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**GONZALEZ VIZUETE et al.**(10) **Pub. No.: US 2024/0213784 A1**(43) **Pub. Date: Jun. 27, 2024**(54) **SYSTEM FOR CONTROLLING RAILS OF  
BATTERY CHARGER TO INCREASE  
ELECTROMAGNETIC COMPATIBILITY****Publication Classification**(51) **Int. Cl.****H02J 7/00** (2006.01)**H02J 7/04** (2006.01)(52) **U.S. Cl.****CPC** ..... **H02J 7/0013** (2013.01); **H02J 7/04**  
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**ABSTRACT**

A charger includes first and second rail circuits and a controller. Each of the first and second rail circuits provide power when activated. The controller activates the first rail circuit without activating the second rail circuit in accordance with a determination that a power greater than a first power and less than a second power is to be provided. The controller activates the first and second rail circuits in accordance with a determination that a power greater than the second power is to be provided. A power difference between the second power and the first power is greater than the first power.

