

# **Power Patent Portfolio**

**January 15, 2009**

## **Overview**

This document provides a brief summary of iGo and the significant intellectual property protection that it has obtained with respect to its family of remotely programmable, AC, DC, and combination AC/DC power products. iGo, both for itself and the benefit of its customers, intends to vigorously pursue the protection of its intellectual property and maintains an active program to enforce these proprietary rights. iGo also intends to protect its intellectual property position in the power market by aggressively filing for additional patents on an ongoing basis.

## **iGo Power Solutions**

iGo is a leading provider of innovative products and solutions for the mobile electronics industry. iGo's power products focus on providing innovative solutions that allow mobile device users to operate and charge their devices in a vehicle, an airplane, a home or an office while simultaneously charging a secondary electronic device such as a mobile phone or PDA. The product family includes a broad range of power products for portable computers as well as a broad range of power products for consumer electronics products such as mobile phones, PDA's, digital cameras, MP3 players, and the like.

## **Proprietary Rights**

iGo primarily relies on a combination of patent protection, copyright and trademark laws, trade secrets, nondisclosure agreements and technical measures to protect its proprietary rights. iGo continuously files domestic and foreign patent applications to protect its technological position and new product development. To date, iGo has a total of 220 patents and patents pending to protect its innovative power technology, including 27 issued U.S. patents, 28 pending U.S. patents, 138 issued foreign patents, and 27 pending foreign patents in countries such as Finland, France, Germany, Greece, Ireland, Italy, Netherlands, Spain, Sweden, Switzerland, Turkey, United Kingdom, China, South Korea, Japan, Russia, Australia, Israel, South Africa, India, Norway, Singapore and Canada.

At a high level, iGo's patent protection covers any type of power supply remote programming, whether such programming is in the tip, the cable assemblies, or the base unit; the combination of AC and DC in one power product with remote programming; various techniques for combining AC and DC in one power product with or without remote programming; simultaneous charging of a secondary device with a power product; provision of battery back up on a combination AC/DC power adapter; certain retractable cable assemblies for a power products; and a variety of additional techniques and concepts related to the above.

Additionally, iGo has developed a proprietary architecture for its intelligent tips and tip interfaces that are backward compatible, ensuring that power tips are receivable only into power rated interfaces. iGo currently has over 100 patents and patents pending throughout the world with respect to this technology, and only authorized customers and partners of iGo will have access to this standard.

## **Customer Authorization**

iGo sells its power products through retailers such as RadioShack; private-label resellers such as Targus Group International; distributors such as Ingram Micro; and directly to end users through its iGo brand website, [www.igo.com](http://www.igo.com). All of these authorized parties have an appropriate license for iGo's technology and can legitimately sell products to their customers. Any unauthorized party that markets products containing iGo's proprietary technology will be pursued aggressively, along with their customers.

## **Markman Ruling**

On February 24, 2006, in connection with iGo's previous patent infringement lawsuit filed against Formosa Electronic Industries, Inc., the United States District Court for the Eastern District of Texas issued a Claim Construction Order, or "Markman ruling," that was extremely favorable to iGo. The ruling arose from a special proceeding required under U.S. patent law called a "Markman hearing," where both sides presented their arguments to the Court as to how they believed certain claims of the patents at issue in the lawsuit should be interpreted. In the ruling, the Court construed substantially all terms in iGo's favor, rejecting several of Formosa's attempts to avoid infringement of iGo's patents. A copy of the Court's Markman ruling is available at <http://www.corporate.igo.com/technology.aspx>.

## **Settlements**

The following is a list of some of the entities with which iGo has amicably resolved a dispute regarding the unauthorized use of its patented power technology:

- Formosa Electronic Industries, Inc.
- SPS Limited
- Micro Innovations Corp.
- Sakar International Inc.
- Worldwide Marketing Limited
- Ferris Marketing, Inc.
- OK Gear Electric Industrial Inc.
- Proten Inc.

iGo is continually searching to identify other potential infringers of its patented power technology and will continue to aggressively pursue and protect this proprietary technology.

