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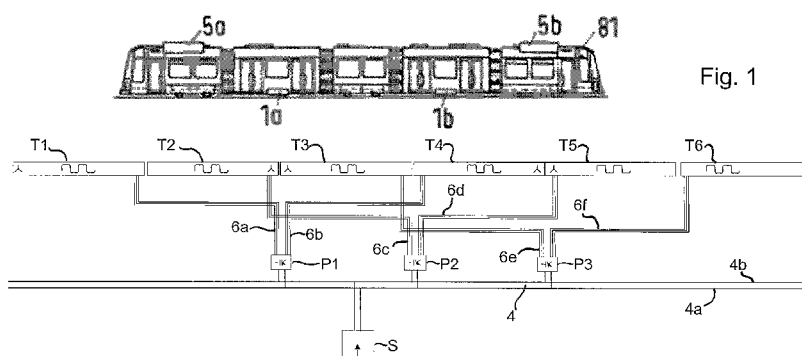
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(54) Title: SYSTEM AND METHOD FOR TRANSFERRING ELECTRIC ENERGY TO A VEHICLE USING SEGMENTS OF A CONDUCTOR ARRANGEMENT WHICH CAN BE OPERATED INDEPENDENTLY



(57) **Abstract:** The invention relates to a system for transferring electric energy to a vehicle, in particular to a track bound vehicle (81) such as a light rail vehicle or to a road automobile such as a bus, to a corresponding method of manufacturing the system and to a corresponding method of operating the system, wherein the system comprises at least one electric conductor arrangement for producing an alternating electromagnetic field and for thereby transferring electromagnetic energy to the vehicle, the conductor arrangement comprises a plurality of segments (T1, T2, T3, T4, T5, T6, T7, T8), wherein each segment (T1, T2, T3, T4, T5, T6, T7, T8) extends along a section of the path of travel of the vehicle (81), each segment (T1, T2, T3, T4, T5, T6, T7, T8) comprises one line for each phase of an alternating current which is to be carried by the segment (T1, T2, T3, T4, T5, T6, T7, T8) in order to produce the electromagnetic field, the system comprises a plurality of source units for providing the alternating current to the respective segment, the system comprises a current supply for conducting electric energy to the plurality of source units, the plurality of source units are connected in parallel to each other with respect to the current supply, at least a first source unit of the plurality of source units is connectable to each segment (T1, T4, T1_a, T4_a, T1_b, T4_b) of a first set of at least two segments (T1, T4, T1_a, T4_a, T1_b, T4_b) of the at least one conductor arrangement, wherein each neighboring segment (T2, T3, T5) of each segment (T1, T4, T1_a, T4_a, T1_b, T4_b) of the first set of segments (T1, T4, T1_a, T4_a, T1_b, T4_b) is exclusively connectable to another source unit.