



US008749334B2

(12) **United States Patent**  
**Boys et al.**

(10) **Patent No.:** **US 8,749,334 B2**  
(45) **Date of Patent:** **Jun. 10, 2014**

- (54) **MULTI POWER SOURCED ELECTRIC VEHICLE**
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- (\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 782 days.

- (21) Appl. No.: **12/451,436**
- (22) PCT Filed: **May 9, 2008**
- (86) PCT No.: **PCT/NZ2008/000103**  
§ 371 (c)(1),  
(2), (4) Date: **Jan. 13, 2010**
- (87) PCT Pub. No.: **WO2008/140333**  
PCT Pub. Date: **Nov. 20, 2008**

(65) **Prior Publication Data**  
US 2010/0109604 A1 May 6, 2010

(30) **Foreign Application Priority Data**  
May 10, 2007 (NZ) ..... 555128  
Jul. 20, 2007 (NZ) ..... 556646

(51) **Int. Cl.**  
**H01F 27/32** (2006.01)

(52) **U.S. Cl.**  
USPC ..... **336/84 C**

(58) **Field of Classification Search**  
USPC ..... 336/84 R, 84 C, 200, 212, 232  
See application file for complete search history.

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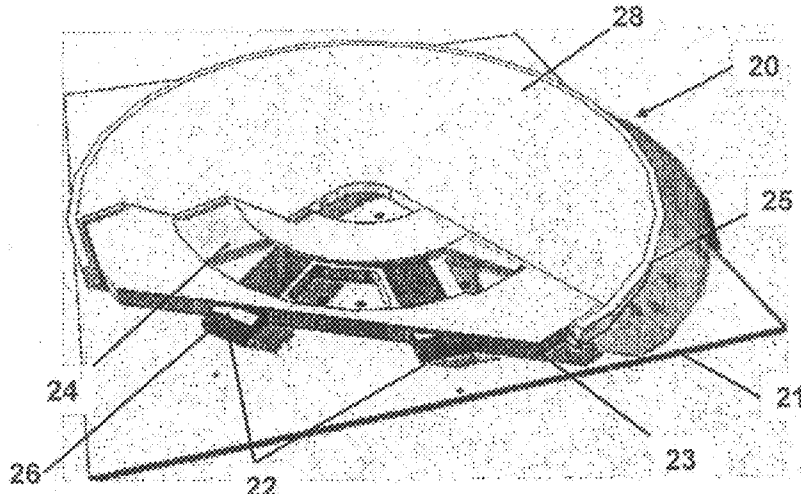
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(57) **ABSTRACT**

An inductive power transfer (IPT) pad and system for the charging of electric and hybrid electric vehicles. The batter of such a vehicle can be selectively coupled to a high power electrical supply for fast charging or a lower power electrical supply for charging using IPT. The batteries of the vehicles are used in a system to control the load demand in an electricity network through variations of the frequency of power supplied.

**35 Claims, 5 Drawing Sheets**



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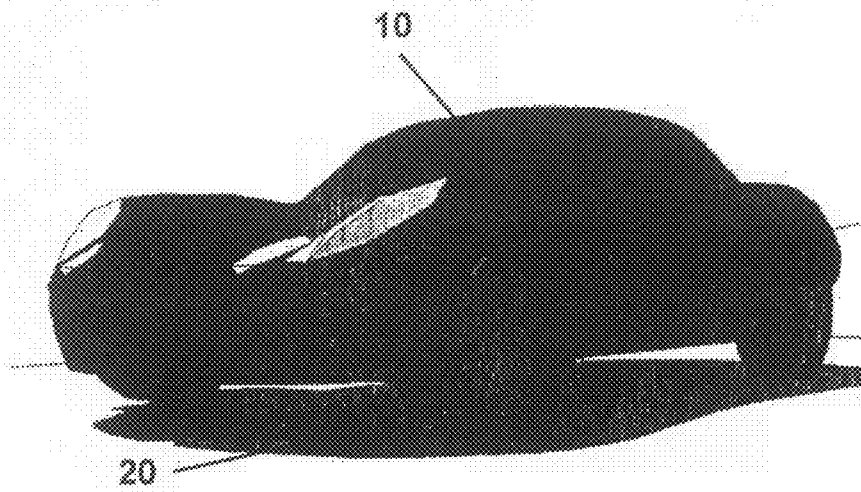


