extends along a section of the path of travel of the vehicle (81), wherein each segment 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,

- providing a plurality of source units,
- providing a current supply for conducting electric energy to the plurality of the source units, wherein the source units are electrically connected in parallel to each other with respect to the current supply,
- for each segment (T1, T2, T3, T4, T5, T6, T7, T8) providing a switchable electric connection of the segment (T1, T2, T3, T4, T5, T6, T7, T8) and a source unit such that for each segment (T1, T4) of at least a first set of at least two segments (T1, T4) an electrical connection between the segment (T1, T4) and a first source unit is provided,

characterized in that

- for each neighboring segment (T2, T3, T5) of each segment (T1, T4) of the first set of segments (T2, T4) an electrical connection between the neighboring segment (T2, T3, T5) and another source unit is provided, wherein the first source unit is designed and/or is arranged such that inherent impedances of the connections of the first source unit to the segments (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) are equal.

15) The method of claim 14, wherein the electric connections between the first source unit and the segments (T1, T4) of the first set of segments (T1, T4) are provided such that the first source unit is connectable exclusively to one segment (T1, T4) of the first set of segments (T1, T4).