs, bats, rackets or the like, e.g. measuring the
59/45	• • • Rubber parts thereof; characterised by bonding between a rubber part and the racket body	60/44	maximum torque a batting shaft can withstand • Presses for stringed rackets
59/48	with perforated surfaces	60/46	Measurement devices associated with golf clubs,
59/50	• Substantially rod-shaped bats for hitting a ball in the air, e.g. for baseball	00/40	bats, rackets or the like for measuring physical parameters relating to sporting activity, e.g.
59/51	• • made of metal		baseball bats with impact indicators or bracelets for
59/52	made of wood or bamboo		measuring the golf swing
59/54	• • made of plastic	2060/462	
59/55	with non-circular cross-section	2000/402	determine correct grip size}
59/56	characterised by the head	2060/464	• • {Means for indicating or measuring the pressure
59/58	• characterised by the shape (A63B 59/55, A63B 59/56 take precedence)	60/48	on the grip} with corrugated cross-section
2059/581	• • { with a continuously tapered barrel}	60/50	with through-holes (A63B 60/18 takes precedence;
59/59	• • with sound generators, e.g. with internal movable members therefor		for stringing purposes A63B 49/00) with slits
59/60	• of mallet type, e.g. for croquet {or polo}	60/52	
59/70	• with bent or angled lower parts for hitting a ball on	60/54	with means for damping vibrations
	the ground, on an ice-covered surface, or in the air, e.g. for hockey or hurling	60/56	Devices for protection, storage or transport, e.g. stands or cases
59/80	• Circular bats or paddles not provided for in groups	60/58	specially adapted for rackets
237,00	A63B 59/20 - A63B 59/70	60/60	specially adapted for bats
		60/62	• specially adapted for clubs, e.g. head covers {,
60/00	Details or accessories of golf clubs, bats, rackets or the like	60/64	connector means therefor}. Sheaths for golf clubs
60/002	• {Resonance frequency related characteristics}	61/00	Tennis nets or accessories for tennis or like games
60/004	• {Striking surfaces coated with high-friction abrasive materials}	01/00	{, e.g. volley-ball (devices for holding or carrying balls A63B 47/00; for table tennis A63B 67/04)}
60/006	 {Surfaces specially adapted for reducing air resistance} 	61/003	• {Nets for tennis or like games or accessories
60/0081	• {Substantially flexible shafts; Hinged shafts}		therefor (straining or adjusting devices on the posts
60/0085	• {Telescopic shafts}	61/006	A63B 61/02)}
60/02	Ballast means for adjusting the centre of mass	61/006	 {Accessories for training purposes mounted on the net}
	(<u>A63B 60/24</u> , <u>A63B 60/54</u> take precedence)	61/02	• Posts; Revolvably-mounted posts {; Straining or
60/04	• • Movable ballast means {(<u>A63B 15/005</u> takes precedence)}	01/02	adjusting devices on the posts, e.g. coin- or time operated}
60/06	• Handles	2061/025	• {electrically driven}
60/00	1		

61/04	Straining or adjusting devices for note (a g	67/06	• Ring or disc tossing games {, e.g. quoits; Throwing
	 Straining or adjusting devices for nets {, e.g. centre strainers, single-double adjusters, net height 	07/00	or tossing games, e.g. using balls; Games for
	meters (straining or adjusting devices on the posts		manually rolling balls, e.g. marbles}
	<u>A63B 61/02</u>)}	2067/061	• • {Means to mark out tossing area}
63/00	Targets or goals for ball games (golf cups	2067/063	• {tossing, e.g. rings or horseshoes around or on, e.g. posts, hooks}
20/2/001	A63B 57/40)	2067/065	• • {used tossed devices of different sizes giving
2063/001	• {Targets or goals with ball-returning means}		different degrees of difficulty for fitting in or over
2063/002	• {variable in size}		a target}
63/003	• {non-electronic means for locating the point of impact on a target or the point of entry in the goal}	67/066	• • {using balls on a horizontal playing ground, e.g. petanque}
63/004	• {Goals of the type used for football, handball, hockey or the like}	67/068	. • {Devices used therewith for measuring distance or difference in distance}
2063/005	• • {having means not protruding from the profile of the post for attachment of a net}	67/08	 Juggling or spinning ball games played as games of skill (A63B 67/16 takes precedence)
2063/006	• {Forming a target or goal by fixing net or target area to garage doorway or garage parts}	67/083	• • {Juggling games with integral catching or
63/007	• {Target zones without opening defined on a	67/096	bouncing arrangements}
02,007	substantially horizontal surface}	67/086	• • {Juggling games using sticks or discs}
63/008	• {Goals for rugby or American football}	67/10	Games with thread-suspended or swingably-
63/06	• Revolving targets {; Moving targets, e.g. moving or		mounted bodies, e.g. balls, pointed bodies shaped as
03/00	revolving on impact}		birds, animals, or the like, for aiming at and hitting
2063/065	• {movable or switchable between discrete}		targets (games using a bat with a ball tethered
2003/003	positions, e.g. after a successful shot}		thereto A63B 67/20, pin games with tethered balls
63/08	with {substantially} horizontal opening for ball,		A63D 7/00) {; Games using tethered bodies, e.g.
