

Title (en)
Cushioning mechanism for a treadmill

Title (de)
Dämpfungsmechanismus für ein Laufband

Title (fr)
Mécanisme d'amortissement pour tapis roulant

Publication
EP 2033690 A1 20090311 (EN)

Application
EP 07017525 A 20070907

Priority
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Abstract (en)
A cushioning mechanism for a treadmill having a pair of ##-shaped rigid connection elements (30) and a pair of pivotal rigid cushioning elements (40) that are interposed between the bottom surface of both sides of the platform frame (20) and the base bars (12). The pivotal rigid cushioning element (40) includes a guidewheel (41) at one end thereof. In this way, the guidewheel (41) is movable on the surface of the base bar (12) when the platform frame (20) is moved up and down by the external forces applied to it. Accordingly, the cushioning and restoring effects can be achieved. Moreover, a resistance-adjusting element is provided at the bottom of the guidewheel (41). A free adjustment of the cushioning force may be achieved by the inclination of the resistance-adjusting element.

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A63B 22/02 (2013.01); **A63B 22/0214** (2015.10); **A63B 22/0228** (2015.10); **A63B 22/0235** (2013.01)

Citation (applicant)
• US 6077200 A 20000620 - LIN MICHAEL [TW]
• US 5746682 A 19980505 - HUNG MICHAEL [TW]

Citation (search report)
• [A] EP 1743677 A1 20070117 - BRUNSWICK CORP [US]
• [A] DE 20308961 U1 20030821 - CHANG HUANG TUNG [TW]
• [A] US 6893383 B1 20050517 - CHANG CHIH YUAN [TW], et al

Cited by
CN112044024A; CN102940953A

Designated contracting state (EPC)
DE ES FR GB IT SE

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