

Title (en)
EXERCISE DEVICE

Title (de)
ÜBUNGSGERÄT

Title (fr)
MACHINE D'EXERCICE

Publication
EP 2771079 A1 20140903 (FR)

Application
EP 12794381 A 20121026

Priority
• FR 1159739 A 20111027
• FR 2012052466 W 20121026

Abstract (en)
[origin: WO2013060999A1] The invention relates to an exercise device comprising a biasing element intended to be moved by the force of a user, an electric actuator (1) comprising a mobile part, the biasing element being connected to the mobile part and the biasing element being able to move the mobile part, a computer (12) able to generate a control signal for the electric actuator, an acceleration sensor coupled to the mobile part in order to measure the acceleration of the mobile part and to transmit the measured acceleration to the computer (12), the electric actuator being able to exert a force on the biasing element by way of the mobile element in response to the control signal, characterized in that the computer (12) is able to generate the control signal depending on the measured acceleration such that the force exerted by the electric actuator (1) includes a contribution of artificial inertia substantially proportional to the acceleration measured by the acceleration sensor.

IPC 8 full level
A63B 21/005 (2006.01); **A63B 22/02** (2006.01); **A63B 23/04** (2006.01); **A63B 24/00** (2006.01); **A63B 69/00** (2006.01); **A63B 69/06** (2006.01); **A63B 69/16** (2006.01)

CPC (source: EP US)
A63B 21/005 (2013.01 - EP US); **A63B 22/0235** (2013.01 - EP US); **A63B 23/0405** (2013.01 - EP US); **A63B 24/0087** (2013.01 - EP US); **A63B 69/00** (2013.01 - EP US); **A63B 69/06** (2013.01 - EP US); **A63B 69/16** (2013.01 - EP US); **A63B 69/0028** (2013.01 - EP US); **A63B 2023/0411** (2013.01 - EP US); **A63B 2024/0093** (2013.01 - EP US); **A63B 2069/062** (2013.01 - EP US); **A63B 2220/40** (2013.01 - EP US); **A63B 2220/80** (2013.01 - EP US); **A63B 2220/833** (2013.01 - EP US)

Citation (search report)
See references of WO 2013060999A1

Cited by
CZ308177B6

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

DOCDB simple family (publication)
WO 2013060999 A1 20130502; AU 2012328194 A1 20140529; AU 2012328194 B2 20180412; CA 2853540 A1 20130502; CA 2853540 C 20190108; CN 103945904 A 20140723; CN 103945904 B 20160629; DK 2771079 T3 20160502; EP 2771079 A1 20140903; EP 2771079 B1 20160203; ES 2570329 T3 20160517; FR 2981857 A1 20130503; FR 2981857 B1 20141121; US 2014315689 A1 20141023

DOCDB simple family (application)
FR 2012052466 W 20121026; AU 2012328194 A 20121026; CA 2853540 A 20121026; CN 201280052998 A 20121026; DK 12794381 T 20121026; EP 12794381 A 20121026; ES 12794381 T 20121026; FR 1159739 A 20111027; US 201214354776 A 20121026