

Title (en)
Exercise apparatus.

Title (de)
Übungsgerät.

Title (fr)
Appareil d'exercice.

Publication
EP 0051377 A1 19820512 (EN)

Application
EP 81304852 A 19811019

Priority
US 19879580 A 19801020

Abstract (en)
An exercise apparatus equipped with an electrically controlled brake (24) may be used for providing resistance force to movement of a holder bar (18) by a user. A rotational transducer (28) is provided to control the brake (24) so that the magnitude of resistance force is varied with movements made by the user. A direction sensing and control circuit is provided to vary the amount of resistance force according to the direction of movement by the user.

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

IPC 8 full level
A63B 21/00 (2006.01); **A63B 21/005** (2006.01); **A63B 23/04** (2006.01); **A63B 24/00** (2006.01)

CPC (source: EP)
A63B 21/0056 (2013.01)

Citation (search report)

- US 3953025 A 19760427 - MAZMAN MARTIN S
- DE 230504 C
- FR 2045215 A5 19710226 - VACHER JACQUES

Cited by
US4720099A; USRE34959E; GB2124916A; US4778175A; US5256117A; EP0183635A3; US4726582A; US4569518A

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EP 81304852 A 19811019; AT 81304852 T 19811019; AU 7656381 A 19811019; BR 8106729 A 19811019; DE 3176107 T 19811019; JP 16851481 A 19811019