# Issued United States Patents

Patent No.	Issue Date	Title	Summary of Patented Technology
5,347,211	09/13/94	Selectable Output Power Converter	A programmable power converter having a removable module programming the converter output voltage, such as replaceable tips. A programming resistor may be located in the tips, the cable, the base unit, or elsewhere.
6,064,177	05/16/00	Two-Part Battery Charger/Power Cable Article with Multiple Device Capability	A programmable power converter having a 2-part programming circuit, such as a programming tip and the brick circuitry. A programming resistor may be located in the tips, the cable, the base unit, or elsewhere.
6,433,274	08/13/02	Power Converter Device	A power converter with two retraction reels automatically and independently retracting an output power plug cable and an input power cable connectable to an accessory power input plug. A programming resistor may be located in the tips, the cable, the base unit, or elsewhere.
6,643,158	11/04/03	Dual Input AC/DC to Programmable DC Output Converter	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip. A programming resistor may be located in the tips, the cable, the base unit, or elsewhere.
6,650,560	11/18/03	Dual Input AC and DC Power Supply Having a Programmable DC Output Utilizing Single-Loop Optical Feedback	A dual input AC/DC programmable power converter having a single feedback loop. A programming resistor may be located in the tips, the cable, the base unit, or elsewhere.

## Issued United States Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>6,700,808</b>	03/02/04	Dual Input AC and DC Power Supply Having a Programmable DC Output Utilizing A Secondary Buck Converter	A dual input AC/DC power converter providing a primary selectable DC voltage output and a second DC output. The second DC output is adapted to power a portable device such as a mobile phone, PDA, and MP3 player.
<b>6,751,109</b>	06/15/04	Dual Input AC/DC Battery Operated Power Supply	A dual input battery assisted power converter providing a continuous, regulated DC voltage output to a mobile device, such as a laptop computer, PDA, or a mobile phone. A power storage circuit comprising the battery is detachable and may be a re-chargeable battery.
<b>6,775,163</b>	08/10/04	Dual Input AC/DC to Programmable DC Output Converter	A dual input AC/DC power converter having a first and second input circuit providing a respective predetermined voltage to a common node.
<b>6,791,853</b>	09/14/04	Dual Input AC/DC Power Converter Having a Programmable Peripheral Power Hub Module	A peripheral power hub (PPH) providing power to a plurality of outputs. The PPH provides multiple predetermined DC voltages, which may be converted by an associated voltage converter circuit to power an associated mobile device. Alternatively, the voltage converter circuits may be programmable and internal to the PPH.
<b>6,903,950</b>	06/07/05	Programmable Power Converter	A programmable power converter having a programming module, the programming module being configurable exterior of the power converter. The power converter may be programmed using a removable memory device such as an EPROM. Alternatively, the power converter may be programmed by coupling a programming device thereto, such as at POS. The programming may also be provided via the internet or other communications link.

## Issued United States Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>D506,981</b>	07/05/05	Connector	5 watt receptacle.
<b>D507,536</b>	07/19/05	Connector	35 watt receptacle.
<b>D507,537</b>	07/19/05	Connector	35 watt tip.
<b>6,920,056</b>	07/19/05	Dual Input AC and DC Power Supply Having a Programmable DC Output Utilizing Single-Loop Optical Feedback	A dual input AC/DC programmable power converter having a single feedback loop.
<b>D508,022</b>	08/02/05	Connector	15 watt tip.
<b>D508,678</b>	08/23/05	Connector	15 watt receptacle.
<b>6,937,490</b>	08/30/05	Dual Input AC and DC Power Supply Having a Programmable DC Output Utilizing A Secondary Buck Converter	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip. A programming resistor may be located in the tips, the cable, the base unit, or elsewhere.
<b>D510,070</b>	09/27/05	Connector	25 watt tip.
<b>6,976,885</b>	12/20/05	Keyed Universal Power Tip and Power Source Connectors	Keyed power tips and tip interfaces that are backward compatible, ensuring that power tips are receivable only into power rated interfaces.

## Issued United States Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>D517,012</b>	03/14/06	Connector	25 watt receptacle.
<b>7,027,300</b>	04/11/06	Compact Electronics Plenum	A heat cooling system including a plenum to remove heat from ultra-compact devices including power converters, transmitters, amplifiers, etc.
<b>D530,281</b>	10/17/06	Connector	5 watt connector.
<b>7,139,181</b>	11/21/06	Power Converter Having Temperature Compensated Output Power	A power converter reducing a maximum available output power during extreme operating temperature conditions in order to maintain the power converter housing within acceptable operating temperatures.
<b>7,153,169</b>	12/26/06	Power Compatible Universal Power Tip	Keyed power tips and tip interfaces that are backward compatible, ensuring that power tips are receivable only into power rated interfaces.
<b>7,201,611</b>	4/10/07	Docking System to Attach and Retain Multiple Electronic Devices Simultaneously on a Surface	Docking System to Attach and Retain Multiple Electronic Devices Simultaneously on a Surface
<b>7,352,158</b>	04/01/08	Sepic Synchronous Rectification	A SEPIC converter having synchronous rectification, accommodating changes in the converter duty cycle, and the ringing conditions when the converter changes operation from a continuous mode to a discontinuous mode, and back.