FIGURE 1

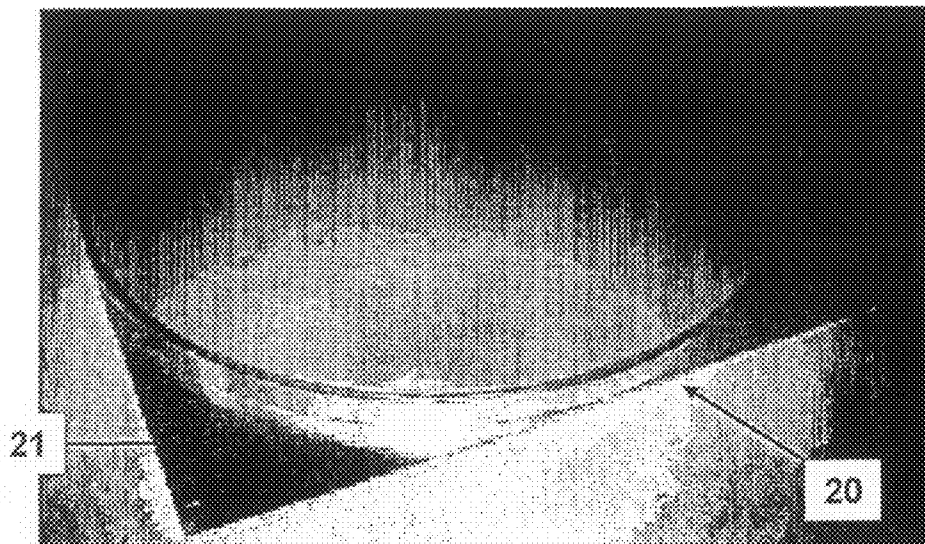


FIGURE 2

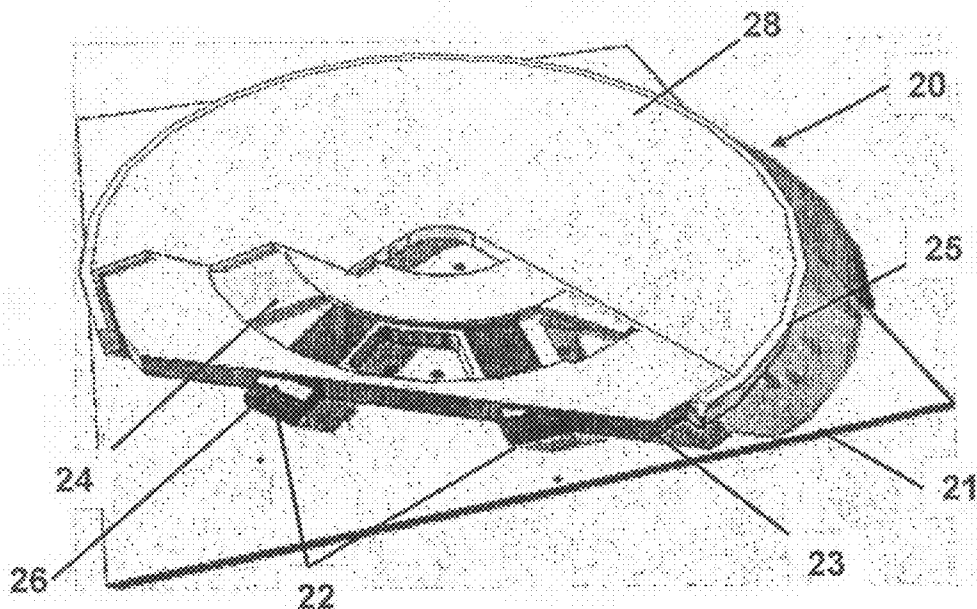


FIGURE 3

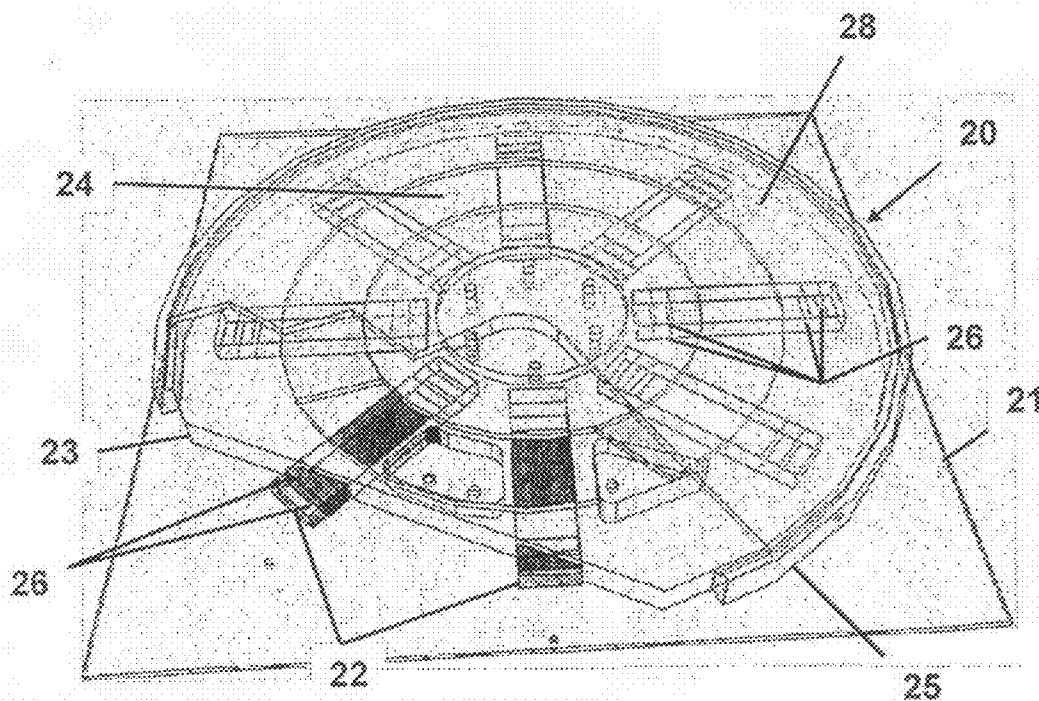


