

Title (en)

DEVICE AND METHOD FOR OPERATING FIELD ELEMENTS ARRANGED LOCALLY ON A RAILWAY TRACK

Title (de)

EINRICHTUNG UND VERFAHREN ZUM BETREIBEN VON IN EINER GLEISANLAGE DEZENTRAL ANGEORDNETEN FELDELEMENTEN

Title (fr)

SYSTÈME ET PROCÉDÉ POUR FAIRE FONCTIONNER DES ÉLÉMENTS DE CHAMP MONTÉS DE MANIÈRE DÉCENTRALISÉE DANS UNE VOIE FERRÉE

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Abstract (en)

[origin: WO2018059881A1] The invention relates to a device for operating local electrical field elements (17, 18) arranged on a railway track with a signal box (1), which exchanges information with the local field elements (17, 18) by means of data messages, a data transport network (23), which is coupled to the signal box (1) and connected to the local field elements, and a power transport system (14), to which the local field elements (17, 18) are connected and that supplies the local field elements (17, 18) with electric power, wherein the power transport system (14) has power supply points (9, 10, 12, 13) that are arranged in a manner distributed along a power bus structure of the power transport system (14). The power supply points (9, 10, 12, 13) can be supplied with appropriate electric power by at least one independent power supply (6, 7). In order to optimise the power supply for the local field elements in such a device, the at least one power supply (6, 7) involves a monitoring device (4, 5) being arranged on the input side that can deliver a disturbance signal (S1, S2) from the power supply (6, 7) to the signal box (1). The signal box (1) is suitable for using the disturbance signal (S1, S2) to limit, in each case in energy-related fashion, a number of simultaneously operable field elements (17, 18) of the local field elements (17, 18). The invention also relates to a method for operating field elements arranged locally on a railway track.

IPC 8 full level

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