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(54) **Electrical insulation rail joint and rail with coating**

(57) Electrical insulation rail joint and rail (1) for a railway, provided with a coating of a synthetic rubber, wherein the coating can have one or more of the following mechanical properties: hardness Shore A of at least 85 or 90, such as between 92 and 95; a hardness Shore D of at least 30 or 35, e.g. between 38 and 42; a tension strength of at least 15 or 20, e.g. 21 N/mm<sup>2</sup>, an elongation at failure of at least 300 or 350 or 400, e.g. 425%; and a rupture strength of at least 45 or 50 or 55, e.g. 58 kN/m. The coating can be made of a copolymer, preferably a polyol and an isocyanate, preferably such that an elastomeric polyurethane or polyurethane rubber is obtained.

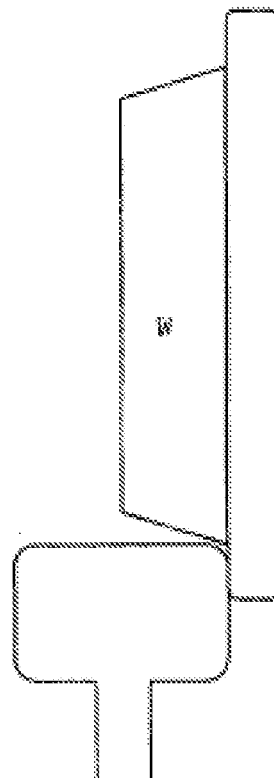


Fig. 3



## EUROPEAN SEARCH REPORT

Application Number  
EP 10 19 1629

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Place of search Munich		Date of completion of the search 21 January 2013	Examiner Fernandez, Eva
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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