

Title (en)

SYSTEM AND METHOD FOR DETECTING BROKEN RAILS ON A RAILWAY LINE

Title (de)

SYSTEM UND VERFAHREN ZUR ERKENNUNG GEBROCHENER SCHIENEN AUF EINEM GLEIS

Title (fr)

SYSTÈME ET PROCÉDÉ POUR DÉTECTER LA RUPTURE DES RAILS D'UNE LIGNE FERROVIAIRE

Publication

**EP 3196095 B1 20191030 (EN)**

Application

**EP 15842134 A 20150909**

Priority

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Abstract (en)

[origin: EP3196095A1] The invention relates to a system and a method for detecting broken rails for a railway line, designed to detect the breakage by means of electrical discontinuity in at least one rail (R). The system comprises an emitting node (1), a receiving node (2), and connection means for generating an electrical circuit between both nodes (1, 2) and the section of rails (R), of up to 7km between both nodes (1,2), where into the emitting node (1) injects an alternating electrical signal. The system also comprises a detector (S) associated with each rail (R) in order to detect the alternating electrical signal through the corresponding rail (R), and control means that receive the detected signals and determine whether there is electrical discontinuity in the electrical circuit, identifying the broken rail (R). In the event of double-track railway lines, the broken rail (R) is also identified and the break area is estimated.

IPC 8 full level

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