

Title (en)  
Multi-functional physical exercise device

Title (de)  
Mehrzweckübungsgerät

Title (fr)  
Dispositif polyvalent d'exercices physiques

Publication  
**EP 0688584 B1 19961127 (EN)**

Application  
**EP 94301999 A 19940321**

Priority  
• EP 94301999 A 19940321  
• AU 5940994 A 19940412

Abstract (en)  
[origin: EP0688584A1] A multi-functional physical exercise apparatus includes a small rod (24) on which a large hollow rod (14) is sleeved slidably. A first cover unit (40) is connected to the rod (14), while a second cover unit (40a) is connected to the rod (24). Each cover unit (40,40a) is provided with a self-supporting unit (44,44a). A coiled spring (30) is sleeved on and coupled to the rods (14,24) and is located between the cover units (40,40a). A small hollow first cylinder (10) is sleeved on the spring (30) and extends from the cover unit (40). A small hollow second cylinder (20) is sleeved on the spring (30) and extends from the cover unit (40a). A large hollow cylinder (50) is sleeved rotatably on and is movable relative to the cylinders (10,20). The cylinder (50) has an annular outer surface provided with a plurality of massaging projections (53), an open first end provided with an inwardly extending flange member (51) which contacts slidably an outer surface of the cylinder (10) and which engages at least one outwardly extending engaging member (12) provided at a distal end of the cylinder (10), and an open second end provided with an inwardly extending flange member (61) which contacts slidably an outer surface of the cylinder (20) and which engages at least one outwardly extending engaging member (22) provided at a distal end of the cylinder (20). <IMAGE>

IPC 1-7  
**A63B 23/14**; **A63B 21/045**

IPC 8 full level  
**A63B 21/05** (2006.01); **A63B 23/14** (2006.01); **A61H 15/00** (2006.01); **A63B 21/02** (2006.01)

CPC (source: EP)  
**A63B 21/00043** (2013.01); **A63B 21/05** (2013.01); **A63B 23/14** (2013.01); **A61H 15/00** (2013.01); **A63B 21/023** (2013.01)

Cited by  
CN114028761A; US2018263842A1; KR20020057846A; US2018263843A1; KR101711943B1; US2023191181A1; WO2014207955A1; WO2011057013A3

Designated contracting state (EPC)  
AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)  
**EP 0688584 A1 19951227**; **EP 0688584 B1 19961127**; AU 652115 B3 19940811

DOCDB simple family (application)  
**EP 94301999 A 19940321**; AU 5940994 A 19940412