

Title (en)

Electrically actuated mechanism for rail switch-points.

Title (de)

Mechanismus für elektrisch betätigte Eisenbahnweichenungen.

Title (fr)

Mécanisme pour aiguillages de chemin de fer, actionnés électriquement.

Publication

EP 0176830 A2 19860409 (EN)

Application

EP 85111525 A 19850912

Priority

IT 1261884 A 19841003

Abstract (en)

This invention relates to an electrically-actuated mechanism for rail switch-points, of the type wherein the actuating, checking and locking devices are arranged within the container enclosing the switch-points mechanism, and the two internal operating rods (T1, T2) thereof, arranged side by side parallelly to each other, are connected to an elastic coupling device acting as a force-limiter and performing the functions of friction, trailing, approach and of stabilizing the points. Said elastic coupling device comprises a sliding ember or slide (3) overlying the internal operating rods (T1, T2) and capable of sliding in the same longitudinal direction as said rods by the action of an electric motor capable of rotating alternately in either directions. The switch-points mechanism according to this invention is characterized in that said elastic coupling device between the two internal operating rods (T1, T2) and the overlying slide (3) comprises a coupling member (4) which is connected to the overlying slide (3) through driving members (5,6,7,8,9,10,11) which are collapsible resiliently within certain limits and which are disconnectible automatically when said limits are exceeded. Said coupling member (4) is arranged between the two internal operating rods (T1, T2) and is connected to each of them by means of two opposite driving abutments, one of which (13, 13 min) is stationary and the other (14, 14 min) is retractable so as to be disengageable from the coupling member (4) on completion of the movement of the switch-points in a direction for one operating rod (T1) and in the opposite direction for the other operating rod (T2).

IPC 1-7

B61L 5/06; **E01B 7/02**

IPC 8 full level

B61L 5/06 (2006.01); **E01B 7/02** (2006.01)

CPC (source: EP)

B61L 5/067 (2013.01)

Cited by

KR101028582B1; CN103144650A; AT404924B; CN105799737A; US4842225A; FR2989049A1; WO2005105535A1; WO9955571A1; WO9745309A3

Designated contracting state (EPC)

AT BE CH DE FR GB LI NL SE

DOCDB simple family (publication)

EP 0176830 A2 19860409; **EP 0176830 A3 19880406**; **EP 0176830 B1 19900718**; **EP 0176830 B2 19940706**; AT E54631 T1 19900815; DE 3578719 D1 19900823; ES 547485 A0 19860901; ES 8609083 A1 19860901; IT 1180834 B 19870923; IT 8412618 A0 19841003

DOCDB simple family (application)

EP 85111525 A 19850912; AT 85111525 T 19850912; DE 3578719 T 19850912; ES 547485 A 19851002; IT 1261884 A 19841003