03/08	e.g. for basketball {(<u>A63B 57/40</u> , <u>A63B 63/06</u> take	65.40	balls, not otherwise provided for}
	e.g. 101 basketball {\(\frac{A03B 37/40}{27/40}\), \(\frac{A03B 03/00}{27/40}\) take precedence\()}	67/12	• Flip games {, i.e. games using playing bodies being
63/083	• {for basketball}		flipped or twirled up in the air, e.g. for hitting them
		67/14	with a bat; Games of tip-cat}
2063/086	{deflectable under excessive loads}	67/14	Curling stone; Shuffleboard; Similar sliding games
65/00	Implements for throwing (throwing	2067/142	• • {with braking means}
	toys A63H 33/18) {; Mechanical projectors, e.g.	2067/144	• • {variable}
	using spring force}	2067/146	• • {Stones with rolling elements}
65/02	• Spears or the like {; Javelins}	67/148	• • {Curling brooms or brushes}
65/04	. Throwing-hammers	67/16	 Diabolos or similar thrown and caught spinning
65/06	• Heavy throwing-balls {, i.e. "medicine balls", shots,	65/165	tops; Throwing and catching devices therefor
	weights or stones for putting}	67/165	• • {the diabolo being able to rotate freely in one
65/08	• Boomerangs {; Throwing apparatus therefor}		direction only, e.g. fitted with an over-running
65/10	 Discus discs; Quoits 		alutah l
	• Discus discs, Quoits	67/10	clutch}
65/12	Ball-throwing apparatus with or without catchers	67/18	• Badminton or similar games with feathered missiles
	• Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids <u>A63B 59/20</u>);	67/183	 Badminton or similar games with feathered missiles Feathered missiles
	Ball-throwing apparatus with or without catchers	67/183 67/187	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks
	• Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids <u>A63B 59/20</u>);	67/183 67/187 67/19	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other
65/12	• Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force}	67/183 67/187 67/19 67/193	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other with all feathers made in one piece
65/122 65/125	 Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force} {Hand-held mechanical projectors, e.g. for balls} { with handles or grips on both sides of the catching-throwing means, for two-handed use} 	67/183 67/187 67/19	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other
65/12 65/122	 Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force} {Hand-held mechanical projectors, e.g. for balls} {with handles or grips on both sides of the catching-throwing means, for two-handed use} {Means for throwing or catching balls, attached to 	67/183 67/187 67/19 67/193 67/197	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other with all feathers made in one piece with special functions, e.g. light emission or sound generation
65/122 65/125	 Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force} {Hand-held mechanical projectors, e.g. for balls} { with handles or grips on both sides of the catching-throwing means, for two-handed use} 	67/183 67/187 67/19 67/193	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other with all feathers made in one piece with special functions, e.g. light emission or
65/122 65/125	 Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force} {Hand-held mechanical projectors, e.g. for balls} {with handles or grips on both sides of the catching-throwing means, for two-handed use} {Means for throwing or catching balls, attached to the foot} Sporting games or accessories therefor, not	67/183 67/187 67/19 67/193 67/197	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other with all feathers made in one piece with special functions, e.g. light emission or sound generation Games using a bat {or racket} with a ball {or other body} tethered thereto
65/122 65/125 65/127	 Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force} {Hand-held mechanical projectors, e.g. for balls} {with handles or grips on both sides of the catching-throwing means, for two-handed use} {Means for throwing or catching balls, attached to the foot} Sporting games or accessories therefor, not provided for in groups A63B 1/00 - A63B 65/00	67/183 67/187 67/19 67/193 67/197	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other with all feathers made in one piece with special functions, e.g. light emission or sound generation Games using a bat {or racket} with a ball {or other
65/122 65/125 65/127	 Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force} {Hand-held mechanical projectors, e.g. for balls} {with handles or grips on both sides of the catching-throwing means, for two-handed use} {Means for throwing or catching balls, attached to the foot} Sporting games or accessories therefor, not	67/183 67/187 67/19 67/193 67/197	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other with all feathers made in one piece with special functions, e.g. light emission or sound generation Games using a bat {or racket} with a ball {or other body} tethered thereto {the bat having one or more spigots for catching
65/122 65/125 65/127 67/00	 Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force} {Hand-held mechanical projectors, e.g. for balls} {with handles or grips on both sides of the catching-throwing means, for two-handed use} {Means for throwing or catching balls, attached to the foot} Sporting games or accessories therefor, not provided for in groups A63B 1/00 - A63B 65/00	67/183 67/187 67/19 67/193 67/197 67/20	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other with all feathers made in one piece with special functions, e.g. light emission or sound generation Games using a bat {or racket} with a ball {or other body} tethered thereto {the bat having one or more spigots for catching bodies having a bore, e.g. rings} the bat {or racket} having one or more holes {or
65/122 65/125 65/127 67/00	 Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force} {Hand-held mechanical projectors, e.g. for balls} {with handles or grips on both sides of the catching-throwing means, for two-handed use} {Means for throwing or catching balls, attached to the foot} Sporting games or accessories therefor, not provided for in groups A63B 1/00 - A63B 65/00 {Games using balls, not otherwise provided for} 	67/183 67/187 67/19 67/193 67/197 67/20	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other with all feathers made in one piece with special functions, e.g. light emission or sound generation Games using a bat {or racket} with a ball {or other body} tethered thereto {the bat having one or more spigots for catching bodies having a bore, e.g. rings} the bat {or racket} having one or more holes {or pockets} therein {, e.g. for catching or collecting
65/122 65/125 65/127 67/00	 Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force} {Hand-held mechanical projectors, e.g. for balls} {with handles or grips on both sides of the catching-throwing means, for two-handed use} {Means for throwing or catching balls, attached to the foot} Sporting games or accessories therefor, not provided for in groups A63B 1/00 - A63B 65/00 {Games using balls, not otherwise provided for} {Games similar to volleyball or basketball and 	67/183 67/187 67/19 67/193 67/197 67/20	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other with all feathers made in one piece with special functions, e.g. light emission or sound generation Games using a bat {or racket} with a ball {or other body} tethered thereto {the bat having one or more spigots for catching bodies having a bore, e.g. rings} the bat {or racket} having one or more holes {or
65/122 65/125 65/127 67/00	 Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force} {Hand-held mechanical projectors, e.g. for balls} {with handles or grips on both sides of the catching-throwing means, for two-handed use} {Means for throwing or catching balls, attached to the foot} Sporting games or accessories therefor, not provided for in groups A63B 1/00 - A63B 65/00 {Games using balls, not otherwise provided for} {Games similar to volleyball or basketball and played on trampolines or the like, e.g. "Spaceball" 	67/183 67/187 67/19 67/193 67/197 67/20 67/205	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other with all feathers made in one piece with special functions, e.g. light emission or sound generation Games using a bat {or racket} with a ball {or other body} tethered thereto {the bat having one or more spigots for catching bodies having a bore, e.g. rings} 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}
