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(71) Applicant *(for all designated States except US)*: **SARIS CYCLING GROUP, INC.** [US/US]; 5253 Verona Road, Madison, WI 53711 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **LASSANSKE, Todd, W.** [US/US]; 1 Sonora Court, Madison, WI 53719 (US). **AMBROSINA, Jesse, E.** [US/US]; 11 Boxford Road, Topsfield, MA 01983 (US).

(74) Agent: **McCONNELL, Andrew, S.**; Boyle, Fredrickson, Newholm, Stein & Gratz S.C., 250 East Wisconsin Avenue, Suite 1030, Milwaukee, WI 53202 (US).

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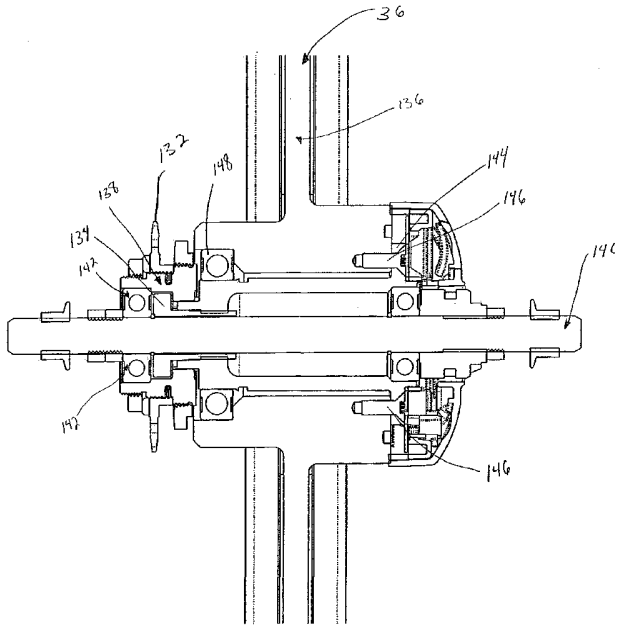
[Continued on next page]

(54) Title: EXERCISE DEVICE WITH POWER INPUT MEASURING CAPABILITY AND USER APPLIED RESISTANCE MECHANISM



(57) Abstract: An exercise device includes a stationary support structure and a power input arrangement supported by the support structure, which are configured such that the user applies input power to the exercise device at the power input arrangement. A rotary member is supported by the support structure, and a power sensing is driven into rotation by input power applied by the user. Input power applied by the user is transferred through the power sensing arrangement to impart rotation to the rotary member. The rotary member is in the form of a rotary resistance-providing member, which is rotatably supported on the support structure by the power sensing arrangement. In one form, the power sensing arrangement is driven into rotation via a chain drive system interposed between the power input arrangement and the rotary power sensing arrangement. The power input arrangement may be in the form of a pedal arrangement, and the rotary resistance-providing member may be in the form of a flywheel rotatably mounted to the stationary support structure via the power sensing arrangement. A user-operated resistance arrangement acts on the flywheel to resist rotation of the flywheel. The user-operated resistance arrangement may be in the form of a caliper arrangement that selectively engages the flywheel in response to user actuation. Representatively, the support structure may be in the form of a stationary bicycle frame that includes a user-supporting seat and a set of handlebars.

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 5 027 303 A (WITTE ET AL) 25 June 1991 (1991-06-25) column 3, line 3 - line 27; figures 1,2	1-3, 5-13, 15-18,20 4,14,19, 21-24
Y	US 6 418 797 B1 (AMBROSINA JESSE ET AL) 16 July 2002 (2002-07-16) cited in the application column 6, line 28 - line 42; figures 1,3-6	4,14, 21-24
Y	WO 99/59681 A (ROCK MERCHANTING LIMITED; JACKSON, DAVID; JOHNSON, DAVID) 25 November 1999 (1999-11-25) figures 1,3	19
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[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

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European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Michels, N

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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