

Title (en)
Gymnastic apparatus

Title (de)
Gymnastikgerät

Title (fr)
Appareil de gymnastique

Publication
EP 0829277 A3 19990804 (DE)

Application
EP 97890177 A 19970909

Priority
AT 161096 A 19960911

Abstract (en)
[origin: EP0829277A2] The handles (2) are moved against spring action towards a supporting bar (3) coupled to them by a telescopic rod (1). Two or more springs (4-6) with different spring constants are supported on components (1a,1b) of the rod which are movable in relation to each other, and enclose the rod on the outside. The springs can be made of elastomer material mounted in series and in ascending order of stiffness, and they can be colour-coded. The top component of the rod can be interrupted by an elastic body, typically made of hard rubber, allowing the rod to be swung out to the side.

IPC 1-7
A63B 21/05

IPC 8 full level
A63B 21/05 (2006.01); **A63B 21/02** (2006.01); **A63B 23/02** (2006.01)

CPC (source: EP)
A63B 21/022 (2015.10); **A63B 21/05** (2013.01); **A63B 23/0211** (2013.01); **A63B 23/0227** (2013.01); **A63B 23/0233** (2013.01)

Citation (search report)

- [A] US 4351527 A 19820928 - CRISP JR MELVIN L
- [A] DE 2051786 A1 19720504
- [A] US 4775149 A 19881004 - WILSON ROBERT M [US]
- [A] US 3761083 A 19730925 - BUCHNER N
- [A] DE 2335544 A1 19750130 - BEILHACK FEUERLAND WERK
- [A] EP 0215467 A2 19870325 - TMC CORP [CH]

Cited by
US7762937B2; WO2006090135A1

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 0829277 A2 19980318; EP 0829277 A3 19990804

DOCDB simple family (application)
EP 97890177 A 19970909