65/12 65/122 65/125 65/127 67/00 67/002 2067/005	 Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force} {Hand-held mechanical projectors, e.g. for balls} {with handles or grips on both sides of the catching-throwing means, for two-handed use} {Means for throwing or catching balls, attached to the foot} Sporting games or accessories therefor, not provided for in groups A63B 1/00 - A63B 65/00 {Games using balls, not otherwise provided for} {Games similar to volleyball or basketball and played on trampolines or the like, e.g. "Spaceball" or "Aeroball"} 	67/183 67/187 67/19 67/193 67/197 67/20	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other with all feathers made in one piece with special functions, e.g. light emission or sound generation Games using a bat {or racket} with a ball {or other body} tethered thereto {the bat having one or more spigots for catching bodies having a bore, e.g. rings} 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} Training appliances or apparatus for special
65/12 65/122 65/125 65/127 67/00 67/002 2067/005	 Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force} {Hand-held mechanical projectors, e.g. for balls} {with handles or grips on both sides of the catching-throwing means, for two-handed use} {Means for throwing or catching balls, attached to the foot} Sporting games or accessories therefor, not provided for in groups A63B 1/00 - A63B 65/00 {Games using balls, not otherwise provided for} {Games similar to volleyball or basketball and played on trampolines or the like, e.g. "Spaceball" or "Aeroball"} {played in water} 	67/183 67/187 67/19 67/193 67/197 67/20 67/205	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other with all feathers made in one piece with special functions, e.g. light emission or sound generation Games using a bat {or racket} with a ball {or other body} tethered thereto {the bat having one or more spigots for catching bodies having a bore, e.g. rings} 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} Training appliances or apparatus for special sports (training of parachutists B64D 23/00)
65/12 65/122 65/125 65/127 67/00 67/002 2067/005	 Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force} {Hand-held mechanical projectors, e.g. for balls} {with handles or grips on both sides of the catching-throwing means, for two-handed use} {Means for throwing or catching balls, attached to the foot} Sporting games or accessories therefor, not provided for in groups A63B 1/00 - A63B 65/00 {Games using balls, not otherwise provided for} {Games similar to volleyball or basketball and played on trampolines or the like, e.g. "Spaceball" or "Aeroball"} {played in water} Special golf games, e.g. miniature golf {or golf 	67/183 67/187 67/19 67/193 67/197 67/20 67/205 67/22	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other with all feathers made in one piece with special functions, e.g. light emission or sound generation Games using a bat {or racket} with a ball {or other body} tethered thereto {the bat having one or more spigots for catching bodies having a bore, e.g. rings} 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} Training appliances or apparatus for special sports (training of parachutists B64D 23/00) {for baseball}
65/12 65/122 65/125 65/127 67/00 67/002 2067/005	 Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force} {Hand-held mechanical projectors, e.g. for balls} {with handles or grips on both sides of the catching-throwing means, for two-handed use} {Means for throwing or catching balls, attached to the foot} Sporting games or accessories therefor, not provided for in groups A63B 1/00 - A63B 65/00 {Games using balls, not otherwise provided for} {Games similar to volleyball or basketball and played on trampolines or the like, e.g. "Spaceball" or "Aeroball"} {played in water} Special golf games, e.g. miniature golf {or golf putting games played on putting tracks; putting 	67/183 67/187 67/19 67/193 67/197 67/20 67/205 67/22 69/00 69/0002 2069/0004	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other with all feathers made in one piece with special functions, e.g. light emission or sound generation Games using a bat {or racket} with a ball {or other body} tethered thereto {the bat having one or more spigots for catching bodies having a bore, e.g. rings} 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} Training appliances or apparatus for special sports (training of parachutists B64D 23/00) {for baseball} {specially adapted for particular training aspects}
65/12 65/122 65/125 65/127 67/00 67/002 2067/005	 Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force} {Hand-held mechanical projectors, e.g. for balls} {with handles or grips on both sides of the catching-throwing means, for two-handed use} {Means for throwing or catching balls, attached to the foot} Sporting games or accessories therefor, not provided for in groups A63B 1/00 - A63B 65/00 {Games using balls, not otherwise provided for} {Games similar to volleyball or basketball and played on trampolines or the like, e.g. "Spaceball" or "Aeroball"} {played in water} Special golf games, e.g. miniature golf {or golf putting games played on putting tracks; putting practice apparatus having an elongated platform as a putting track} {with incorporated means acting on the track 	67/183 67/187 67/19 67/193 67/197 67/20 67/205 67/22 69/00 69/0002 2069/0004 2069/0006	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other with all feathers made in one piece with special functions, e.g. light emission or sound generation Games using a bat {or racket} with a ball {or other body} tethered thereto {the bat having one or more spigots for catching bodies having a bore, e.g. rings} 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} Training appliances or apparatus for special sports (training of parachutists B64D 23/00) {for baseball} {specially adapted for particular training aspects} {for pitching}
65/12 65/122 65/125 65/127 67/00 67/002 2067/005	 Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force} {Hand-held mechanical projectors, e.g. for balls} {with handles or grips on both sides of the catching-throwing means, for two-handed use} {Means for throwing or catching balls, attached to the foot} Sporting games or accessories therefor, not provided for in groups A63B 1/00 - A63B 65/00 {Games using balls, not otherwise provided for} {Games similar to volleyball or basketball and played on trampolines or the like, e.g. "Spaceball" or "Aeroball"} {played in water} Special golf games, e.g. miniature golf {or golf putting games played on putting tracks; putting practice apparatus having an elongated platform as a putting track} {with incorporated means acting on the track surface for varying its topography, e.g. slope} 	67/183 67/187 67/19 67/193 67/197 67/20 67/205 67/22 69/00 69/0002 2069/0004 2069/0006 2069/0008	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other with all feathers made in one piece with special functions, e.g. light emission or sound generation Games using a bat {or racket} with a ball {or other body} tethered thereto {the bat having one or more spigots for catching bodies having a bore, e.g. rings} 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} Training appliances or apparatus for special sports (training of parachutists B64D 23/00) {for baseball} {specially adapted for particular training aspects} {for pitching} {for batting}
