

Title (en)

A device for the ascent and descent of stairs for the disabled.

Title (de)

Vorrichtung für den Anstieg und den Abstieg von Treppen für Körperbehinderte.

Title (fr)

Dispositif de la montée et la descente des escaliers par les handicapés.

Publication

EP 0394201 A2 19901024 (EN)

Application

EP 90830123 A 19900327

Priority

IT 4006489 A 19890419

Abstract (en)

The present invention refers to a device for the ascent and descent of staircases for the disabled. The device comprises a lifting structure, equipped with a standing or seating platform which is maintained in a constantly horizontal position, and is also equipped with a pair of rolling elements (3) and (4) which couple with tracks (1) and (2) by means of a cogged fit; each rolling element is accompanied by a bogie (5) and (6) which rotates around the same axle as the rolling element and which runs along the bottom edge of the tracks in such a way as to ensure the stability of the lifting structure; for the greater stability of the lifting structure, rollers (15) are fitted, which move along auxiliary tracks (16) which are mounted along certain tracts of the track; for the same reason pawls (18) are fitted, which prevent oscillation of the bogie along horizontal tracts, and thus prevent unwanted oscillation of the lifting structure under any circumstances. The device is equipped with an on-board motor and is able to move the lifting structure along tracts of variable gradient and around very narrow bends.

IPC 1-7

B66B 9/02; B66B 9/08

IPC 8 full level

B66B 9/08 (2006.01)

CPC (source: EP)

B66B 9/0815 (2013.01)

Cited by

EP1053968A3; US5572930A; US5964159A; US6332512B1; AU763727B2; US6761250B1; NL9402200A; EP0839751A1; EP0884266A1; US6342768B1; WO9839241A1; WO9515909A1; WO9620125A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR LI LU NL SE

DOCDB simple family (publication)

EP 0394201 A2 19901024; EP 0394201 A3 19920527; IT 1234715 B 19920526; IT 8940064 A0 19890419

DOCDB simple family (application)

EP 90830123 A 19900327; IT 4006489 A 19890419