

Title (en)
Method and apparatus to verify, modify, manage and plan superstructures for underground, tram and railway lines and similar

Title (de)
Verfahren und Vorrichtung zum Überprüfen, Verändern, Verwalten und Planen von Gleisoberbauten für Untergrund-, Strassenbahn- und Eisenbahnlinien und ähnlichem

Title (fr)
Procédé et dispositif pour vérifier, modifier, gérer et projeter les superstructures des voies ferrées de métros, de tramways et de chemins de fer et similaire

Publication
EP 1186509 A3 20020828 (EN)

Application
EP 01120963 A 20010831

Priority
IT UD20000166 A 20000911

Abstract (en)
[origin: EP1186509A2] Apparatus and method (10) to verify, modify, manage and plan superstructures for underground, tram and railway lines and similar, comprising a main electronic processor or server (11) provided with at least a first high capacity mass memory (15) and at least a computerized work station (20), connected to said server (11) and having at least a display unit (29); in the first memory (15) a relational database (31) is able to be formed and permanently maintained, in which are contained both the historic data relating to the lines, including their design data, and also the data detected on different occasions on the current state of the lines. The computerized work station (20) is able to cause in the display unit (29), on request from the user, the graphic and/or alphanumerical representation of the data contained in the relational database (31). <IMAGE>

IPC 1-7
B61K 9/08

IPC 8 full level
B61K 9/08 (2006.01)

CPC (source: EP)
B61K 9/08 (2013.01)

Citation (search report)

- [XA] US 5867404 A 19990202 - BRYAN MICHAEL A [US]
- [A] US 5731997 A 19980324 - MANSON PAUL ROBIN [NZ], et al
- [A] DE 10008147 A1 20000831 - TIEFENBACH GMBH [DE]
- [A] WO 0032458 A1 20000608 - IWS ELEKTRONIK UND INFORMATION [DE], et al

Cited by
KR100501463B1; US11529980B2; US2023071611A1; US11938982B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1186509 A2 20020313; EP 1186509 A3 20020828; EP 1186509 B1 20060215; AT E317787 T1 20060315; CY 1106079 T1 20110608; DE 60117204 D1 20060420; DE 60117204 T2 20060921; DK 1186509 T3 20060619; ES 2258499 T3 20060901; IT 1315035 B1 20030127; IT UD20000166 A0 20000911; IT UD20000166 A1 20020311; PT 1186509 E 20060731

DOCDB simple family (application)
EP 01120963 A 20010831; AT 01120963 T 20010831; CY 061100612 T 20060511; DE 60117204 T 20010831; DK 01120963 T 20010831; ES 01120963 T 20010831; IT UD20000166 A 20000911; PT 01120963 T 20010831