65/12 65/122 65/125 65/127 67/00 67/002 2067/005	 Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force} {Hand-held mechanical projectors, e.g. for balls} {with handles or grips on both sides of the catching-throwing means, for two-handed use} {Means for throwing or catching balls, attached to the foot} Sporting games or accessories therefor, not provided for in groups A63B 1/00 - A63B 65/00 {Games using balls, not otherwise provided for} {Games similar to volleyball or basketball and played on trampolines or the like, e.g. "Spaceball" or "Aeroball"} {played in water} Special golf games, e.g. miniature golf {or golf putting games played on putting tracks; putting practice apparatus having an elongated platform as a putting track} {with incorporated means acting on the track surface for varying its topography, e.g. slope} Table games physically beneficial for the human 	67/183 67/187 67/19 67/193 67/197 67/20 67/205 67/22 69/00 69/0002 2069/0004 2069/0006	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other with all feathers made in one piece with special functions, e.g. light emission or sound generation Games using a bat {or racket} with a ball {or other body} tethered thereto {the bat having one or more spigots for catching bodies having a bore, e.g. rings} 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} Training appliances or apparatus for special sports (training of parachutists B64D 23/00) {for baseball} {specially adapted for particular training aspects} {for pitching}
65/12 65/122 65/125 65/127 67/00 67/002 2067/005	 Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force} {Hand-held mechanical projectors, e.g. for balls} {with handles or grips on both sides of the catching-throwing means, for two-handed use} {Means for throwing or catching balls, attached to the foot} Sporting games or accessories therefor, not provided for in groups A63B 1/00 - A63B 65/00 {Games using balls, not otherwise provided for} {Games similar to volleyball or basketball and played on trampolines or the like, e.g. "Spaceball" or "Aeroball"} {played in water} Special golf games, e.g. miniature golf {or golf putting games played on putting tracks; putting practice apparatus having an elongated platform as a putting track} {with incorporated means acting on the track surface for varying its topography, e.g. slope} Table games physically beneficial for the human body, modelled on outdoor sports, e.g. table tennis 	67/183 67/187 67/19 67/193 67/197 67/20 67/205 67/22 69/00 69/0002 2069/0004 2069/0006 2069/0008	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other with all feathers made in one piece with special functions, e.g. light emission or sound generation Games using a bat {or racket} with a ball {or other body} tethered thereto {the bat having one or more spigots for catching bodies having a bore, e.g. rings} 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} Training appliances or apparatus for special sports (training of parachutists B64D 23/00) {for baseball} {specially adapted for particular training aspects} {for pitching} {for batting}
65/12 65/122 65/125 65/127 67/00 67/002 2067/005 67/007 67/02 2067/025 67/04	 Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force} • {Hand-held mechanical projectors, e.g. for balls} • • {with handles or grips on both sides of the catching-throwing means, for two-handed use} • {Means for throwing or catching balls, attached to the foot} Sporting games or accessories therefor, not provided for in groups A63B 1/00 - A63B 65/00 • {Games using balls, not otherwise provided for} • {Games similar to volleyball or basketball and played on trampolines or the like, e.g. "Spaceball" or "Aeroball"} • {played in water} • Special golf games, e.g. miniature golf {or golf putting games played on putting tracks; putting practice apparatus having an elongated platform as a putting track} • {with incorporated means acting on the track surface for varying its topography, e.g. slope} • Table games physically beneficial for the human body, modelled on outdoor sports, e.g. table tennis (other table games A63F) 	67/183 67/187 67/19 67/193 67/197 67/20 67/205 67/22 69/00 69/0002 2069/0004 2069/0006 2069/0008 2069/0011	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other with all feathers made in one piece with special functions, e.g. light emission or sound generation Games using a bat {or racket} with a ball {or other body} tethered thereto {the bat having one or more spigots for catching bodies having a bore, e.g. rings} 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} Training appliances or apparatus for special sports (training of parachutists B64D 23/00) {for baseball} {specially adapted for particular training aspects} {for batting} {for batting} {Catching}
65/12 65/122 65/125 65/127 67/00 67/002 2067/005	 Ball-throwing apparatus with or without catchers {(hand-held throwing or catching aids A63B 59/20); Mechanical projectors, e.g. using spring force} {Hand-held mechanical projectors, e.g. for balls} {with handles or grips on both sides of the catching-throwing means, for two-handed use} {Means for throwing or catching balls, attached to the foot} Sporting games or accessories therefor, not provided for in groups A63B 1/00 - A63B 65/00 {Games using balls, not otherwise provided for} {Games similar to volleyball or basketball and played on trampolines or the like, e.g. "Spaceball" or "Aeroball"} {played in water} Special golf games, e.g. miniature golf {or golf putting games played on putting tracks; putting practice apparatus having an elongated platform as a putting track} {with incorporated means acting on the track surface for varying its topography, e.g. slope} Table games physically beneficial for the human body, modelled on outdoor sports, e.g. table tennis 	67/183 67/187 67/19 67/193 67/197 67/20 67/205 67/22 69/000 69/0002 2069/0004 2069/0006 2069/0008 2069/0011 69/0013	 Badminton or similar games with feathered missiles Feathered missiles Shuttlecocks with several feathers connected to each other with all feathers made in one piece with special functions, e.g. light emission or sound generation Games using a bat {or racket} with a ball {or other body} tethered thereto {the bat having one or more spigots for catching bodies having a bore, e.g. rings} 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} Training appliances or apparatus for special sports (training of parachutists B64D 23/00) {for baseball} {for batting} {for batting} {Gatching} {Baseball bases}

60,1003			20 60 10 64		
69/002	•	{for football (American-football dummies	2069/064	•	• {with pivoting handlebars}
69/0022		A63B 69/34)} {for skating}	2069/066 2069/068	•	 {with handlebars rotating about a horizontal axis} {kayaking, canoeing}
69/0024		{for hockey}	69/08	•	 {kayaking, canoeing} with water-filled pools
69/0026		• {for ice-hockey}	69/10		Swimming instruction apparatus for use without
69/0028		{for running, jogging or speed-walking (movable	07/10	•	water
037.00_0	·	endless bands $A63B 22/02$)	69/12		Arrangements in swimming pools for teaching
2069/0031		• {Speed-walking}			swimming {or for training}
2069/0033		• • {Nordic walking, i.e. using poles for walking}	69/125		• {Devices for generating a current of water in
69/0035		• {on the spot}			swimming pools}
2069/0037	•	• {safety devices, e.g. warning bells, rear-view mirrors}	69/14	•	Teaching frames for swimming {; Swimming boards}
69/0046		{for bowling}	69/16	•	for cycling {, i.e. arrangements on or for real
69/0048	•	{for mountaineering, e.g. climbing-walls, grip			bicycles}
		elements for climbing-walls}	2069/161		• {supports for the front of the bicycle}
69/0053	•	{Apparatus generating random stimulus signals	2069/162		• • {for front fork or handlebar}
		for reaction-time training involving a substantial	2069/163		• (for the front wheel)
60/0055		physical effort}	2069/164	•	• {supports for the rear of the bicycle, e.g. for the
69/0055	•	 {with means for distracting the user, e.g. visual or audio means} 	2069/165		rear forks} {rear wheel hub supports}
69/0057		{Means for physically limiting movements of body	2069/165		 {real wheel hab supports} {supports for the central frame of the bicycle, e.g.
