

Title (en)

Method of producing a train running plan.

Title (de)

Verfahren zum Erzeugen eines Zuglaufplanes.

Title (fr)

Méthode de production d'un plan de roulage pour train.

Publication

**EP 0467377 A2 19920122 (EN)**

Application

**EP 91112062 A 19910718**

Priority

- JP 5218791 A 19910318
- JP 18807590 A 19900718
- JP 33708090 A 19901130

Abstract (en)

When the train is running, the target speed ( $V_n$ ) of the train is set every small territory, a plurality of which are obtained by dividing the predetermined territory having a fixed limit speed ( $V_{max}$ ) thereinto, and the consumed energy (E) and the running time (T) of the train are obtained in such a way that after accelerating the train by the maximum accelerating force, or decelerating it by the maximum decelerating force, the train runs at the fixed speed in accordance with a target speed ( $V_n$ ) thus set. By carrying out such a processing repeatedly, the target speeds ( $V_n$ ) of all the small territories are set so that the train runs in the predetermined running time (T) and the consumed energy (E) becomes minimum. In the case where the consumed energy (E) of the target speed ( $V_n$ ) when the limit speed ( $V_{max}$ ) is constant, and the target speed ( $V_n$ ) of one small territory are changed, the change ratio ( $\Delta E / \Delta T$ ) of the consumed energy (E) of the target speed ( $V_n$ ) to the running time (T) is obtained, and on the basis of the change ratio ( $\Delta E / \Delta T$ ) with respect to the consumed energy, the subsequent target speed ( $V_n$ ) where the consumed energy (E) becomes minimum is obtained.

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**B61L 3/00; B61L 27/00**

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CPC (source: EP)

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Cited by

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