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**Piech et al.**

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(54) **WIRELESS POWER SUPPLY FOR SELF-PROPELLED ELEVATOR**

(58) **Field of Classification Search**

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(57) **ABSTRACT**

An elevator system includes an elevator car having an elevator car subsystem; a guide rail to guide the elevator car along a hoistway; primary windings positioned along the hoistway; permanent magnets coupled to the elevator car, the primary windings and permanent magnets defining a linear motor for imparting motion to the elevator car in response to a drive signal; and secondary windings coupled to the elevator car, the secondary windings generating a current to power the elevator car subsystem.

**19 Claims, 5 Drawing Sheets**