07/0037	•	parts (A63B 23/0211 takes precedence)}	2009/100	•	for the crank axle housing, seat tube or horizontal
69/0059		• {worn by the user}			tube}
69/0062		• {Leg restraining devices}	2069/167		• {on rollers without further support}
69/0064		{Attachments on the trainee preventing falling}	2069/168		• {Force transfer through the rim of the wheel}
69/0066		{for wind-surfing}	69/18		for skiing
69/0068		{for bull-fighting, or animal-roping}	69/182		• {for cross-country-skiing (A63B 23/0417,
69/0071		{for basketball}			A63B 69/0022 take precedence)}
69/0073		{Means for releasably holding a ball in position;	2069/185		• {for ski-jumping}
		Balls constrained to move around a fixed point, e.g.	69/187		• {for water-skiing}
		by tethering}	69/20	•	Punching balls {, e.g. for boxing; Other devices for
69/0075	•	• {Means for releasably holding a ball in position			striking used during training of combat sports, e.g.
		prior to kicking, striking or the like (golf tees	60/215		bags}
2069/0077		A63B 57/10)} • {Suspending a ball on an upright stream of air or	69/215		• {Anthropomorphic devices}
2007/0011	•	water}	69/22 69/222		mounted on, or suspended from, a fixed support{suspended from a fixed support}
69/0079		• {Balls tethered to a line or cord (A63B 43/007	69/224		• {suspended from a fixed support}• {mounted on a resilient foot}
	·	takes precedence; other games using tethered	69/24		 mounted on a resident root; mounted on, or suspended from, a movable
		balls A63B 67/10; games using a bat or racket	07/24	•	support
		with a ball tethered thereto A63B 67/20)}	69/244		• {suspended from a movable support}
2069/0082		• • {with movement of the cord-attachment along	69/26		attached to the human body
		its rotational axis as a function of the number of	69/28		• Attachments located on the balls {or other
60/0004		revolutions, e.g. following a helicalmember}			training devices} at opposite points
69/0084	•	• • {the line or cord being fixed to at least two	69/30		Resilient attachments
69/0086		points} {the line or cord being attached to the user	69/305		• {Hanging heavy punching bags}
09/0080	•	(A63B 21/0608 takes precedence; punching	69/32		 with indicating devices
		balls attached to the user A63B 69/26)}	69/322	•	• • {to instruct user where to strike}
69/0088		• • {the line or cord having a handle}	69/325	•	• • {for vertical blows on a horizontal surface}
69/0091		• {Balls fixed to a movable, tiltable or flexible	69/331	•	{Breaking boards or holders therefore, i.e. devices
		arm}			for destroying exercises}
69/0093		{for surfing, i.e. without a sail; for skate or snow	69/333	•	{Fake or disarmed practise weapons, i.e. for
		boarding}			mimicking combat situations in martial arts
69/0095		{for volley-ball}	69/34		training {
69/0097	•	{Ball rebound walls (with holes or in combination	09/34	•	boxing or {wrestling or American-} football
40.17.5		with nets <u>A63B 63/00</u>)}			dummies
69/02		for fencing {, e.g. means for indicating hits}	69/36		for golf
2069/025	•	• {with conductive floor used as part of the	69/3605		• {Golf club selection aids informing player of his
60/04		detection circuit}			average or expected shot distance for each club}
69/04	•	simulating the movement of horses (toy animals for riding A63G 19/00)	69/3608		• {Attachments on the body, e.g. for measuring,
69/06		for rowing or sculling			aligning, restraining (A63B 69/0059,
2069/062		• {by pulling on a cable}			A63B 69/3673 take precedence)}
2007/002	•	• (b) paining on a capic)			

69/3614	• • {using electro-magnetic, magnetic or ultrasonic radiation emitted, reflected or interrupted by the	69/38	• for tennis {(<u>A63B 61/006</u> , <u>A63B 69/0073</u> and <u>A63B 69/0097</u> take precedence)}
69/3617	golf club}• {Striking surfaces with impact indicating means,	69/385 69/40	. {for practising the serve}. Stationarily-arranged devices for projecting balls
07/3017	e.g. markers}	09/40	{or other bodies} ({golf cups with ball ejector
69/362	{electrical or electronic}		means A63B 57/405;} traps for clay-pigeon targets F41J 9/18)
69/3621	 {Contacting or non-contacting mechanical means for guiding the swing} 	2069/401	• {substantially vertically, e.g. for baseball}
69/36211	{Mechanical guides guiding the club head end	2069/402	• • {giving spin}
(0/2/212	during the complete swing, e.g. rails} { with a flexible member fixed on the club	2069/403	• • {back or reverse spin}
69/36212	and rotating around a fixed supporting point	2069/404 2069/405	{side spin} {top spin}
	(clubs only for gymnastics or muscular	69/406	• • {top spin} • • {with rotating discs, wheels or pulleys gripping
(0/2/212	training <u>A63B 15/00</u>)}		and propelling the balls or bodies by friction}
69/36213	• • • { with arm or rod fixed on the club and rotating around a fixed supporting point }	69/407	• • {with spring-loaded propelling means}
69/3623	• • {for driving (A63B 69/3608, A63B 69/3658,	69/408 69/409	 {with rotating propelling arm}. {with pneumatic ball- or body-propelling means}
	A63B 69/3661, A63B 69/3667 and		
69/3629	A63B 69/3691 take precedence)} {Visual means not attached to the body for	71/00	Games or sports accessories not covered in groups A63B 1/00 - A63B 69/00 (starting appliances
07/3027	aligning, positioning the trainee's head or for		A63K 3/02)
	detecting head movement, e.g. by parallax}	71/0009	• {for handicapped persons}
69/3632	• • • {Clubs or attachments on clubs, e.g. for measuring, aligning (A63B 69/3614 takes	2071/0018 2071/0027	. {for wheelchair users}. {visually handicapped}
