

Executive Summary

WIRELESS POWER TRANSMISSION for REMOTE SITE ELECTRONIC DEVICE RECHARGE

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This wireless power transmission system provides for the recharging of any type of mobile electronic device or electrical power equipment while in motion, stationary, and/or in use. This recharging system can be used on any electronic device: cell phones, laptops, PDAs, wheelchairs, Segway "People Movers", varied medical equipment, etc., increasing reliability and longevity between recharges. The wireless power beam can be microwave, laser, or any other power beam that can be transmitted over a substantial distance from the power transmitter to the device with minimal power attenuation in the atmosphere. This recharging/power system can be used on electrical power equipment: hand drills, hedge trimmers, snowblowers, etc., increasing operational reliability and longevity between recharges. The recharging system can be used for recreational vehicles such as golf carts, jet skis, snowmobiles, etc., reducing pollution and noise levels during operation, and improving convenience of operation.

On-board energy storage can be reduced significantly for any electrically powered portable device, reducing weight and allowing for component up-grades that require higher power levels.

Wireless power transmission will be the next multi-billion dollar high-tech innovation in electronics to power the many electrical devices used daily around the world.

Wireless communication is today's new technology; wireless power transmission is tomorrow's new technology.

The cost to produce a 40-watt demonstration recharge system is estimated to be \$35,000. A prototype stationary electronic appliance recharge system (laptop in use) would cost approximately \$1.5MM. A prototype stationary or mobile multi-device recharge system would cost approximately \$3.5MM.

This system is Patent Pending and a Continuation of US Patent Nos. 5,982,139, 6,114,834, 6,792,259, and 7,068,991 for the Remote Charging System for a Vehicle, or a portable or remote energy storage device.

Will license/sell technology, or sponsored support is requested to build a prototype all-electric vehicle with receiver on the vehicle and a remote power transmitter to demonstrate the usefulness of the system.

[3 References]