## Issued United States Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
7,388,305	06/17/08	AC/DC Converter Having Single Detectable Input	A power converter that utilizes only a single input cable, eliminating the need to manage multiple cables.

# Pending United States Patents

Serial No.	Title
<b>Case A</b>	Connector
<b>Case B</b>	Connector
<b>Case C</b>	Portable Device Having Integral Voltage Connector
<b>Case D</b>	Retractable Cable System for Power Converter
<b>Case E</b>	Power Converter Having Housing with Improved Thermal Properties
<b>Case F</b>	Power Converter Having Airplane Power Source Detector
<b>Case G</b>	Integrated Power Converter with I/O Connection
<b>Case H</b>	Dual Input AC and DC Power Supply Having a Programmable DC Output Utilizing a Secondary Buck Converter
<b>Case I</b>	Power Supply With Electrostatic Cooling Fan
<b>Case J</b>	Power Converter Having Multiple Layer Heat Sinks
<b>Case K</b>	Power Converter with Integral Battery
<b>Case L</b>	Connector
<b>Case M</b>	Connector
<b>Case N</b>	Connector

# Pending United States Patents (Cont'd)

<b>Serial No.</b>	<b>Title</b>
<b>Case O</b>	Connector
<b>Case P</b>	Magnetostriction Aided Switching
<b>Case Q</b>	Magnetostriction Air Pump
<b>Case R</b>	Power Converter Connector
<b>Case S</b>	Serial Channel Emulator
<b>Case T</b>	Output Power Port Management Control
<b>Case U</b>	System and Method for Cable Resistance Cancellation
<b>Case V</b>	System and Method Using a Current Mirror to Program an Output Voltage and Current
<b>Case W</b>	Power Converter Including Auxiliary Battery Charger
<b>Case X</b>	Load Condition Controlled Power Strip
<b>Case Y</b>	Primary Side Controller Monitoring Circuit and Method
<b>Case Z</b>	Load Condition Controlled Power Module
<b>Case AA</b>	Load Condition Controlled Wall Plate Outlet System
<b>Case BB</b>	Circuit and Method for Ultra-Low Idle Power

# Issued Foreign Patents

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>196600</b>	02/4/04	15 Watt Receptacle – Solid Lines	iTip design patent – India
<b>196603</b>	02/4/04	35 Watt Connector – Solid Lines	iTip design patent – India
<b>196604</b>	02/04/04	25 Watt Receptacle – Solid Lines	iTip design patent – India
<b>196606</b>	02/04/04	25 Watt Connector – Solid Lines	iTip design patent – India
<b>196602</b>	02/04/04	5 Watt Connector – Solid Lines	iTip design patent – India
<b>196605</b>	05/26/04	35 Watt Receptacle – Solid Lines	iTip design patent – India
<b>196601</b>	05/26/04	5 Watt Receptacle – Solid Lines	iTip design patent – India
<b>300038</b>	08/13/04	5 Watt Receptacle – Dashed Lines	iTip design patent – Australia
<b>300037</b>	08/13/04	5 Watt Connector – Solid Lines	iTip design patent – Australia

## Issued Foreign Patents

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>300125</b>	08/25/04	5 Watt Receptacle – Solid Lines	iTip design patent – Australia
<b>300126</b>	08/25/04	5 Watt Plug Only	iTip design patent – Australia
<b>300127</b>	08/25/04	5 Watt Connector – Dashed Lines	iTip design patent – Australia
<b>000188958/ 0001-0006</b>	09/21/04	15,25,35 Watt Connector/ Receptacle	iTip design patent – Europe
<b>D2004/1351/A</b>	11/03/04	5 Watt Connector	iTip design patent – Singapore
<b>D2004/1352/H</b>	11/03/04	5 Watt Receptacle	iTip design patent – Singapore
<b>D2004/1353/D</b>	11/03/04	15 Watt Connector	iTip design patent – Singapore
<b>D2004/1354/J</b>	11/03/04	15 Watt Receptacle	iTip design patent – Singapore
<b>D2004/1355/G</b>	11/03/04	25 Watt Connector	iTip design patent – Singapore
<b>D2004/1356/C</b>	11/03/04	25 Watt Receptacle	iTip design patent – Singapore
<b>D2004/1357/Z</b>	11/03/04	35 Watt Connector	iTip design patent – Singapore

