

Title (en)  
DEVICE FOR THE PROTECTION OF TRACK RELAYS FROM ELECTRICAL DISTURBANCES

Publication  
**EP 0202200 A3 19881130 (EN)**

Application  
**EP 86830103 A 19860502**

Priority  
IT 1248985 A 19850509

Abstract (en)  
[origin: EP0202200A2] The object of the invention is a device for protecting track relays (9), controlled by two voltages V1 and VL having a phase difference of 90 DEG , utilized in so-called "single-track" track circuits. According to the invention, the supply voltage Vc applied to the track circuit and the local voltage VL applied to the track relay (9) are supplied through polarity change switches CC and CL.

IPC 1-7  
**B61L 1/18**

IPC 8 full level  
**B61L 1/18** (2006.01)

CPC (source: EP)  
**B61L 1/187** (2013.01)

Citation (search report)  
• [X] DE 737653 C 19430719 - VER EISENBAHN SIGNALWERKE GMBH  
• [X] DE 904553 C 19540218 - SIEMENS AG

Cited by  
AT400430B; EP0367730A3

Designated contracting state (EPC)  
AT BE CH DE FR GB LI LU NL SE

DOCDB simple family (publication)  
**EP 0202200 A2 19861120; EP 0202200 A3 19881130**; DE 202200 T1 19880317; IT 1186871 B 19871216; IT 8512489 A0 19850509

DOCDB simple family (application)  
**EP 86830103 A 19860502**; DE 86830103 T 19860502; IT 1248985 A 19850509