

Title (en)  
Measuring vehicle for Railway

Title (de)  
Messfahrzeug für Schienennetz

Title (fr)  
Véhicule de mesure pour réseau ferroviaire

Publication  
**EP 1344702 A1 20030917 (EN)**

Application  
**EP 03075736 A 20030313**

Priority  
NL 1020168 A 20020313

Abstract (en)  
The invention relates to railway switch management. Data are used to calculate one or more of the quality numbers Q5, Qcp and Qj by using the following formulas:  $Q5 = (1 - 0,1 \cdot Qg) \cdot (1 - 0,1 Qc) \cdot (1 - 0,1 Qt) \cdot (1 - 0,1 Qv) \cdot (1 - 0,1 Qh) \cdot 10$ ;  $Qcp = (\Sigma Npcp / \Sigma Nmcp) \cdot 10$ ; and  $Qj = (0,5 \cdot Sg + St + Sv + Sh) \cdot 10 / 3,5 \cdot Rj$ , the result of which is possibly combined with one or more of the results of the following formulas:  $Qv = L - \Sigma (D \cdot F) / \Sigma F \cdot L$ ;  $DI = D \cdot F$ ;  $W = \Sigma DI / \Sigma F \cdot L$ ;  $Qv = L - W$ ;  $\Delta Qi = \Delta Wi = \Delta Fi / (\Sigma F + \Delta Fi) \cdot L$  into a quality level that is compared with a predetermined target quality level, and it is decided to carry out predetermined maintenance activities when a predetermined maximum difference from said comparison is exceeded, to improve the quality level of said switch. Also a measuring vehicle is proposed provided with sensors to measure one or more of the following parameters of a switch: gauge, cant, gap width, vertical and horizontal irregularity.

IPC 1-7  
**B61K 9/08**; E01B 35/04

IPC 8 full level  
**B61K 9/08** (2006.01)

CPC (source: EP)  
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Citation (search report)  

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DOCDB simple family (publication)  
**EP 1344702 A1 20030917**; **EP 1344702 B1 20090520**; AT E431796 T1 20090615; DE 60327676 D1 20090702

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