## Issued Foreign Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>D2004/1358/F</b>	11/03/04	35 Watt Receptacle	iTip design patent – Singapore
<b>000213889/ 0001-0002</b>	11/03/04	5 Watt Connector/ Receptacle	iTip design patent – Europe
<b>157405</b>	01/31/05	15 Watt Connector – Dashed Lines	iTip design patent – Australia
<b>157403</b>	01/31/05	25 Watt Connector – Dashed Lines	iTip design patent – Australia
<b>157402</b>	01/31/05	35 Watt Connector – Dashed Lines	iTip design patent – Australia
<b>157401</b>	01/31/05	15 Watt Receptacle – Dashed Lines	iTip design patent – Australia
<b>157400</b>	01/31/05	25 Watt Receptacle – Dashed Lines	iTip design patent – Australia
<b>157399</b>	01/31/05	35 Watt Receptacle – Dashed Lines	iTip design patent – Australia
<b>157406</b>	01/31/05	25 Watt Connector – Solid Lines	iTip design patent – Australia

## Issued Foreign Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>157404</b>	01/31/05	15 Watt Connector – Solid Lines	iTip design patent – Australia
<b>0374277</b>	02/02/05	5 Watt Connector Dashed Lines	iTip design patent – South Korea
<b>157505</b>	02/09/05	35 Watt Connector – Solid Lines	iTip design patent – Australia
<b>157504</b>	02/09/05	15 Watt Receptacle – Solid Lines	iTip design patent – Australia
<b>157503</b>	02/09/05	25 Watt Receptacle – Solid Lines	iTip design patent – Australia
<b>157502</b>	02/09/05	35 Watt Receptacle – Solid Lines	iTip design patent – Australia
<b>157507</b>	02/09/05	15 Watt Plug Only	iTip design patent – Australia
<b>157506</b>	02/09/05	25 Watt Plug Only	iTip design patent – Australia
<b>157508</b>	02/09/05	35 Watt Plug Only	iTip design patent – Australia

## Issued Foreign Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>0377156</b>	03/11/05	5 Watt Receptacle Dashed Lines	iTip design patent – South Korea
<b>0374277</b>	03/11/05	15 Watt Connector Dashed Lines	iTip design patent – South Korea
<b>0377156</b>	03/11/05	15 Watt Receptacle Dashed Lines	iTip design patent – South Korea
<b>0374277</b>	03/11/05	25 Watt Connector Dashed Lines	iTip design patent – South Korea
<b>0377156</b>	03/11/05	25 Watt Receptacle Dashed Lines	iTip design patent – South Korea
<b>0374277</b>	03/11/05	35 Watt Connector Dashed Lines	iTip design patent – South Korea
<b>0377156</b>	03/11/05	35 Watt Receptacle Dashed Lines	iTip design patent – South Korea
<b>2,454,044 Canada</b>	05/10/05	Dual Input AC and DC Power Supply Having a Programmable DC Output	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip.

## Issued Foreign Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>A2004/1000</b>	05/11/05	5 Watt Receptacle – Dashed/Solid Lines	iTip design patent – South Africa
<b>A2004/1001</b>	05/11/05	5 Watt Connector – Dashed/Solid Lines	iTip design patent – South Africa
<b>A2004/1002</b>	05/11/05	15 Watt Receptacle – Dashed/Solid Lines	iTip design patent – South Africa
<b>A2004/1003</b>	05/11/05	15 Watt Connector – Dashed/Solid Lines	iTip design patent – South Africa
<b>A2004/1004</b>	05/11/05	25 Watt Receptacle – Dashed/Solid Lines	iTip design patent – South Africa
<b>A2004/1005</b>	05/11/05	25 Watt Connector – Dashed/Solid Lines	iTip design patent – South Africa
<b>A2004/1006</b>	05/11/05	35 Watt Receptacle – Dashed/Solid Lines	iTip design patent – South Africa

