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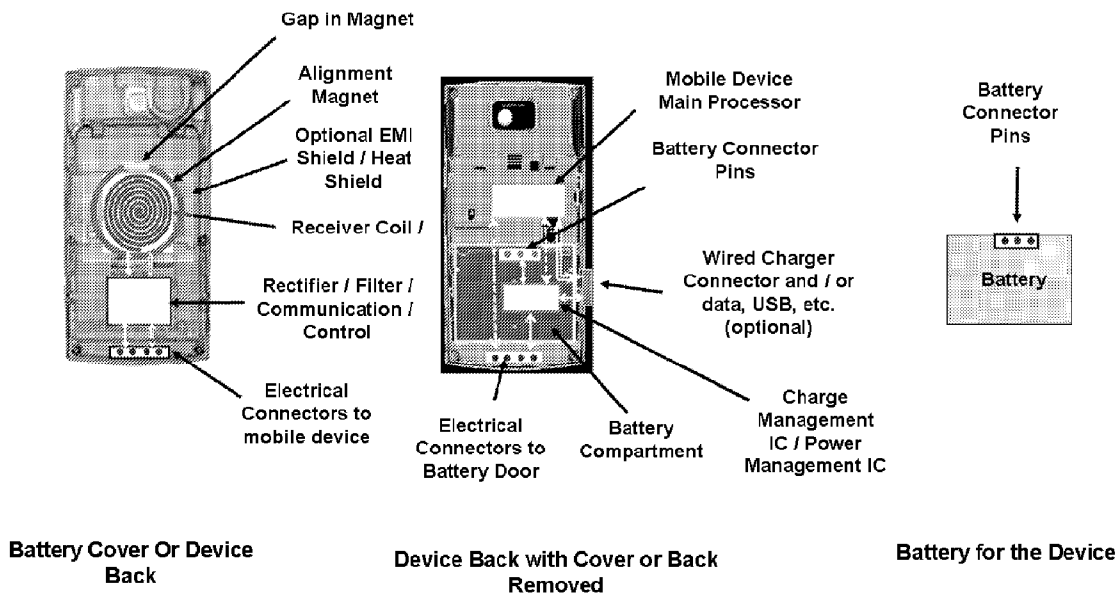
(19) **United States**(12) **Patent Application Publication**
Partovi et al.(10) **Pub. No.: US 2011/0050164 A1**(43) **Pub. Date: Mar. 3, 2011**(54) **SYSTEM AND METHODS FOR INDUCTIVE CHARGING, AND IMPROVEMENTS AND USES THEREOF****Publication Classification**(51) **Int. Cl.**
H02J 7/00 (2006.01)(52) **U.S. Cl.** **320/108**(57) **ABSTRACT**

Described herein are various systems and methods for use with power supplies and other power sources and chargers and particularly those that use inductive charging, including systems and methods for use thereof, such as improved transfer of wireless power to mobile devices and batteries. In accordance with some embodiments described herein, various methods are described by which the wired and/or wireless power devices and chargers or power supplies can provide additional connectivity and communications capabilities; methods by which the wireless power devices and chargers or power supplies can provide better thermal performance, better detection of external objects, and better power transfer efficiencies; different geometries and/or modes; techniques for enabling the charger to be powered by a power source from another device, such as the power available from the USB or PCMCIA port or similar; and other systems and methods to improve charging efficiency, usage, and other features.

