

Title (en)  
TORQUE LIMITER FOR A STAIRLIFT

Title (de)  
SICHERHEITSKUPPLUNG FÜR EINEN TREPPENLIFT

Title (fr)  
LIMITEUR DE COUPLE POUR UN MONTE-ESCALIER

Publication  
**EP 4223685 A1 20230809 (EN)**

Application  
**EP 22154983 A 20220203**

Priority  
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Abstract (en)  
The present disclosure refers to a soft-lock system (1) for drive means of a movable part, especially a footrest (101), of a stairlift, the system (1) comprising: drive means for applying a torque to a shaft (3), to move a movable part, especially a footrest (101), between a vertical orientation and a horizontal orientation; a shaft (3) for rotatably connecting the movable part, especially the footrest (101), to a base of a stairlift chair (100), wherein the shaft (3) comprises a radially protruding pin (9); a connecting element (8) for transferring the torque from the shaft (3) to the movable part, especially the footrest (101), wherein the connecting element (8) comprises a groove (12) for receiving the pin (9); and mechanical means for applying a force to the pin (9) to keep the pin (9) within the groove (12), to provide a fixed linkage between the drive means and the connecting element (8); and when the force to the pin (9) exceeds a threshold, the groove (12), the pin (9) and the means for applying the force are configured to release the pin (9) from the groove (12) to decouple the linkage between the connecting element (8) and the drive means. The present disclosure also refers to a chair damping system (40) for damping a movable part of a stairlift.

IPC 8 full level  
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• [XAI] EP 0626046 B1 19970423 - RIGERT BERNHARD [CH]  
• [XAI] CN 206615896 U 20171107 - CHANGXING YUEHUI TECH CO LTD  
• [XAI] CH 691773 A5 20011015 - RIGERT AG TREPPENLIFTE [CH]  
• [A] JP H07315723 A 19951205 - OKUBO MASAO, et al

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