

Title (en)

INTEGRATED ENERGY MANAGEMENT SYSTEM IN THE SCOPE OF AN INTERMODAL ROAD-RAIL TRANSPORT SYSTEM

Title (de)

INTEGRIERTES ENERGIEMANAGEMENTSYSTEM IM RAHMEN EINES INTERMODALEN STRASSENBAHN-TRANSPORTSYSTEMS

Title (fr)

SYSTÈME INTÉGRÉ DE GESTION D'ÉNERGIE DANS LE CADRE D'UN SYSTÈME DE TRANSPORT INTERMODAL ROUTE-RAIL

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Application

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Priority

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Abstract (en)

[origin: WO202219552A1] An energy management system in an intermodal mobility and physically integrated system between railway vehicles and electric or plug-in hybrid road vehicles both provided with energy storage systems comprising a train (TSE) provided with train batteries (BT) and with a railway contact line power supply (LDC/LCA), and a plurality of electric cars (BEV1, BEVn) loaded on board the train (TSE), wherein each electric car (BEVi) is provided with a car battery (BEi), wherein during the permanence of an electric car (BEVi) on the train (TSE) the electric power and storage systems (BEi, BT) of the electric car (BEVi) and the train (TSE) are connected and mutually exchange bi-directional energy flows, and wherein, in turn, the electric system of the train (TSE) exchanges energy flows with the electric system of the railway power supply line (LDC/LCA) and through it with other trains with energy storage (TSE2) and conventional trains (TT), thus achieving regulation of the electrical power and of the energy storage on three subsystem levels which comprise cars (BEVi), train (TSE) and railway contact line supply (LDC/LCA).

IPC 8 full level

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