

Title (en)
DEVICE FOR RESETTING POINTS

Title (de)
EINRICHTUNG ZUM UMSTELLEN VON WEICHEN

Title (fr)
DISPOSITIF POUR DEPLACER DES AIGUILLES

Publication
EP 1412241 A1 20040428 (DE)

Application
EP 02753888 A 20020626

Priority
• AT 6062001 U 20010731
• AT 0200184 W 20020626

Abstract (en)
[origin: US2005139729A1] In a device for operating rail switches, in which a plurality of mutually coupled hydraulic operating devices are arranged in an offset manner in the longitudinal direction of the rails, the cylinder-piston units of the hydraulic operating devices are connected to be driven in the same direction. The working volumes (13) of the hydraulic cylinder piston units (7) each comprise two regions (18, 19) with defined cylinder cross sections, wherein the respective regions (18) containing end-position securing means (20, 21), safety locking means and/or sensors, of the cylinder-piston units (7) arranged in an offset manner in the longitudinal direction of the rails have equal cross sections and the respective other regions (19) of the cylinder-piston units (7) arranged in an offset manner in the longitudinal direction of the rails have cross sections differing from one another.

IPC 1-7
B61L 5/04; B61L 5/10

IPC 8 full level
B61L 5/04 (2006.01)

CPC (source: EP US)
B61L 5/04 (2013.01 - EP US)

Cited by
CN105438221A

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

Designated extension state (EPC)
LT LV RO SI

DOCDB simple family (publication)
US 2005139729 A1 20050630; US 7178764 B2 20070220; AT 5757 U1 20021125; AT E368603 T1 20070815; AU 2002322136 B2 20080605; BG 108607 A 20050228; BG 65297 B1 20071228; BR 0211596 A 20040713; CA 2455734 A1 20030213; DE 50210594 D1 20070913; DK 1412241 T3 20071210; EP 1412241 A1 20040428; EP 1412241 B1 20070801; ES 2290322 T3 20080216; HU 0401425 D0 20040830; HU P0401425 A2 20041028; NO 20040425 L 20040130; PL 201761 B1 20090529; PL 365440 A1 20050110; PT 1412241 E 20071030; WO 03011671 A1 20030213; ZA 200400704 B 20041015

DOCDB simple family (application)
US 48516404 A 20040128; AT 0200184 W 20020626; AT 02753888 T 20020626; AT 6062001 U 20010731; AU 2002322136 A 20020626; BG 10860704 A 20040225; BR 0211596 A 20020626; CA 2455734 A 20020626; DE 50210594 T 20020626; DK 02753888 T 20020626; EP 02753888 A 20020626; ES 02753888 T 20020626; HU P0401425 A 20020626; NO 20040425 A 20040130; PL 36544002 A 20020626; PT 02753888 T 20020626; ZA 200400704 A 20040128