

Title (en)
Elevator with Frictional Drive

Title (de)
Aufzug mit Reibungsantrieb

Title (fr)
Ascenseur avec entraînement par friction

Publication
EP 1860051 A1 20071128 (EN)

Application
EP 07108660 A 20070522

Priority
• EP 06114506 A 20060524
• EP 07108660 A 20070522

Abstract (en)
The invention provides an elevator (1) comprising a movable component (2), a vertical track (6) mounted along an elevator shaft (4), driven frictional engagement means (12) for frictional engagement with one side of the track (6) with a coefficient of friction (μ 1), and support means (14) disposed on an opposite side of the track (6). The frictional engagement means (12) is pivotally mounted on a lever (16) which pivotally supports an effective weight (mg) of the movable component (2) whereby the lever (16) makes an angle (\pm 1) with the horizontal (H). The tangent of the angle (\pm 1) is less than or equal to the coefficient of friction (μ 1).

IPC 8 full level
B66B 9/02 (2006.01)

CPC (source: EP)
B66B 9/02 (2013.01)

Citation (search report)
• [DA] EP 0870718 A1 19981014 - INVENTIO AG [CH]
• [A] EP 0684204 A2 19951129 - HILLENKOETTER & RONSIECK [DE]
• [A] DE 10140390 A1 20030313 - HILLENKOETTER & RONSIECK [DE]
• [A] EP 0330809 A1 19890906 - SCHAFFER DAGMAR [AT]
• [A] EP 0681984 A1 19951115 - INVENTIO AG [CH]

Cited by
RU2637702C2; US2022033226A1; US11584621B2; EP3957585A1; CN114074882A; EP3854742A1; CN114455436A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1860051 A1 20071128; EP 1860051 B1 20101006

DOCDB simple family (application)
EP 07108660 A 20070522