	precedence; clubs for swinging exercises in	71/0036	• {Visually handicapped} • {Accessories for stowing, putting away or
	general A63B 15/00)}	7170000	transporting exercise apparatus or sports equipment
69/3635 69/3638	 {with sound-emitting source} {Normal golf clubs with directly attached		(<u>A63B 47/00</u> , <u>A63B 55/00</u> , <u>A63B 60/56</u> take
09/3038	weights}	71/0045	precedence)}. {specially adapted for games played with rackets
69/3652	• • • {Inclined platforms for practising drives from		or bats (A63B 60/56 takes precedence)}
(0/2/55	slopes}	71/0054	• {Features for injury prevention on an apparatus,
69/3655	• • • {Balls, ball substitutes, or attachments on balls therefor}		e.g. shock absorbers (mats or the like for absorbing shocks for jumping A63B 6/00)}
69/3658	• • {Means associated with the ball for indicating or	2071/0063	• {Shock absorbers}
60/2661	measuring, e.g. speed, direction}	2071/0072	• • {Limiting the applied force, torque, movement or
69/3661	• • {Mats for golf practice, e.g. mats having a simulated turf, a practice tee or a green area}	2071/0081	speed} • {Stopping the operation of the apparatus}
2069/3664	• • • {with bristles, the length of which can be		(Protective housings covering the working parts)
60 IO 667	adjusted}		of the apparatus}
69/3667	 {Golf stance aids, e.g. means for positioning a golfer's feet} 	71/02	for large-room or outdoor sporting games
2069/367	• • {Detection of balance between both feet, i.e.	71/021 71/022	. {Stays or guy-ropes}. {Backstops, cages, enclosures or the like, e.g. for
	weight distribution}	, -, -, -	spectator protection, for arresting balls}
69/3673 69/3676	• • • {Foot inclining aids; Foot wobbling devices}	71/023	• • {Supports, e.g. poles}
09/30/0	• • {for putting (<u>A63B 69/3608</u> , <u>A63B 69/3661</u> , <u>A63B 69/3667</u> and <u>A63B 69/3697</u> take	2071/024 2071/025	 { with screws or pins in the earth} { on rollers or wheels}
	precedence)}	2071/025	{stabilised by weight}
69/3682	{Visual means not attached to the body for	2071/027	• • • {using player's own weight, e.g. on a
	aligning, positioning the trainee's head or for detecting head movement, e.g. by parallax }	- 4 (0.00	platform}
69/3685	• • • {Putters or attachments on putters, e.g. for	71/028 71/03	 {Floor sockets for removable poles}. {Athletic drills or obstacles for sport training,
	measuring, aligning (<u>A63B 69/3614</u> takes	71/03	other than foot obstacles for skipping}
69/3688	precedence)}• • {Balls, ball substitutes, or attachments on balls	71/04	. for small-room or indoor sporting games
22,2000	therefor}	71/06	• Indicating or scoring devices for games or players {,
69/3691	• • {Golf courses; Golf practising terrains having	2071/0602	or for other sports activities} • {Non-electronic means therefor}
	a plurality of driving areas, fairways, greens (special golf games, e.g. miniature golf,	71/0605	{Decision makers and devices using detection
	A63B 67/02; mats for simulating golf greens	F1 /0 < 0.0	means facilitating arbitration}
(0/2/04	A63B 69/3661)}	71/0608 2071/0611	 {using mechanical, i.e. non-electrical means} {Automatic tennis linesmen, i.e. in-out
69/3694 69/3697	 {for driving only} {with putting taking place on a green other than	20/1/0011	detectors}
37,3071	the target green}	2071/0613	{Automatic net-fault detectors}
		71/0616	 {Means for conducting or scheduling competition, league, tournaments or rankings}
			competition, reague, tournaments of fankings

71/0619	• • {Displays, user interfaces and indicating devices,	71/1216	• • • {for the genital area}
	specially adapted for sport equipment, e.g. display	71/1225	• • {for the legs, e.g. thighs, knees, ankles, feet}
	mounted on treadmills}	2071/1233	{for the hip}
71/0622	{Visual, audio or audio-visual systems for	2071/1241	• • • {for the thigh}
	entertaining, instructing or motivating the user}	2071/125	• • • {for the knee}
2071/0625	{Emitting sound, noise or music}	2071/1258	• • • {for the shin, e.g. shin guards}
2071/0627	• • • • {when used improperly, e.g. by giving a	2071/1266	{for the calf}
	warning}	2071/1275	• • • {for the ankle}
2071/063	{Spoken or verbal instructions}	2071/1283	• • • {for the foot}
2071/0633	{ without electronic means }	71/1291	• • {for the neck}
2071/0636	{3D visualisation}	71/14	• • for the hands, e.g. baseball, boxing or golfing
2071/0638	• {Displaying moving images of recorded environment, e.g. virtual environment}		gloves (archer's finger tabs <u>F41B 5/1473</u>)
2071/0641	• • • • { with a marker advancing in function of	71/141	• • {in the form of gloves}
2071/0011	the exercise}	71/143	{Baseball or hockey gloves}
2071/0644		71/145	{Boxing gloves}
	controlled by the user's performance}	71/146	{Golf gloves}
2071/0647		71/148	• • • • {Gloves for bowling and other ball games}
2071/065	{Visualisation of specific exercise parameters}		
	• • • {Visualisation or indication relating	-	
2071/0002	to symmetrical exercise, e.g. right-left	2102/00	Application of clubs, bats, rackets or the like to the
	performance related to spinal column}	2102/00	sporting activity {; particular sports involving the
2071/0655	{Tactile feedback}		use of balls and clubs, bats, rackets, or the like}
2071/0658	{Position or arrangement of display}		
2071/0661	{arranged on the user}		NOTE
2071/0663	• • • • {worn on the wrist, e.g. wrist bands}		A63B 2102/00 corresponds to IPC A63B 102/00.
