OAK RIDGE NATIONAL LABORATORY
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A Cost Effective In-Motion Wireless Charging System for Electric Vehicles

Disclosure Number

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Technology Summary

The invention relates to battery electric vehicles and more specifically to in-motion, wireless charging of such vehicles. In-motion or dynamic wireless charging of electric vehicles is a viable approach that can potentially address many of the issues faced by EVs. Some of these issues are the battery size, range, and charging duration. By using a multiple tapped isolation transformer, power is routed to each of the wireless power transmit coils/pads independently and without the need for duplicative and expensive electronic components. Therefore, in this case, there is only the need for multiple transmit pads.

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