

Title (en)
Progressive resistance system for an exercise device

Title (de)
Progressives Widerstandssystem für eine Übungsvorrichtung

Title (fr)
Système de résistance progressive pour dispositif d'exercice

Publication
EP 2859922 A1 20150415 (EN)

Application
EP 13187846 A 20131009

Priority
EP 13187846 A 20131009

Abstract (en)
A progressive resistance device is provided having a cylinder having an outer wall which defines an inner chamber. The cylinder is carried on an axle and is rotatable thereabout. An eccentric axle surrounds the axle and is rotatable relative the axle. A magnet carrier partially encircles the eccentric axle and carries a magnet. A bearing is nested between the magnet carrier and the eccentric axle. The magnet carrier is rotatable about the eccentric axle on an axis which is eccentric to the axle's axis, whereby the distance between the magnet and the outer wall is variable as defined by the rotative position of said housing relative said outer wall, which rotative position is governed by the speed of rotation of the cylinder. The progressive resistance device described herein is adapted for use as a roller on a bicycle trainer.

IPC 8 full level
A63B 69/16 (2006.01); **A63B 21/005** (2006.01)

CPC (source: EP)
A63B 21/0051 (2013.01); **A63B 69/16** (2013.01); **A63B 2069/167** (2013.01); **A63B 2069/168** (2013.01)

Citation (applicant)
• US 6857992 B1 20050222 - KOLDA CLINT D [US], et al
• US 7011607 B2 20060314 - KOLDA CLINT D [US], et al
• US 7585258 B2 20090908 - WATSON EDWARD M [US], et al
• US 6964633 B2 20051115 - KOLDA CLINT D [US], et al
• US 6042517 A 20000328 - GUNTHER JOHN A [US], et al

Citation (search report)
• [A] US 2005064999 A1 20050324 - QIU RUI-ZUNG [TW]
• [A] EP 0621058 A1 19941026 - LIFE FITNESS [US]
• [A] WO 2010104405 A2 20100916 - HOLMES SOLUTIONS LTD [NZ], et al
• [A] EP 1683550 A1 20060726 - LANG BERNHARD [DE]

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 MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
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