	• • • {worn on the head or face, e.g. combined		A63B 2102/00 is an indexing scheme for all
	with goggles or glasses}		applicable areas of <u>A63B</u> .
71/0669	• • • {Score-keepers or score display devices}	2102/02	. Tennis
71/0672	• • • {using non-electronic means}	2102/04	. Badminton
2071/0675	{Input for modifying training controls during	2102/06	. Squash
	workout}	2102/065	{Racketball}
2071/0677	{Input by image recognition, e.g. video	2102/08	• Paddle tennis, padel tennis or platform tennis
	signals}	2102/10	Battledore
2071/068	{Input by voice recognition}	2102/12	• Hanetsuki
2071/0683	{Input by handheld remote control}	2102/14	• Lacrosse
71/0686	• • {Timers, rhythm indicators or pacing apparatus	2102/16	Table tennis
	using electric or electronic means}	2102/18	Baseball, rounders or similar games
2071/0688	• • • {using non-electronic means, e.g. mechanical,	2102/182	• • {Softball}
	visual, acoustic or tactile means}	2102/184	• {Rounders}
2071/0691	• • {Maps, e.g. yardage maps or electronic maps}	2102/20	. Cricket
2071/0694	{Visual indication, e.g. Indicia}	2102/20	• {Field} hockey
71/0697	{Reservation devices}	2102/24	• Ice hockey
71/08	• Body-protectors for players or sportsmen {, i.e.	2102/24	Hurling
	body-protecting accessories affording protection of	2102/28	Bandy
	body parts against blows or collisions} (protective	2102/28	Floorball
	clothing or garments for sporting purposes		
71 /001	A41D 13/00)	2102/32	Golf Polo
71/081	• • {fluid-filled, e.g. air-filled}	2102/34	
2071/083	• • • {using bubble wrap}	2102/36	• Croquet
71/085	• • {Mouth or teeth protectors (<u>A63B 71/081</u> takes	2102/38	. Gateball
2071/096	precedence)}	2208/00	Characteristics or parameters related to the user
2071/086	{Mouth inserted protectors with breathing		or player (measuring physical characteristics of the
2071/000	holes}		user <u>A63B 2230/00</u>)
2071/088	for the head ((A63B 71/081 takes precedence)):	2208/02	• posture
71/10	• • for the head ({A63B 71/081 takes precedence }; in the form of caps or hats A42B 1/08; helmets	2208/0204	Standing on the feet
	A42B 3/00)	2208/0209	on a single foot
2071/105	A42B 3/00) {Fencing mask}	2208/0214	Kneeling
71/12	 { Fencing mask} for the body or the legs {, e.g. for the shoulders	2208/0219	on hands and knees
/1/14	(A63B 71/081 takes precedence)	2208/0223	Squatting
2071/1208	• • {for the breast and the abdomen, e.g. breast	2208/0228	Sitting on the buttocks
20/1/1200	plates}		in 90/90 position, like on a chair
	Piaceoj		-

2208/0238 2208/0242	with stretched legs, like on a bed Lying down	2220/00	Measuring of physical parameters relating to sporting activity
2208/0247	with legs in a kneeled 90/90 position		NOTE
2208/0252	supine		
2208/0257	prone		When classifying in this group, the purpose of the measurement takes precedence over the measuring
2208/0261	using trunk supports resisting forward motion of user		method or device
2208/0266	on the side	2220/05	Image processing for measuring physical parameters
2208/0271	Standing on the shoulders or the neck	2220/10	• Positions
2208/0276	Standing on the head	2220/12	Absolute positions, e.g. by using GPS
2208/028	Standing on the hands	2220/13	Relative positions
2208/0285	Hanging	2220/14	Geo-tagging, e.g. for correlating route or track
2208/029	upright		location data with specific information related to
2208/0295	• on hands and feet (for push-ups A63B 23/1236)	2220/16	that specific location
2208/03	• the user being in water	2220/16	. Angular positions
2208/05	the user being at least partly surrounded by a pressure different from the atmospheric pressure	2220/17	Counting, e.g. counting periodical movements, revolutions or cycles, or including further data
2208/053	higher pressure		processing to determine distances or speed
2208/055	. lower pressure	2220/18	Inclination, slope or curvature
2208/030	specially adapted for children	2220/20	Distances or displacements
2208/14	specially adapted for animals	2220/22	Stride length
		2220/24	Angular displacement
2209/00	Characteristics of used materials	2220/30	. Speed
2209/02	with reinforcing fibres, e.g. carbon, polyamide	2220/31	Relative speed
	fibres	2220/34	Angular speed
2209/023	• Long, oriented fibres, e.g. wound filaments,	2220/35	Spin
2200/026	woven fabrics, mats . Ratio fibres-total material	2220/36	Speed measurement by electric or magnetic
2209/026 2209/08			parameters
2209/08	magneticwith adhesive type surfaces, i.e. hook and loop-type	2220/40	Acceleration
2207/10	fastener	2220/44	Angular acceleration
2209/14	with form or shape memory materials	2220/50	Force related parameters
2209/18	biodegradable	2220/51	Force
	•	2220/52	Weight, e.g. weight distribution
2210/00	Space saving	2220/53	Force of an impact, e.g. blow or punch
2210/02	• incorporated in chairs	2220/54	Torque
2210/04	• incorporated in beds, sofas	2220/56	. Pressure
2210/06	• incorporated in cabinets	2220/58	Measurement of force related parameters by electric or magnetic means
2210/10	• specially constructed to fit in the corner of a room	2220/62	Time or time measurement used for time reference,
2210/50 2210/52	Size reducing arrangements for stowing or transport Frame members linked by elastic means when	2220/02	time stamp, master time or clock signal
2210/32	disassembled	2220/64	• Frequency, e.g. of vibration oscillation
2210/54	Foldable elastic frame members automatically	2220/70	Measuring or simulating ambient conditions, e.g.