## Issued Foreign Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>A2004/1007</b>	05/11/05	35 Watt Connector – Dashed/Solid Lines	iTip design patent – South Africa
<b>ZL200430078054.7</b>	06/15/05	25 Watt Connector / Receptacle – Solid Lines	iTip design patent – China
<b>2004/0930 South Africa</b>	07/27/05	Dual Input AC and DC Power Supply Having a Programmable DC Output	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip.
<b>102847 Singapore</b>	07/29/05	Dual Input AC and DC Power Supply Having a Programmable DC Output	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip.
<b>ZL200430078053.2</b>	09/07/05	15 Watt Connector / Receptacle – Solid Lines	iTip design patent – China
<b>2002342210 Australia</b>	09/16/05	Dual Input AC/DC Battery Operated Power Supply	A dual input battery assisted power converter providing a continuous, regulated DC voltage output to a mobile device, such as a laptop computer, PDA, or a mobile phone. A power storage circuit comprising the battery is detachable and may be a re-chargeable battery.

## Issued Foreign Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>1440502 Europe</b>	10/05/05	Dual Input AC and DC Power Supply Having a Programmable DC Output	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip.
<b>1440502 Finland</b>	10/05/05	Dual Input AC and DC Power Supply Having a Programmable DC Output	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip.
<b>1440502 France</b>	10/05/05	Dual Input AC and DC Power Supply Having a Programmable DC Output	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip.
<b>1440502 Germany</b>	10/05/05	Dual Input AC and DC Power Supply Having a Programmable DC Output	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip.
<b>1440502 Greece</b>	10/05/05	Dual Input AC and DC Power Supply Having a Programmable DC Output	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip.
<b>1440502 Ireland</b>	10/05/05	Dual Input AC and DC Power Supply Having a Programmable DC Output	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip.

## Issued Foreign Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>1440502 Italy</b>	10/05/05	Dual Input AC and DC Power Supply Having a Programmable DC Output	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip.
<b>1440502 Netherlands</b>	10/05/05	Dual Input AC and DC Power Supply Having a Programmable DC Output	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip.
<b>1440502 Spain</b>	10/05/05	Dual Input AC and DC Power Supply Having a Programmable DC Output	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip.
<b>1440502 Sweden</b>	10/05/05	Dual Input AC and DC Power Supply Having a Programmable DC Output	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip.
<b>1440502 Switzerland</b>	10/05/05	Dual Input AC and DC Power Supply Having a Programmable DC Output	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip.
<b>1440502 Turkey</b>	10/05/05	Dual Input AC and DC Power Supply Having a Programmable DC Output	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip.

## Issued Foreign Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>1440502</b> <b>United Kingdom</b>	10/05/05	Dual Input AC and DC Power Supply Having a Programmable DC Output	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip.
<b>78963</b>	10/17/05	5-35 Watt Connector / Receptacle	iTip design patent – Norway
<b>107880</b>	12/13/05	5 Watt Connector Dashed/Solid Lines	iTip design patent – Canada
<b>107881</b>	12/13/05	5 Watt Receptacle Dashed/Solid Lines	iTip design patent – Canada
<b>107882</b>	12/13/05	15 Watt Connector Dashed/Solid Lines	iTip design patent – Canada
<b>107883</b>	12/13/05	15 Watt Receptacle Dashed/Solid Lines	iTip design patent – Canada
<b>107884</b>	12/13/05	25 Watt Connector Dashed/Solid Lines	iTip design patent – Canada
<b>107885</b>	12/13/05	25 Watt Receptacle Dashed/Solid Lines	iTip design patent – Canada
<b>107886</b>	12/13/05	35 Watt Connector Dashed/Solid Lines	iTip design patent – Canada
<b>107887</b>	12/13/05	35 Watt Receptacle Dashed/Solid Lines	iTip design patent – Canada

## Issued Foreign Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>1,263,015</b>	01/6/06	5 Watt Connector Dashed / Solid Lines	iTip design patent – Japan
<b>1,263,016</b>	01/6/06	5 Watt Receptacle Dashed/Solid Lines	iTip design patent – Japan
<b>1440503 Europe</b>	02/22/06	Dual Input AC/DC Battery Operated Power Supply	A dual input battery assisted power converter providing a continuous, regulated DC voltage output to a mobile device, such as a laptop computer, PDA, or a mobile phone. A power storage circuit comprising the battery is detachable and may be a re-chargeable battery.
<b>1440503 Great Britain</b>	02/22/06	Dual Input AC/DC Battery Operated Power Supply	A dual input battery assisted power converter providing a continuous, regulated DC voltage output to a mobile device, such as a laptop computer, PDA, or a mobile phone. A power storage circuit comprising the battery is detachable and may be a re-chargeable battery.
<b>1440503 France</b>	02/22/06	Dual Input AC/DC Battery Operated Power Supply	A dual input battery assisted power converter providing a continuous, regulated DC voltage output to a mobile device, such as a laptop computer, PDA, or a mobile phone. A power storage circuit comprising the battery is detachable and may be a re-chargeable battery.

