

Title (en)  
RAIL SWITCH HEATING DEVICE

Title (de)  
BAHNWEICHENHEIZVORRICHTUNG

Title (fr)  
DISPOSITIF DE CHAUFFAGE DE COMMUTATEUR DE RAIL

Publication  
**EP 3141657 A1 20170315 (EN)**

Application  
**EP 15002631 A 20150909**

Priority  
EP 15002631 A 20150909

Abstract (en)  
A device for heating rail switches as consisting of a sliding plate (1) with the upper part (3) with a sliding surface (9) and of a base plate (2) fitted with an induction heater (12) consisting of an inductor (4) and a winding placed inside the sliding plate (1) connected to a power source. The induction heater (12) has a shape similar to a cylinder with an annular hollow (5) where a coil spool (6) is placed as mounted on an inductor pin (10) and the induction heater (12) is located inside a hollow (11) in the sliding plate (1).

IPC 8 full level  
**E01B 7/24** (2006.01); **E01B 19/00** (2006.01)

CPC (source: EP)  
**E01B 7/24** (2013.01); **E01B 19/00** (2013.01)

Citation (applicant)  
• EP 2720513 B1 20150422 - IFF GMBH [DE]  
• US 6664521 B1 20031216 - KONDO SHINJI [JP], et al  
• JP 2001131901 A 20010515 - SHINYOSHA KK

Citation (search report)  
• [A] EP 2735649 A2 20140528 - TRIPLE S GMBH [DE], et al  
• [AD] JP 2001131901 A 20010515 - SHINYOSHA KK  
• [A] WO 2014032864 A1 20140306 - TRIPLE S GMBH [DE]  
• [A] WO 2014032867 A2 20140306 - TRIPLE S GMBH [DE]

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 3141657 A1 20170315**; **EP 3141657 B1 20180502**; DK 3141657 T3 20180813; HU E039579 T2 20190128; LT 3141657 T 20181112; PL 3141657 T3 20181031; RS 57507 B1 20181031; SI 3141657 T1 20180928

DOCDB simple family (application)  
**EP 15002631 A 20150909**; DK 15002631 T 20150909; HU E15002631 A 20150909; LT 15002631 T 20150909; PL 15002631 T 20150909; RS P20180900 A 20150909; SI 201530338 T 20150909