

Title (en)

A control system for railroad track switches

Title (de)

Steueranlage für Eisenbahnweichen

Title (fr)

Système de commande pour des aiguillages de chemin de fer

Publication

EP 0749883 A2 19961227 (EN)

Application

EP 96109889 A 19960619

Priority

IT TO950512 A 19950620

Abstract (en)

A system wherein a central control station (4) supplies, through a three-pole cable (66), a peripheral station (6), wherein an electric motor (10) causes a railroad track switch (8) to move between a first and a second limit of travel position. System (1) comprises an electromechanical position sensor (20), coupled with a first and a second capacitor (41, 40), connected in series, for either first or second position, and through three-pole cable (66), with a first and a second inductor (54, 60), respectively, of the control station. A signal generator (46) supplies, at its output, a periodic alternating signal (S), capable of causing the electric circuit, comprising first capacitor (41), connected in series with first inductor (54), or second capacitor (40), in series with second inductor (60), to resound. Central station (4) comprises first and second measuring means (58, 61), respectively coupled with first and second inductors (54, 60) and capable of measuring thereon a resonance voltage peak to measure the position of both position sensor (20) and switch. <IMAGE>

IPC 1-7

B61L 7/06

IPC 8 full level

B61L 5/10 (2006.01); **B61L 7/06** (2006.01)

CPC (source: EP)

B61L 5/107 (2013.01); **B61L 7/06** (2013.01)

Cited by

EP1990252A1; EP1607301A1; CN100439933C; AU2008209302B2; CN115257859A; WO2008089502A3

Designated contracting state (EPC)

FR GB IE SE

DOCDB simple family (publication)

EP 0749883 A2 19961227; **EP 0749883 A3 19980107**; **EP 0749883 B1 20030305**; IT 1276422 B1 19971031; IT TO950512 A0 19950620; IT TO950512 A1 19961220

DOCDB simple family (application)

EP 96109889 A 19960619; IT TO950512 A 19950620