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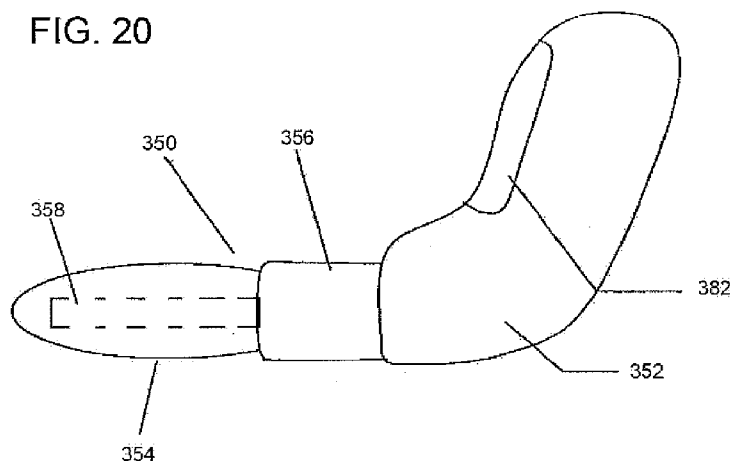
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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

[Continued on next page]

(54) **Title:** PELVIC MUSCLE TRAINER**FIG. 20**

(57) **Abstract:** 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.

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A63B 23/20; G01L 19/00; A61F 2/02; A61B 10/00; A61M 25/00; A61B 18/18; A61B 1/04; A61B 5/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: a pelvis floor muscle, a inflatable prove, pressure transducer, a training unit, flexing and relaxation cycles, a controller, a leak monitoring system, flexing and relaxation cycle, a reference pressure, a wireless transmitter, a replacement indicator sphincter or urinary control a biofeedback device

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 06063045A A (WAX; MICHAEL S. et al.) 16 May 2000 See abstract, claims 1-17, figure 1	1-20
A	US 2010-0114087 A1 (EDWARDS STUART D. et al.) 06 May 2010 See abstract, claims 1-8, figure 27	1-20
A	US 2005-0215858 A1 (WILLIAM VAIL) 29 September 2005 See abstract, claims 1-5, figure 1	1-20
A	US 05483832A A (PAUSER; ALEXANDER et al.) 16 January 1996 See abstract, claims 1-15, figure 1	1-20
A	US 2004-0133068 A1 (GARY MILLER) 08 July 2004 See abstract, claims 1-6, figure 4	1-20



Further documents are listed in the continuation of Box C.



See patent family annex.

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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