

Title (en)

Catching and clamping device of an inclined or vertical lift's car guided on rails

Title (de)

Fang- und Blockiereinrichtung für einen auf Laufschielen geführten Laufwagen eines Schräg- oder Senkrechtaufzugs

Title (fr)

Dispositif de blocage et d'accrochage pour le chariot guidé sur rails d'un ascenseur oblique ou vertical

Publication

EP 0640552 B1 19980909 (DE)

Application

EP 94810476 A 19940817

Priority

CH 251093 A 19930824

Abstract (en)

[origin: EP0640552A1] A catching device 3 for a carriage 1, guided on rails 2, of an inclined or vertical lift engages on each rail 2 in a clamping manner without sliding friction. It consists in each case of an eccentric 31, held on a stop and preloaded in its direction of action, and of a brake block 32 as engagement safety feature. The carriage 1 has a main frame 11, on which the car is mounted, and a sliding frame 12 which is guided in a sliding manner in the direction of travel relative to the main frame 11. To dampen the relative movement upon engagement of the catching device 3, at least one shock absorber 6 is arranged between main frame 11 and sliding frame 12. In case of an emergency, a slack-rope tripping mechanism 4 and a speed limiter 5 are provided as tripping devices, which throw the catching device 3 into engagement with the rails 2 and immediately clamp the sliding frame 12 on them by means of self-locking friction. The main frame 11 with the car runs onto the sliding frame 12 and is gradually brought to a stop via the shock absorber 6. The brake path of the carriage 1 can here be dimensioned in a manner suitable for all conceivable applications and is independent of the instantaneous coefficient of friction on the rails 2 on account of the self-locking engagement of the catching and clamping device 3. <IMAGE>

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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