

Title (en)  
ADAPTER FOR RELAY

Title (de)  
ADAPTER FÜR RELAIS

Title (fr)  
ADAPTATEUR POUR RELAIS

Publication  
**EP 3357786 A3 20181017 (EN)**

Application  
**EP 18155652 A 20180207**

Priority  
• NL 2018333 A 20170207  
• NL 2019579 A 20170919

Abstract (en)  
[origin: EP3357786A2] The invention relates to railway safety. On the one hand, the proposal is to combine a vital relay (so called B-relay), inside a relay box or relay house which is associated with a railway, with an external, wireless remote from outside the relay box or relay house controlled switch inside the relay box or relay house, which switch is arranged to switch the B relay (1) between "on" and "off". On the other hand the proposal is to mount, in an existing assembly of vital relay (1) and associated contact block (4) an adapter (3), which adapter is provided with a means to extend the functionality of the relay.

IPC 8 full level  
**B61L 1/18** (2006.01); **H01H 50/04** (2006.01)

CPC (source: EP)  
**B61L 1/181** (2013.01); **H01H 50/048** (2013.01); **H01H 50/021** (2013.01); **H01H 2300/03** (2013.01); **H01H 2300/044** (2013.01)

Citation (search report)  
• [XY] JP 2017010662 A 20170112 - HIGASHI NIPPON RYOKAKU TETSUDO  
• [Y] US 6454368 B1 20020924 - BEDAU NORBERT [DE], et al  
• [Y] DE 4413468 A1 19951026 - SIEMENS AG [DE]  
• [A] EP 3069953 A1 20160921 - VOLKERRAIL NEDERLAND BV [NL]

Cited by  
US11539177B2; EP3657524A1; AU2019268207B2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3357786 A2 20180808; EP 3357786 A3 20181017**; NL 2020390 A 20180814; NL 2020390 B1 20200124

DOCDB simple family (application)  
**EP 18155652 A 20180207**; NL 2020390 A 20180206