2210/31	resuming their expanded state when released		weather, terrain or surface conditions
2210/56	• electrically folded and erected	2220/72	Temperature
2210/58	slideably retracted in a housing when not in use	2220/73	Altitude
		2220/74	Atmospheric pressure
2213/00	Exercising combined with therapy	2220/75	Humidity
2213/001	with radiation therapy Infrared	2220/76	Wind conditions
2213/002 2213/003	. Ultraviolet	2220/78	Surface covering conditions, e.g. of a road surface
2213/003	with electrotherapy	2220/80	Special sensors, transducers or devices therefor
2213/004	• with respiratory gas delivering means, e.g. O ₂	2220/801	Contact switches
2213/005	 with respiratory gas derivering means, e.g. O₂ under hypoxy conditions, i.e. oxygen supply 	2220/802	Ultra-sound sensors
2213/000	subnormal	2220/803	Motion sensors
2213/007	combined with magnetotherapy	2220/805	Optical or opto-electronic sensors
2213/007	combined with ultrasound therapy	2220/806	Video cameras
	••	2220/807	Photo cameras
2214/00	Training methods	2220/808	Microphones
		2220/83	characterised by the position of the sensor
		2220/833	Sensors arranged on the exercise apparatus or sports implement
		2220/836	sports implement Sensors arranged on the body of the user
		2220/030	Sensors arranged on the body of the user

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
2225/05	with suction cups	2230/208	used as a control parameter for the apparatus
2225/055	used for fixing	2230/30	• blood pressure (A63B 2230/04 takes precedence)
2225/035	with writing point	2230/305	used as a control parameter for the apparatus
2225/09	Adjustable dimensions		(A63B 2230/045 takes precedence)
2225/093	Height	2230/40	 respiratory characteristics
2225/095	automatically adjusted according to	2230/405	used as a control parameter for the apparatus
2223/090	anthropometric data of the user	2230/42	rate
2225/10	Multi-station exercising machines	2230/425	used as a control parameter for the apparatus
2225/102	having a common resisting device	2230/43	Composition of exhaled air
2225/105	each station having its own resisting device, e.g.	2230/431	used as a control parameter for the apparatus
2223/103	for training multiple users simultaneously	2230/433	partial CO ₂ value
2225/107	Resisting devices being of the same kind	2230/435	used as a control parameter for the apparatus
2225/107	specially adapted to be transported on a trailer	2230/436	partial O ₂ value
2225/11	with mirrors	2230/438	used as a control parameter for the apparatus
2225/12	with identification means that can be read by	2230/50	• temperature
4443/13	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
2223/20	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
2223/30	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	2230/703	calorie expenditure
2225/605	Floating	2230/75	used as a control parameter for the apparatus
2225/603	Inflatable	2230/133	used as a control parameter for the apparatus
2225/64	Heated	2243/00	Specific ball sports not provided for in
2225/66	. Cooled		<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 A63B 2243/007)
		2243/0033	Handball
2225/685	for electronic devices, e.g. phone, PDA, GPS device, notebook	2243/0037	Basketball
2225/687		2243/0054	Bowling, i.e. ten-pin bowling
	. for others, e.g. keys, wallets, books	2243/0058	Bowls, crown green bowling
2225/70	. Coin-operated	2243/0062	• Petanque
2225/72	Means preventing unauthorised use, e.g. by lowering a tennis net	2243/0066	Rugby; American football
2225/74	_	2243/007	American football
2225/74	with powered illuminating means, e.g. lights with means enabling use in the dark, other than	2243/0095	. Volleyball
2225/76	powered illuminating means		•
	powered munimating means	2244/00	Sports without balls
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
		2244/084	Triple jump
2230/045	used as a control parameter for the apparatus		
2230/045 2230/06	used as a control parameter for the apparatus heartbeat rate only	2244/085	Pole vaulting
	heartbeat rate only	2244/085 2244/087	Pole vaultingwithout take off run
2230/06	heartbeat rate onlyused as a control parameter for the apparatus		_
2230/06 2230/062	heartbeat rate onlyused as a control parameter for the apparatuswithin a certain range	2244/087	without take off run
2230/06 2230/062 2230/065 2230/067	 heartbeat rate only used as a control parameter for the apparatus within a certain range used as a control parameter for the apparatus 	2244/087 2244/088	without take off run hurdling
2230/06 2230/062 2230/065 2230/067 2230/08	 heartbeat rate only used as a control parameter for the apparatus within a certain range used as a control parameter for the apparatus other bio-electrical signals 	2244/087 2244/088 2244/09	without take off runhurdlingWeight-lifting
2230/06 2230/062 2230/065 2230/067 2230/08 2230/085	 heartbeat rate only used as a control parameter for the apparatus within a certain range used as a control parameter for the apparatus other bio-electrical signals used as a control parameter for the apparatus 	2244/087 2244/088 2244/09 2244/10	without take off runhurdlingWeight-liftingCombat sports
2230/06 2230/062 2230/065 2230/067 2230/08	 heartbeat rate only used as a control parameter for the apparatus within a certain range used as a control parameter for the apparatus other bio-electrical signals 	2244/087 2244/088 2244/09 2244/10 2244/102	 without take off run hurdling Weight-lifting Combat sports Boxing

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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