

Title (en)
METHOD AND SYSTEM FOR PREVENTING THE CONGESTION OF A RAILTRACK SYSTEM

Title (de)
VERFAHREN UND SYSTEM ZUR ÜBERFÜLLVERHINDERUNG EINER GLEISANLAGE

Title (fr)
PROCEDE ET SYSTEME DESTINES A EVITER LA SURCHARGE D'UN RESEAU FERROVIAIRE

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Abstract (en)
[origin: WO0162573A1] The invention relates to a decision procedure in combinational logic which requires a computing time of $n < m \cdot n$ for determining the congestion of a railtrack system. The railtrack system supports n trains, each with a route length of m itineraries. The work steps before the request for the provision of a route can be reduced by the following iterative steps: a) verification of whether a train can also reach the next immediate track sector of a route (ST1:R1); b) verification for a two-train variation of whether a reference position of the first train prevents the second train from travelling on its route (ST2:R2); c) new dependencies are created using transitivity (ST4) and for combinations of two trains, a verification is made whether a cogent sequence exists (ST5:R3), whereby the step c) is iterated until no new dependencies occur or no train can reach its destination (CYC4).

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