

Title (en)

Heating / cooling element for a railway switch

Title (de)

Heiz / Kühlelement für eine Eisenbahnweiche

Title (fr)

Élément de chauffage / refroidissement pour aiguillage

Publication

EP 2366829 A1 20110921 (EN)

Application

EP 11158626 A 20110317

Priority

- NL 2004420 A 20100317
- NL 2004480 A 20100330

Abstract (en)

The invention relates to a heating element of elongated shape, mounted along a rail such that there is contact across a large surface between the surface of the heating element and the surface of one or more of the rail web, the top of the rail toe and the lower side of the rail head and through which heating element one or more separated liquid channels extend longitudinally to extend parallel to the rail, and with, related to the operating attitude in which the heating element is mounted against the rail, liquid channels located diagonally and separated by a diagonal partition wall(3) that remote from the top and lower side of the heating element, approximately halfway its height, extends and inside the heating element connects to the front and back wall, and which wall (3) makes an angle with the horizontal and vertical, viewed from the rail extending inclined upward, and there above a liquid channel and there below a liquid channel are present.

IPC 8 full level

E01B 7/24 (2006.01)

CPC (source: EP)

E01B 7/24 (2013.01)

Citation (applicant)

- EP 0014485 A1 19800820 - ABEN APP & MASCHF [NL]
- NL 1022069 C1 20040607 - HOLLAND RAILCONSULT B V [NL]
- EP 1262597 B1 20090729 - MOVARES NEDERLAND BV [NL]
- EP 1645688 A2 20060412 - SCHARRENBROICH EUGEN [AT]
- AT 10906 U1 20091215 - SCHARRENBROICH EUGEN [AT]
- NL 1015323 C2 20001212 - ROMA B V [NL]
- WO 2009109664 A1 20090911 - TRIPE S GMBH [DE], et al

Citation (search report)

[X] WO 2009109664 A1 20090911 - TRIPE S GMBH [DE], et al

Citation (examination)

WO 2010142720 A1 20101216 - BALFOUR BEATTY PLC [GB], et al

Cited by

EA027519B1; NO20210905A1; NO347329B1; WO2014033022A1

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 2366829 A1 20110921; NL 2004480 C2 20110920

DOCDB simple family (application)

EP 11158626 A 20110317; NL 2004480 A 20100330