(76) **Inventors:** **Afshin Partovi**, Sunnyvale, CA (US); **Michael Sears**, Ben Lomond, CA (US)(21) **Appl. No.:** **12/769,586**(22) **Filed:** **Apr. 28, 2010****Related U.S. Application Data**

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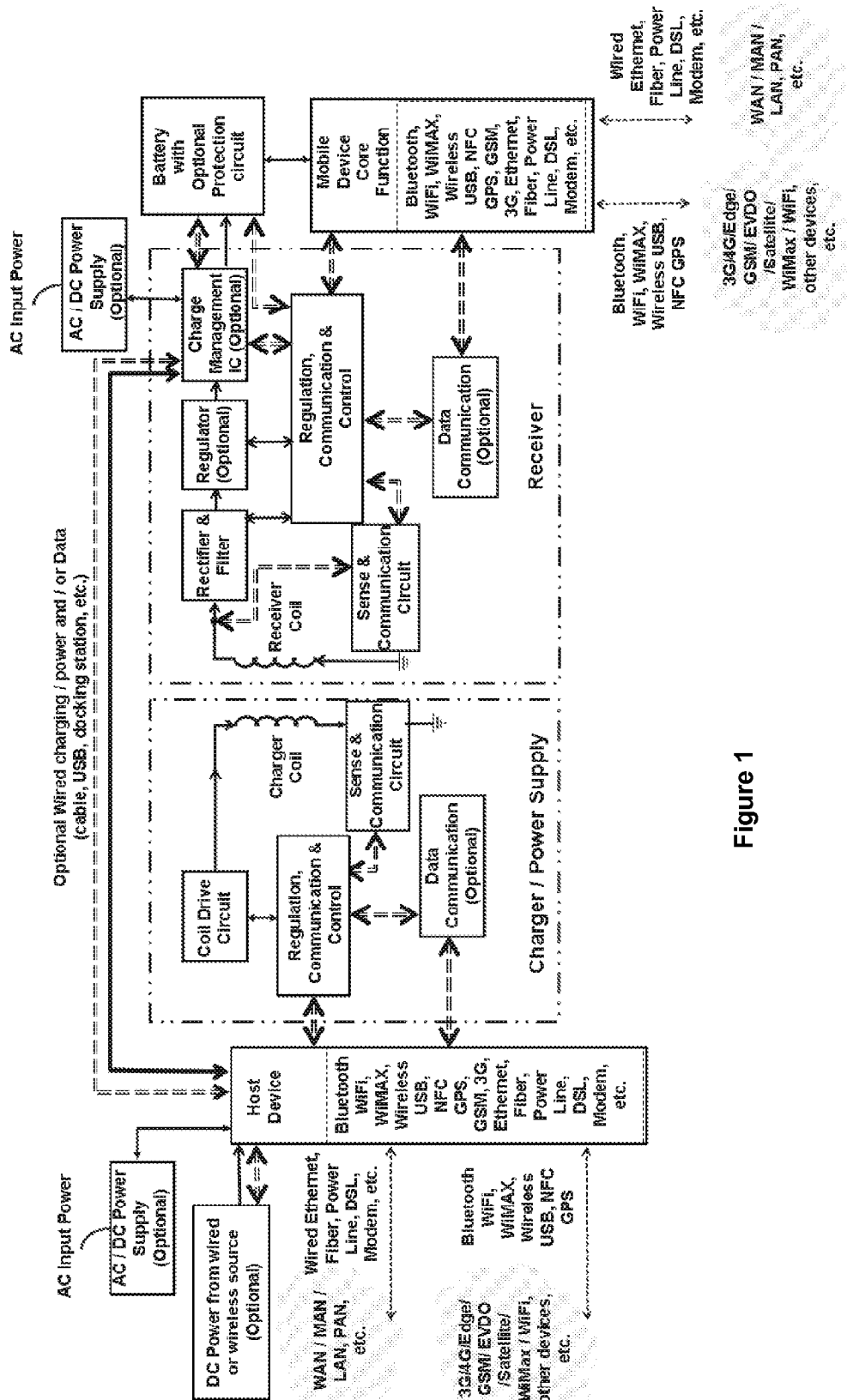


