

Title (en)
OIL-HYDRAULIC CONTROL UNIT FOR CONTROLLING RAILWAY SWITCHES AND METHOD FOR PERFORMING A SAFETY CHECK ON AN OIL-HYDRAULIC CONTROL UNIT

Title (de)
ÖLHYDRAULISCHE STEUEREINHEIT ZUR STEUERUNG VON EISENBAHNWEICHEN UND VERFAHREN ZUR DURCHFÜHRUNG EINER SICHERHEITSÜBERPRÜFUNG AN EINER ÖLHYDRAULISCHEN STEUEREINHEIT

Title (fr)
UNITÉ DE COMMANDE OLÉOHYDRAULIQUE POUR LA COMMANDE DES COMMUTATEURS DE CHEMIN DE FER ET PROCÉDÉ POUR EFFECTUER UN CONTRÔLE DE SÉCURITÉ SUR UNE UNITÉ DE COMMANDE OLÉOHYDRAULIQUE

Publication
EP 3564089 A1 20191106 (EN)

Application
EP 18305551 A 20180502

Priority
EP 18305551 A 20180502

Abstract (en)
Oil-hydraulic control unit (1') comprising:- a pump (6) arranged for sending oil to a pressure unit (8) arranged to pressurize said oil and to send it through a hydraulic circuit towards at least one actuator (20) of a switch (10) of a railway track, said hydraulic circuit comprising preferentially a plurality of canals, the at least one actuator (20) being connected to at least one canal for being operated;- a control device (4) connected to said pump (6) and arranged for controlling the pump (6) based on an activation signal coming from a remote control unit (2) arranged for controlling switch operations of the switch (10);- a timing unit (12) arranged to send control signals to the remote control unit (2) representative of the correct operation of the oil-hydraulic control unit (1');characterized in that the pressure unit (8) comprises at least two valves (16a, 16b) for each group of canals intended to be connected to the at least one actuator (20), the valves (16a, 16b) being arranged so that when a first valve (16a) breaks, a second valve (16b) starts sending the oil flowing in the group of canals towards a reservoir of the oil-hydraulic control unit (1') so that the pressure of the oil going to the at least one actuator (20) decreases, thus regulating the pressure of the oil flowing into said group of canals.

IPC 8 full level
B61L 5/04 (2006.01); **B61L 1/20** (2006.01)

CPC (source: EP)
B61L 1/20 (2013.01); **B61L 5/045** (2013.01)

Citation (applicant)
EP 2418135 A1 20120215 - ALSTOM TRANSPORT SA [FR]

Citation (search report)
• [Y] EP 0064249 A1 19821110 - ABEX CORP [US]
• [YD] EP 2418135 A1 20120215 - ALSTOM TRANSPORT SA [FR]

Cited by
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