METHOD FOR ADJUSTING BRAKING PARAMETERS OF A TRAIN TO ACCOUNT FOR TRAIN CHARACTERISTIC PARAMETER VARIATIONS

Abstract: A method of adjusting one or more of braking parameters used in a braking function to control braking of a train includes determining an adjustment factor based on a joint stopping distance probability distribution, the joint stopping distance probability distribution representing the composite effect on stopping distance of a plurality of predetermined train characteristic parameters, each of the predetermined train characteristic parameters being variable, and applying the adjustment factor to each of the one or more of braking parameters. Also, a method of adjusting braking parameters that includes determining an adjustment factor based on a nominal value, a worst case limit value and a best case limit value of each of a plurality of predetermined train characteristic parameters, each of the predetermined train characteristic parameters being variable, and applying the adjustment factor to each of the one or more of braking parameters.
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18 May 2012
INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 11/52300

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8)- G05D 1/00 (201 2.01)
USPC - 701/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
USPC: 701/20

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
IPC: G05D 1/00; USPC: 701/1, 701/19, 701/20; 702/1, 702/85, 702/96 (keyword limited; terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST (USPT, PGBP, EPAB, JPAB); Google Scholar; Google Patents

Keywords: Train; braking; distance; distribution; adjustment factor

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category*</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>WO 2010/093760 A1 (RHEA, JR et al.) 19 August 2010 (19.08.2010), entire document, especially: para [0006]-[0008], [0014], [0033]-[0038], [0043], [0044], [0053], [0054], [0056], [0061]-[0065]</td>
<td>1 - 22</td>
</tr>
</tbody>
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Further documents are listed in the continuation of Box C.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
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