Title (en)

TRACTION ENERGY SUPPLY METHOD, IN PARTICULAR USING AN ENERGY SUPPLY SYSTEM FOR MOTOR VEHICLES, PREFERABLY FOR UTILITY VEHICLES FOR ELECTRICALLY OPERATED HEAVY GOODS TRAFFIC

Title (de)

TRAKTIONSENERGIEVERSORUNGSVERFAHREN, INSBESONDERE UNTER NUTZUNG EINES ENERGIEVERSORGUNGSSYSTEMS FÜR KRAFTFAHRZEUGE, VORZUGSWEISE FÜR NUTZFAHRZEUGE FÜR ELEKTRISCH BETRIEBENEN SCHWERVERKEHR

Title (fr)

PROCÉDÉ D'ALIMENTATION EN ÉNERGIE DE TRACTION, EN PARTICULIER FAISANT INTERVENIR UN SYSTÈME D'ALIMENTATION EN ÉNERGIE POUR VÉHICULES AUTOMOBILES, DE PRÉFÉRENCE POUR VÉHICULES UTILITAIRES POUR LE TRANSPORT LOURD ÉLECTRIQUE

Publication

EP 4217223 A1 20230802 (DE)

Application

EP 22808859 A 20221111

Priority

- DE 202021106214 U 20211112
- DE 202021106215 U 20211112
- DE 202022102525 U 20220509
- DE 102022125116 A 20220929
- EP 2022081655 W 20221111

Abstract (en)

[origin: WO2023084044A1] Line-supplied vehicles (220, 220I), each of which comprises at least one traction accumulator (240, 240I, 240II) as a buffer energy supply of a drive motor, is supplied with energy via at least two lines (260, 260I) and a respective energy supply tap (254, 254I) such as a pantograph (250, 250I). A transmission/receiving station (270, 270I), a computing unit (218, 218I), and a power control unit (211, 211I) are part of the energy supply process. On the basis of values of the computing unit, an output, an electric current, and/or an electric voltage which is provided via the lines is controlled using a parameter setting. In the process, the computing unit takes into consideration data received via the transmission/receiving station from at least one vehicle in a line-supplied track section (210, 210II). In an energy supply system (202) for electrically driven motor vehicles of the heavy goods traffic (201), the traction accumulators of the motor vehicles are provided with charging energy in order to simultaneously supply overhead voltage lines (260, 260I) provided on some sections of the track. A mobility system allows multiple electrically driven vehicles to be moved simultaneously in the electrically supplied track section.

IPC 8 full level

B60L 9/00 (2019.01); **B60L 50/53** (2019.01); **B60M 3/00** (2006.01); **G08G 1/00** (2006.01)

CPC (source: EP)

B60L 9/00 (2013.01); **B60L 50/53** (2019.01); **B60M 3/00** (2013.01); **B60M 7/003** (2013.01); G08G 1/22 (2013.01)

Citation (search report)

See references of WO 2023084044A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

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