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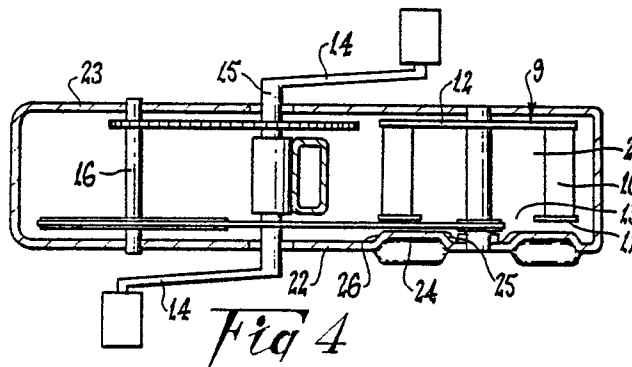
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54 **Energy absorbers for exercisers.**

57 An energy absorber for use in ergometric and/or exercise apparatus. The absorber includes a centrifugal-type fan (9) which is mounted within a housing (8) so as to be rotatable relative to the housing (8) and thereby displace air, or other fluid, contained in the housing (8). The energy absorbance function is directly related to the capacity of the fan (9) to displace air and that is optimised by providing baffle means (24,29) within the housing (8) which influences air displaced by the fan (9) to return to the fan inlet (13) for recirculation through the fan (9). The baffle means (24,29) may take the form of stator blades (24) or ducting (29) within the housing (8). According to another aspect, the housing (108) is rotatably mounted on a support (133) so as to tend to turn in response to torque applied by air displaced by the relatively rotating fan (109). An arm (137) extends between the housing (108) and the support (133) to prevent such turning movement of the housing (108) and the turning force is reacted into a load cell (139) which is connected to that arm (137) and which responds to the reacted force in a manner representative of the magnitude of that force.



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DOCUMENTS CONSIDERED TO BE RELEVANT			EP 86304002.8
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
A	US - A - 4 082 264 (SANTOS) * Fig. 1,3,5; abstract; claims * --	1,2,3, 11	A 63 B 21/00 A 63 B 23/04 A 63 B 69/16
A	FR - A - 1 498 606 (FRANCO) * Totality * --	1,11	
A	US - A - 3 494 616 (PARSONS) * Fig. 1,2; claim; column 2, lines 52-72; column 3, lines 1-30 * --	1,11	
A	DE - A - 2 113 749 (WEIDT) * Fig. 1,2,5; claims 1,6,10, 15; page 3, lines 5-9 * --	1,11	
A	DE - B - 1 805 329 (BERWICK) * Fig. 2,4; claims * -----	1,3	TECHNICAL FIELDS SEARCHED (Int. Cl.4) A 63 B 21/00 A 63 B 23/00 A 63 B 69/00 F 16 D 57/00
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 25-08-1987	Examiner SCHÖNWÄLDER
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	