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(54) **Title**: TRANSFERRING ELECTRIC ENERGY TO A VEHICLE

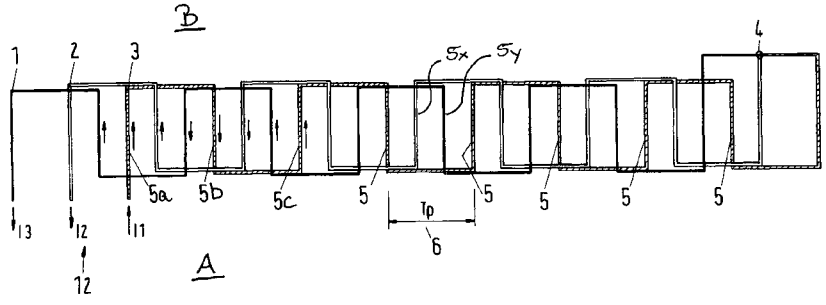


Fig.1

(57) **Abstract**: The invention relates to a system for transferring electric energy to a track bound vehicle, in particular to a light rail vehicle, such as a tram, wherein the system comprises an electric conductor arrangement (12) for producing an electromagnetic field and for thereby transferring the energy to the vehicle, the electric conductor arrangement (12) comprises at least one line (1, 2, 3) for carrying one phase of an alternating voltage or current, the line (1, 2, 3) extends along the track, the line (1, 2, 3) is arranged in such a manner that it produces - at each point in time while the alternating electric current is flowing through the line (1, 2, 3) - a row of successive magnetic poles (at sections 5) of an electromagnetic field, wherein the successive magnetic poles have alternating magnetic polarities, the row of successive magnetic poles extends in the travel direction of the vehicle which is defined by the track.

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