FIGURE 4

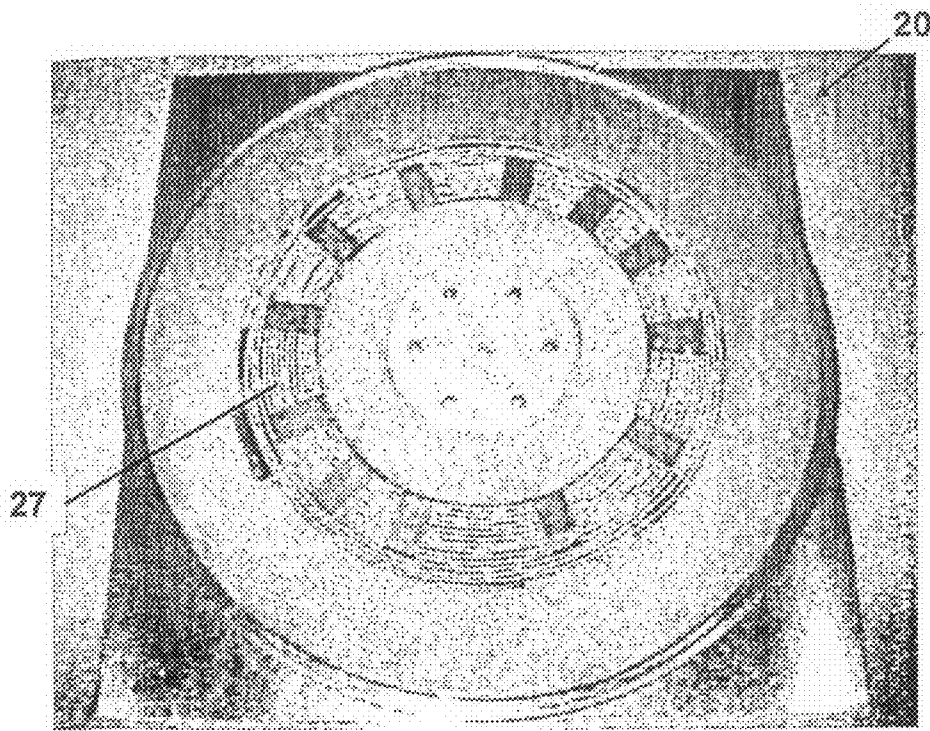


FIGURE 5



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