## Issued Foreign Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>1440503 Germany</b>	02/22/06	Dual Input AC/DC Battery Operated Power Supply	A dual input battery assisted power converter providing a continuous, regulated DC voltage output to a mobile device, such as a laptop computer, PDA, or a mobile phone. A power storage circuit comprising the battery is detachable and may be a re-chargeable battery.
<b>1440503 Netherlands</b>	02/22/06	Dual Input AC/DC Battery Operated Power Supply	A dual input battery assisted power converter providing a continuous, regulated DC voltage output to a mobile device, such as a laptop computer, PDA, or a mobile phone. A power storage circuit comprising the battery is detachable and may be a re-chargeable battery.
<b>1440503 Italy</b>	02/22/06	Dual Input AC/DC Battery Operated Power Supply	A dual input battery assisted power converter providing a continuous, regulated DC voltage output to a mobile device, such as a laptop computer, PDA, or a mobile phone. A power storage circuit comprising the battery is detachable and may be a re-chargeable battery.
<b>1440503 Spain</b>	02/22/06	Dual Input AC/DC Battery Operated Power Supply	A dual input battery assisted power converter providing a continuous, regulated DC voltage output to a mobile device, such as a laptop computer, PDA, or a mobile phone. A power storage circuit comprising the battery is detachable and may be a re-chargeable battery.
<b>1,271,544</b>	03/31/06	15 Watt Receptacle Dashed/Solid Lines	iTip design patent – Japan

## Issued Foreign Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>1,271,011</b>	03/31/06	25 Watt Receptacle Dashed/Solid Lines	iTip design patent – Japan
<b>1,271,545</b>	03/31/06	35 Watt Connector Dashed/Solid Lines	iTip design patent – Japan
<b>1,271,543</b>	03/31/06	15 Watt Connector Dashed/Solid Lines	iTip design patent – Japan
<b>1,271,012</b>	03/31/06	25 Watt Receptacle Dashed/Solid Lines	iTip design patent – Japan
<b>1,271,546</b>	03/31/06	35 Watt Receptacle Dashed/Solid Lines	iTip design patent – Japan
<b>2274939 Russia</b>	04/20/06	Dual Input AC and DC Power Supply Having a Programmable DC Output	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip.
<b>59313</b>	06/16/06	5-35 Watt Connectors – Solid Lines	iTip design patent – Russia
<b>59315</b>	06/16/06	5-35 Watt Receptacles – Solid Lines	iTip design patent – Russia
<b>10-0623822 Korea</b>	09/06/06	Dual Input AC/DC Battery Operated Power Supply	A dual input battery assisted power converter providing a continuous, regulated DC voltage output to a mobile device, such as a laptop computer, PDA, or a mobile phone. A power storage circuit comprising the battery is detachable and may be a re-chargeable battery.

## Issued Foreign Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>2283521 Russia</b>	09/10/06	Keyed Universal Power Tip and Power Source Connectors	Keyed power tips and tip interfaces that are backward compatible, ensuring that power tips are receivable only into power rated interfaces.
<b>2004 3437 Norway</b>	09/21/06	Keyed Universal Power Tip and Power Source Connectors	Keyed power tips and tip interfaces that are backward compatible, ensuring that power tips are receivable only into power rated interfaces.
<b>39540</b>	09/27/06	5-35 Watt Connector/ Receptacle Dashed/Solid Lines	iTip design patent – Israel
<b>41587</b>	9/27/06	25 Watt Connector	iTip design patent – Israel
<b>41584</b>	9/27/06	5 Watt Receptacle	iTip design patent – Israel
<b>41586</b>	9/27/06	15 Watt Receptacle	iTip design patent – Israel
<b>41585</b>	9/27/06	15 Watt Connector	iTip design patent – Israel
<b>41588</b>	09/27/06	25 Watt connector	iTip design patent – Israel
<b>41590</b>	09/27/06	35 Watt Connector	iTip design patent – Israel
<b>41589</b>	09/27/06	35 Watt Connector	iTip design patent – Israel

