

Title (en)
ELECTRICAL SYSTEM, ARRANGEMENT AND METHOD APPLICABLE TO RAILROAD TRACKS

Title (de)
ELEKTRISCHES SYSTEM, ANORDNUNG UND VERFAHREN FÜR EISENBAHNSCHIENEN

Title (fr)
SYSTÈME ÉLECTRIQUE, AGENCEMENT ET PROCÉDÉ APPLICABLES À DES VOIES FERRÉES

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Abstract (en)
[origin: WO2022238615A1] The present invention relates to a method and arrangement (10) for monitoring rail-road track vacancy or a broken rail. The arrangement comprises a DC voltage source (11), feeding DC voltage into the rails (19a-b) of the railroad track, the DC voltage source (11) locating in a first location along the railroad track. A dedicated DC/AC converting part (12, 13) is set to trigger an AC signal on and into the rails (19a-b) based on a sensed DC voltage originating from the DC voltage source (11), where the dedicated DC/AC converting part (12, 13) locates in a second location along the railroad track. An AC measurement circuitry (14, 15, 16, 17, 18), comprising a high- or a band-pass filter (14) and a detector (18), locates in the first location along the railroad track. The detector (18) senses the received AC signal change, when e.g. a train arrives between the first and second locations.

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