

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

Publication  
**EP 1265776 B1 20040121 (DE)**

Application  
**EP 01913811 A 20010210**

Priority  
• CH 3732000 A 20000225  
• EP 0101476 W 20010210

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).

IPC 1-7  
**B61L 27/04**; G08G 1/123

IPC 8 full level  
**B61L 27/00** (2006.01); **B61L 21/06** (2006.01)

CPC (source: EP US)  
**B61L 21/06** (2013.01 - EP US)

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)  
**WO 0162573 A1 20010830**; AT E258129 T1 20040215; CA 2401077 A1 20010830; CA 2401077 C 20101019; DE 50101362 D1 20040226; EP 1265776 A1 20021218; EP 1265776 B1 20040121; JP 2003523887 A 20030812; US 2003025043 A1 20030206; US 6827315 B2 20041207

DOCDB simple family (application)  
**EP 0101476 W 20010210**; AT 01913811 T 20010210; CA 2401077 A 20010210; DE 50101362 T 20010210; EP 01913811 A 20010210; JP 2001561598 A 20010210; US 22824202 A 20020826