

Title (en)
Inductive heating device for points and/or rails

Title (de)
Induktive Weichen- und/oder Schienenheizvorrichtung

Title (fr)
Dispositif inductif de chauffage d'aiguille et/ou de rail

Publication
EP 2720513 B1 20150422 (DE)

Application
EP 12007123 A 20121015

Priority
EP 12007123 A 20121015

Abstract (en)
[origin: EP2720513A1] The device (1) has a generator (2) supplying alternating current (AC) sources over a line connection (22). An inductor (6) is supplied with AC and comprises an induction coil. The inductor is fastened at a rail (8) or a switch (10). Current is induced by electromagnetic induction due to the induction coil of the inductor in the rail or the switch is supplied with the AC. The current heats the rail or the switch. A control- or regulation device controls or regulates electric power of the generator by varying frequency and/or pulse width of the AC fed into the inductor. The control- or regulation device is a P-controller, a PI controller or a PID controller. An independent claim is also included for a railway system for a rail vehicle.

IPC 8 full level
H05B 6/10 (2006.01); **E01B 7/24** (2006.01); **E01B 19/00** (2006.01); **E01H 8/08** (2006.01); **H05B 6/06** (2006.01)

CPC (source: EP)
E01B 7/24 (2013.01); **E01B 19/00** (2013.01); **H05B 6/06** (2013.01); **H05B 6/101** (2013.01)

Cited by
EP3169138A1; CN108419317A; RU209349U1; US2016258124A1; CN108419316A; CN109790689A; RU2658755C1; CN108419322A; CN108419321A; CN112823224A; EP3854940A1; NL2024757B1; EP3141657A1; WO2017142473A1; DE202015008532U1; DE102020129223B3; WO2022097074A1

Designated contracting state (EPC)
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