

Title (en)  
ROTATION EXERCISING BALL STRUCTURE

Title (de)  
ROTATIONSÜBUNGSBALLSTRUKTUR

Title (fr)  
STRUCTURE DE BALLON D'EXERCICE ROTATIF

Publication  
**EP 4299143 A1 20240103 (EN)**

Application  
**EP 23177852 A 20230607**

Priority  
TW 111123855 A 20220627

Abstract (en)  
[origin: TW202400273A] A fitness ball structure is composed of two shell bodies to form a hollow sphere. The hollow sphere is internally provided with a spindle. The center of the spindle is radially extended with at least one rotating member. The rotating member is further combined with a counterweight body in a form of a radial arc-shaped piece at one end that is not connected to the spindle, and rotates radially and centrifugally in the hollow sphere by taking the spindle as the axis. Two ends of the hollow sphere are internally provided with a first machine board casing and a second machine board casing, respectively. The first machine board casing is internally combined with a Bluetooth transmission device. The Bluetooth transmission device is internally combined with a Hall sensor. When the spindle rotates, data information regarding rotation of two magnets at one end of the spindle will be transmitted to the Bluetooth transmission device through the Hall sensor. Accordingly, when the fitness ball is swung with force, the counterweight body will be swung more easily and the centrifugal force of the swing will be significantly increased, so that various values, such as the length of time used by a user, the number of swings, or the consumed body energy, can be transmitted to an external portable electronic device through the Bluetooth transmission device for being recorded.

IPC 8 full level  
**A63B 21/00** (2006.01); **A63B 21/22** (2006.01); **A63B 23/035** (2006.01)

CPC (source: EP)  
**A63B 21/0004** (2013.01); **A63B 21/00061** (2013.01); **A63B 21/22** (2013.01); **A63B 21/222** (2015.10); **A63B 23/03508** (2013.01); **A63B 23/03525** (2013.01); **A63B 21/4035** (2015.10); **A63B 23/08** (2013.01); **A63B 2220/89** (2013.01); **A63B 2225/20** (2013.01); **A63B 2225/50** (2013.01)

Citation (applicant)  
US 2022193478 A1 20220623 - TSAI YU-LUN [TW]

Citation (search report)

- [Y] US 4640508 A 19870203 - ESCHER JAMES C [US]
- [Y] US 2007207899 A1 20070906 - CHUANG YUN Y [TW], et al
- [Y] US 6053846 A 20000425 - LIN CHIEN-DER [TW]
- [Y] US 2016367852 A1 20161222 - CHUANG PEI-SUNG [TW]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
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DOCDB simple family (application)  
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