Figure 1

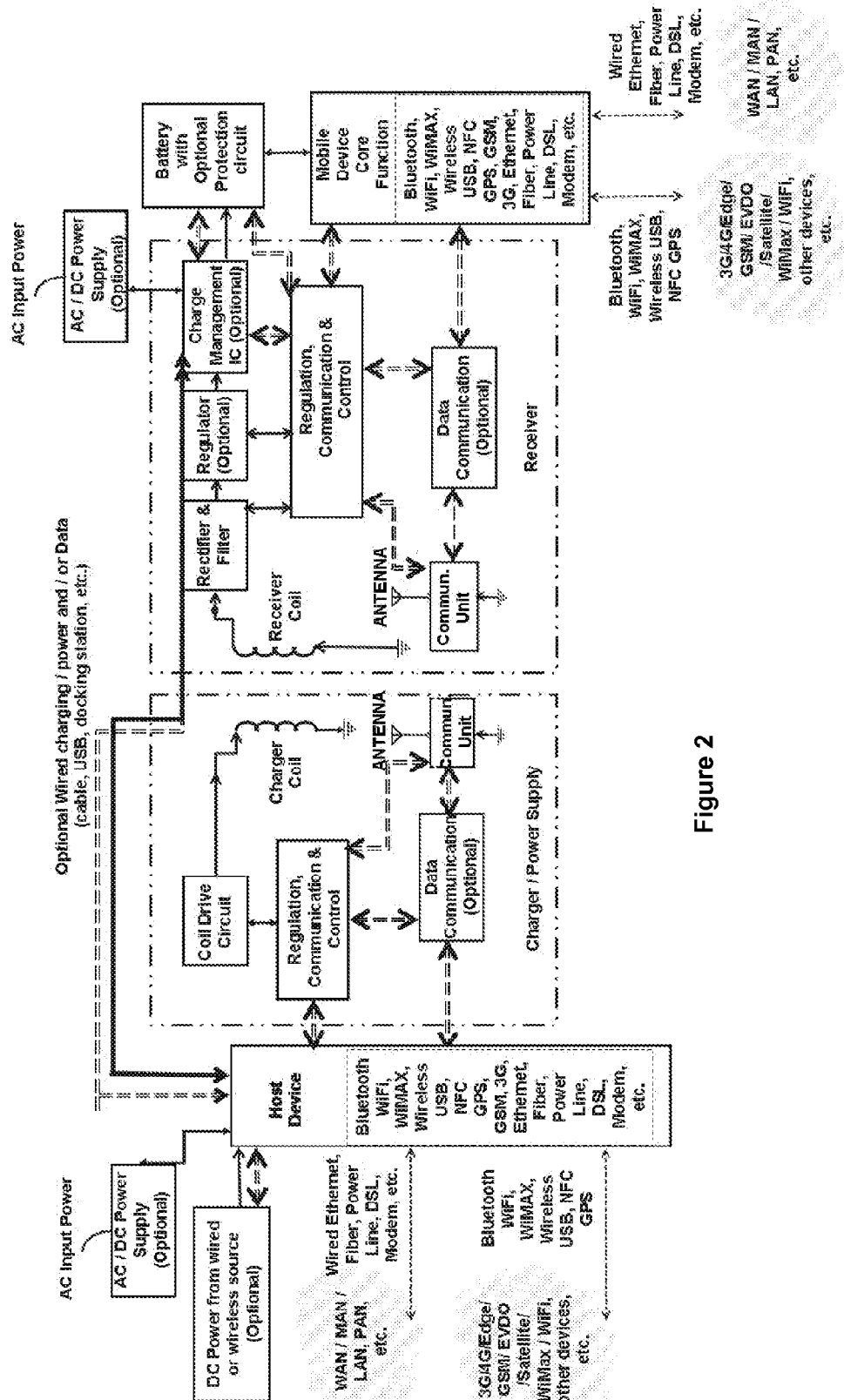


Figure 2

