

Title (en)  
ENERGY ABSORBERS FOR EXERCISERS

Publication  
**EP 0203804 A3 19871202 (EN)**

Application  
**EP 86304002 A 19860527**

Priority  
AU 75685 A 19850527

Abstract (en)  
[origin: EP0203804A2] 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.

IPC 1-7  
**A63B 21/00**; **A63B 23/04**; **A63B 69/16**

IPC 8 full level  
**A63B 23/04** (2006.01); **A63B 21/008** (2006.01); **A63B 22/06** (2006.01)

CPC (source: EP)  
**A63B 21/00065** (2013.01); **A63B 21/0088** (2013.01); **A63B 21/4049** (2015.10)

Citation (search report)

- US 4082264 A 19780404 - SANTOS JAMES P
- FR 1498606 A 19671020
- US 3494616 A 19700210 - PARSONS BILLIE D
- DE 2113749 A1 19720928 - WEIDT CARL ADOLF
- DE 1805329 B2 19721005

Cited by  
GB2380420A; US4932650A; EP0803270A3; EP0312207A1; EP0360827A4; WO0076592A1; WO9960927A1; US6561955B1; US7201708B2

Designated contracting state (EPC)  
DE FR GB SE

DOCDB simple family (publication)  
**EP 0203804 A2 19861203**; **EP 0203804 A3 19871202**; JP S61272066 A 19861202

DOCDB simple family (application)  
**EP 86304002 A 19860527**; JP 12205986 A 19860527