## Issued Foreign Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>10-0636611</b> South Korea	10/13/06	Dual Input AC and DC Power Supply Having a Programmable DC Output	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip.
<b>10-0647383</b>	11/10/06	Keyed Universal Power Tip and Power Source Connectors	Keyed power tips and tip interfaces that are backward compatible, ensuring that power tips are receivable only into power rated interfaces.
<b>114339</b>	12/11/06	5 Watt Connector Dashed / Solid Lines	iTip design patent – Taiwan
<b>114340</b>	12/11/06	5 Watt Receptacle Dashed / Solid Lines	iTip design patent – Taiwan
<b>114341</b>	12/11/06	15 Watt Connector Dashed/Solid Lines	iTip design patent – Taiwan
<b>114342</b>	12/11/06	15 Watt Receptacle Dashed/Solid Lines	iTip design patent – Taiwan
<b>114343</b>	12/11/06	25 Watt Connector Dashed/Solid Lines	iTip design patent – Taiwan
<b>114344</b>	12/11/06	25 Watt Receptacle Dashed/Solid Lines	iTip design patent – Taiwan
<b>114345</b>	12/11/06	35 Watt Connector Dashed/Solid Lines	iTip design patent – Taiwan

## Issued Foreign Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>114346</b>	12/11/06	35 Watt Receptacle Dashed/Solid Lines	iTip design patent – Taiwan
<b>2002242115 Australia</b>	01/05/07	Dual Input AC and DC Power Supply Having a Programmable DC Output	A dual input AC/DC programmable power converter. The output voltage is established by a removable programming module, such as an interchangeable tip.
<b>ZL20043007 8055.1</b>	03/07/07	35 Watt Connector / Receptacle – Solid Lines	iTip design patent – China
<b>1627452 Europe</b>	04/25/07	Keyed Universal Power Tip and Power Source Connectors	Keyed power tips and tip interfaces that are backward compatible, ensuring that power tips are receivable only into power rated interfaces.
<b>1627452 Turkey</b>	04/25/07	Keyed Universal Power Tip and Power Source Connectors	Keyed power tips and tip interfaces that are backward compatible, ensuring that power tips are receivable only into power rated interfaces.
<b>2,466,162 Canada</b>	07/24/07	Dual Input AC/DC Battery Operated Power Supply	A dual input battery assisted power converter providing a continuous, regulated DC voltage output to a mobile device, such as a laptop computer, PDA, or a mobile phone. A power storage circuit comprising the battery is detachable and may be a re-chargeable battery.

## Issued Foreign Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>2,533,086</b> <b>Canada</b>	09/11/07	Programmable Power Converter	A programmable power converter having a programming module, the programming module being configurable exterior of the power converter. The power converter may be programmed using a removable memory device such as an EPROM. Alternatively, the power converter may be programmed by coupling a programming device thereto, such as at POS. The programming may also be provided via the internet or other communications link.
<b>122062</b> <b>Singapore</b>	09/28/07	Keyed Universal Power Tip and Power Source Connectors	Keyed power tips and tip interfaces that are backward compatible, ensuring that power tips are receivable only into power rated interfaces.
<b>2004302167</b> <b>Australia</b>	09/28/07	Programmable Power Converter	A programmable power converter having a programming module, the programming module being configurable exterior of the power converter. The power converter may be programmed using a removable memory device such as an EPROM. Alternatively, the power converter may be programmed by coupling a programming device thereto, such as at POS. The programming may also be provided via the internet or other communications link.
<b>2308143</b> <b>Russia</b>	10/10/07	Dual Input AC and DC Power Supply Having a Programmable DC Output Utilizing A Secondary Buck Converter	A dual input AC/DC power converter providing a primary selectable DC voltage output and a second DC output. The second DC output is adapted to power a portable device such as a mobile phone, PDA, and MP3 player.

## Issued Foreign Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>2004208705 Australia</b>	12/13/07	Keyed Universal Power Tip and Power Source Connectors	Keyed power tips and tip interfaces that are backward compatible, ensuring that power tips are receivable only into power rated interfaces.
<b>ZL20043007 8056.6</b>	12/19/07	5 Watt Connector / Receptacle Solid Lines	iTip design patent – China
<b>200600346-1 Singapore</b>	01/31/08	Programmable Power Converter	A programmable power converter having a programming module, the programming module being configurable exterior of the power converter. The power converter may be programmed using a removable memory device such as an EPROM. Alternatively, the power converter may be programmed by coupling a programming device thereto, such as at POS. The programming may also be provided via the internet or other communications link.
<b>ZL20040000 039.8 China</b>	02/06/08	Keyed Universal Power Tip and Power Source Connectors	Keyed power tips and tip interfaces that are backward compatible, ensuring that power tips are receivable only into power rated interfaces.

