

Title (en)

Door arrangement comprising a tension system and method of operating such tension system

Title (de)

Toranordnung mit einem Spannungssystem und Verfahren zum Betrieb eines solchen Systems

Title (fr)

Agencement de porte comportant un système de tension et procédé de fonctionnement d'un tel système

Publication

EP 1724431 A1 20061122 (EN)

Application

EP 05010754 A 20050518

Priority

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Abstract (en)

The invention discloses a door arrangement (1) comprising a flexible door leaf (2), arranged on a winding roller (3), wherein the door arrangement (1) is provided with flexible traction members (4) associated with at least one driving device (5) for applying a traction force on the flexible door leaf (2) in order to enable the flexible door leaf (2) to be movable between a closed position and an open position, and vice versa. The door arrangement (1) comprising a tension system (6) comprising said flexible traction members (4) extending along the directions of movement, and said tension system forming (6), at the sides of the door arrangement (1), a closed loop system. Furthermore, a first and a second resilient element (7, 8) are provided to said tension system (6) on either side of a lower portion (24) of said flexible door leaf (2) as seen when following said closed loop system from at least one direction and said first resilient element (7) is resilient within a tension range (A-B) such that, during stalling, tensioning of said first resilient element (7) is limited to a threshold value by a holding element (17). Furthermore, the invention discloses a method for operating such a door arrangement (1) during stalling of said door leaf (2).

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [Y] DE 8206622 U1 19820624
- [Y] EP 1331341 A1 20030730 - BARNE'S GROUP INC [US]
- [A] EP 1510647 A1 20050302 - CARDOP DOOR AB [SE]
- [A] US 2003178158 A1 20030925 - SCHULTE PETER S [US]
- [A] DE 3245009 A1 19840614 - SEUSTER ADOLF GMBH [DE]
- [A] US 4252172 A 19810224 - POMMAT ALAIN, et al
- [A] DE 8409707 U1 19850221
- [A] GB 2095365 A 19820929 - RUD KETTEN RIEGER & DIETZ

Cited by

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