

Title (en)
Driving mechanism for a stairlift

Title (de)
Antriebsmechanismus für Treppenaufzug

Title (fr)
Mécanisme d'entraînement pour ascenseur d'escalier

Publication
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Application
EP 01200767 A 20010301

Priority
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Abstract (en)
The invention concerns a staircase lift for transporting a disabled person between floors, including at least one guide rail extending substantially parallelly to a stairway, a moveable carrier frame suspended from the guide rail means including carrier roller means, and drive means of a rack and pinion type drive for displacement of the carrier frame along the guide rail, in which the vertically disposed pinion engaging the rack is provided on the lower side of the guide rail, wherein the drive means comprises a first and second set of guide rollers pivotally arranged one behind the other on each side of the pinion drive wheel in the frame. A staircase lift according to the invention is suitable for installation on a staircase with variable slope and bends, such as a staircase with one or more intermediate plateaux with a discrete guide rail and curved portions. In a staircase lift according to the invention, a compact drive means, i.e. with a vertically oriented pinion, is provided whereby it is ensured that the pinion is kept centred in the rack in the guide rail and whereby the moveable frame is provided with sufficient stability also when entering into a bent portion, running in the bent portion and exiting the bent portion. Hereby, a satisfactory solution is provided making a side rail guided staircase lift suitable for running along a curved track in a stable and smooth manner while also offering a comfortable and smooth ride in a dignifying way for the disabled persons using the lift. <IMAGE>

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IPC 8 full level
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B66B 9/0815 (2013.01)

Citation (search report)
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