

Title (en)
Stairlift for variable-slope flight portions

Title (de)
Treppenaufzug für eine Treppe mit variabler Steigung

Title (fr)
Ascenseur d' escalier pour escalier à pente variable

Publication
EP 1053968 A2 20001122 (EN)

Application
EP 00100177 A 20000112

Priority
IT MI991114 A 19990520

Abstract (en)
A stairlift for variable-slope flight portions which comprises an upper guiding bar (2) and a lower guiding bar (3) which can be fixed to a fixed structure (5) and have a constant distance in a vertical direction. A movable frame (10) is slideable on the guiding bars (2,3) and supports an actuation motor (11). A main driving pinion (21) is actuated by the motor (11) and meshes with an upper toothed guide (25) formed on the upper guiding bar (2), and a stabilizer pinion (30) meshes with a lower toothed guide (31) which is formed on the lower guiding bar (3). The stabilizer pinion (30) is freely rotatable if the inclination of the guiding bars (2,3) exceeds a preset value, whereas the stabilizer pinion (30) is connected to the main driving pinion (21) if the inclination of the guiding bars (2,3) is lower than the preset value. <IMAGE>

IPC 1-7
B66B 9/08

IPC 8 full level
B66B 9/08 (2006.01)

CPC (source: EP)
B66B 9/0815 (2013.01)

Cited by
WO2017202987A1; KR101419498B1; ITUA20163820A1; EP1382558A1; RU2468946C2; US7296659B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 1053968 A2 20001122; EP 1053968 A3 20010307; EP 1053968 B1 20050406; AT E292596 T1 20050415; DE 60019190 D1 20050512; DE 60019190 T2 20050922; ES 2238944 T3 20050916; IT MI991114 A1 20001120

DOCDB simple family (application)
EP 00100177 A 20000112; AT 00100177 T 20000112; DE 60019190 T 20000112; ES 00100177 T 20000112; IT MI991114 A 19990520