## Issued Foreign Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>10-0809542</b> <b>Korea</b>	02/26/08	Programmable Power Converter	A programmable power converter having a programming module, the programming module being configurable exterior of the power converter. The power converter may be programmed using a removable memory device such as an EPROM. Alternatively, the power converter may be programmed by coupling a programming device thereto, such as at POS. The programming may also be provided via the internet or other communications link.
<b>217940</b> <b>India</b>	03/31/08	Dual Input AC and DC Power Supply Having a Programmable DC Output Utilizing A Secondary Buck Converter	A dual input AC/DC power converter providing a primary selectable DC voltage output and a second DC output. The second DC output is adapted to power a portable device such as a mobile phone, PDA, and MP3 player.
<b>2323514</b> <b>Russia</b>	04/27/08	Programmable Power Converter	A programmable power converter having a programming module, the programming module being configurable exterior of the power converter. The power converter may be programmed using a removable memory device such as an EPROM. Alternatively, the power converter may be programmed by coupling a programming device thereto, such as at POS. The programming may also be provided via the internet or other communications link.

## Issued Foreign Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
<b>2,522,128</b> <b>Canada</b>	05/20/08	Dual Input AC/DC Power Converter Having a Programmable Peripheral Power Hub Module	A peripheral power hub (PPH) providing power to a plurality of outputs. The PPH provides multiple predetermined DC voltages, which may be converted by an associated voltage converter circuit to power an associated mobile device. Alternatively, the voltage converter circuits may be programmable and internal to the PPH.
<b>213495</b> <b>India</b>	07/01/08	Programmable Power Converter	A programmable power converter having a programming module, the programming module being configurable exterior of the power converter. The power converter may be programmed using a removable memory device such as an EPROM. Alternatively, the power converter may be programmed by coupling a programming device thereto, such as at POS. The programming may also be provided via the internet or other communications link.

# Pending Foreign Patents

Serial No.	Title
<b>Canada</b>	Keyed Universal Power Tip and Power Source Connectors
<b>China</b>	Dual Input AC and DC Power Supply Having a Programmable DC Output
<b>China</b>	Dual Input AC/DC Battery Operated Power Supply
<b>Germany</b>	Keyed Universal Power Tip and Power Source Connectors
<b>India</b>	Dual Input AC/DC Battery Operated Power Supply
<b>India</b>	Keyed Universal Power Tip and Power Source Connectors
<b>India</b>	Connector
<b>Israel</b>	Dual Input AC and DC Power Supply Having a Programmable DC Output
<b>Israel</b>	Keyed Universal Power Tip and Power Source Connectors
<b>Japan</b>	Dual Input AC and DC Power Supply Having a Programmable DC Output
<b>Japan</b>	Dual Input AC/DC Battery Operated Power Supply
<b>Japan</b>	Keyed Universal Power Tip and Power Source Connectors
<b>Norway</b>	Dual Input AC and DC Power Supply Having a Programmable DC Output
<b>PCT</b>	Dual Input AC and DC Power Supply Having a Programmable DC Output Utilizing Single-Loop Optical Feedback
<b>PCT</b>	Dual Input AC/DC to Programmable DC Output Converter
<b>PCT</b>	Dual Input AC/DC Power Converter Having a Programmable Peripheral Power Hub Module
<b>PCT</b>	Keyed Universal Power Tip and Power Source Connectors
<b>PCT</b>	Programmable Power Converter
<b>PCT</b>	Power Converter Having Housing with Improved Thermal Properties
<b>PCT</b>	Sepic Synchronous Rectification
<b>PCT</b>	Universal Power Converter Having Integral AC Converter

## Pending Foreign Patents (Cont'd)

Serial No.	Title
PCT	Integrated Power Converter and I/O Expansion
PCT	Power Supply with Electrostatic Cooling Fan
PCT	AC/DC Converter Having Single Detectable Input
PCT	Power Converter Having Multiple Layer Heat Sinks
PCT	Power Converter with Integral Battery
South Africa	Keyed Universal Power Tip and Power Source Connectors