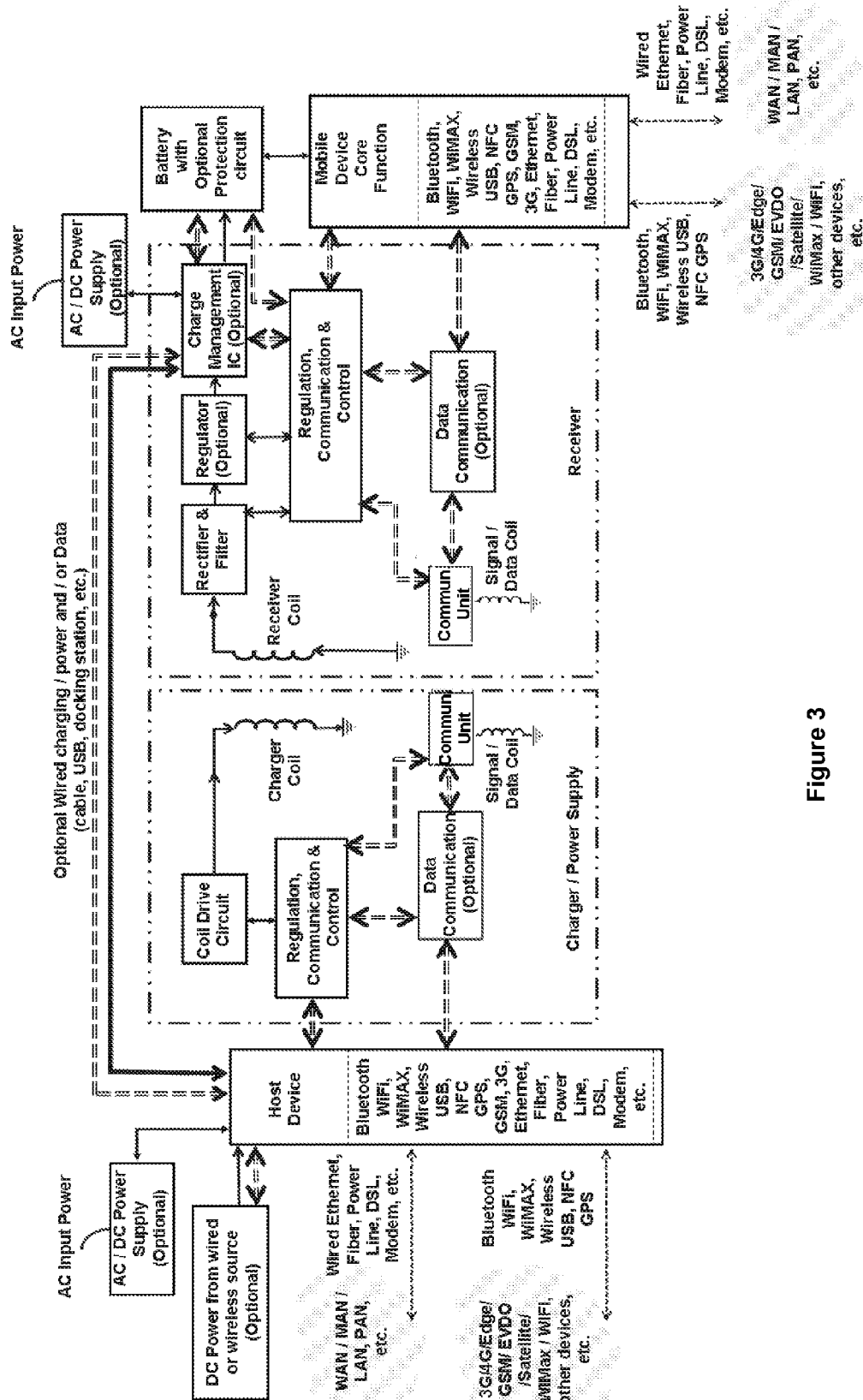


Figure 3

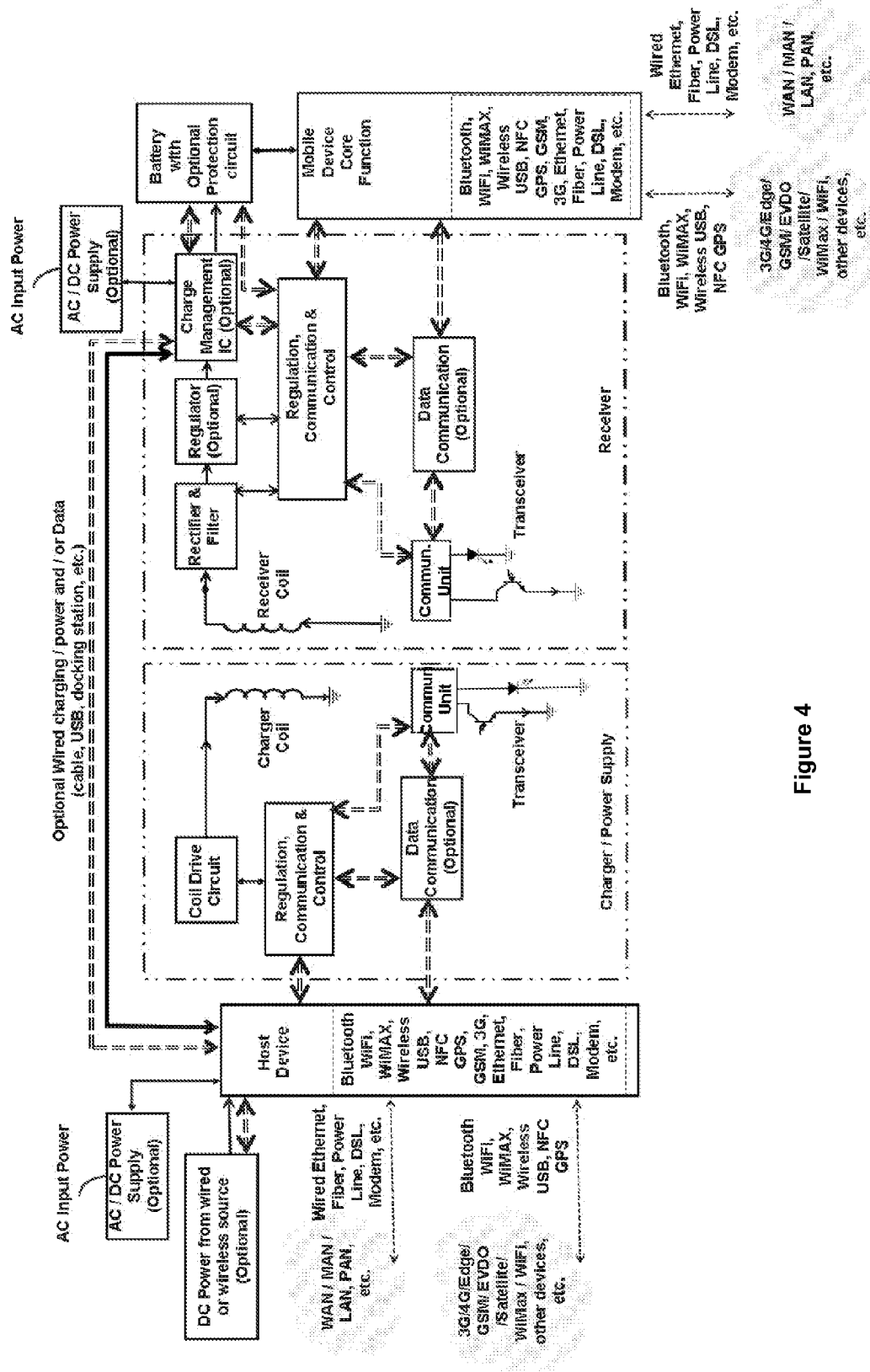


Figure 4

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