

Title (en)
PELVIC MUSCLE TRAINER

Title (de)
BECKENMUSKEL-TRAININGSGERÄT

Title (fr)
DISPOSITIF D'ENTRAÎNEMENT DES MUSCLES PELVIENS

Publication
EP 2598215 A4 20140129 (EN)

Application
EP 11813162 A 20110728

Priority
• US 36842110 P 20100728
• US 41891310 P 20101202
• US 36843110 P 20100728
• US 2011045667 W 20110728

Abstract (en)
[origin: WO2012016005A2] A training device is disclosed for exercising the pubococcygeal or pelvic floor muscles, for example in the treatment of incontinence. The device includes a cylindrical, deformable probe for insertion into the vagina or rectum of a user. The probe is connected to a pressure transducer, which detects the pressure applied to the probe by contraction of the pelvic floor muscles and displays a pressure indicator to the user to help direct the contraction of the appropriate muscles. The pressure indicator may take the form of a series of nested figures, such as curves or concentric semi-circles, that incrementally converge toward a common point as pressure on the probe increases. The nested figures incrementally retreat from the common point as pressure on the probe decreases. The training unit guides a user through an exercise routine by tracking the overall exercise time and the timing between flexing and relaxation cycles. The training unit can include a controller, such as a microcontroller, that is coupled to the inflatable probe for detecting the pressure within the probe. The controller tracks the timing of exercises performed by the user and guides the user through alternating cycles of muscular contraction and relaxation to provide a safe and effective biofeedback regimen

IPC 8 full level
A63B 23/20 (2006.01); **A61H 19/00** (2006.01); **A61M 29/02** (2006.01)

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Citation (search report)
• [XY] WO 9926699 A1 19990603 - SAWCHUCK DIANE J [CA], et al
• [XY] US 2006036188 A1 20060216 - HOFFMAN CRAIG A [US], et al
• [X] US 2010174218 A1 20100708 - SHIM YOUNGTACK [CA]
• [X] GB 2444030 A 20080528 - MATCHILSKAIAI OLGA [GB]
• [X] WO 2007011118 A1 20070125 - KIM KYUNGIL [KR]
• [X] US 5674238 A 19971007 - SAMPLE STEVEN B [US], et al
• [X] WO 2009064036 A1 20090522 - LEE SIN HYEONG [KR]
• See references of WO 2012016005A2

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 2012016005 A2 20120202; WO 2012016005 A3 20120719; EP 2598215 A2 20130605; EP 2598215 A4 20140129;
US 2013130871 A1 20130523

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