



power patent brochure

Power Patent Portfolio

June 2, 2008

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 216 patents and patents pending to protect its innovative power technology, including 26 issued U.S. patents, 28 pending U.S. patents, 134 issued foreign patents, and 28 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, Indian, 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. 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
6,700,808	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.
6,751,109	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.
6,775,163	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.
6,791,853	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.
6,903,950	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
D506,981	07/05/05	Connector	5 watt receptacle.
D507,536	07/19/05	Connector	35 watt receptacle.
D507,537	07/19/05	Connector	35 watt tip.
6,920,056	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.
D508,022	08/02/05	Connector	15 watt tip.
D508,678	08/23/05	Connector	15 watt receptacle.
6,937,490	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.
D510,070	09/27/05	Connector	25 watt tip.
6,976,885	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
D517,012	03/14/06	Connector	25 watt receptacle.
7,027,300	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.
D530,281	10/17/06	Connector	5 watt connector.
7,139,181	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.
7,153,169	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.
7,352,158	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.
7,201,611	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

Pending United States Patents

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

Pending United States Patents (Cont'd)

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

Issued Foreign Patents

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

Issued Foreign Patents

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

Issued Foreign Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
D2004/1358/F	11/03/04	35 Watt Receptacle	iTip design patent – Singapore
000213889/ 0001-0002	11/03/04	5 Watt Connector/ Receptacle	iTip design patent – Europe
157405	01/31/05	15 Watt Connector – Dashed Lines	iTip design patent – Australia
157403	01/31/05	25 Watt Connector – Dashed Lines	iTip design patent – Australia
157402	01/31/05	35 Watt Connector – Dashed Lines	iTip design patent – Australia
157401	01/31/05	15 Watt Receptacle – Dashed Lines	iTip design patent – Australia
157400	01/31/05	25 Watt Receptacle – Dashed Lines	iTip design patent – Australia
157399	01/31/05	35 Watt Receptacle – Dashed Lines	iTip design patent – Australia
157406	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
157404	01/31/05	15 Watt Connector – Solid Lines	iTip design patent – Australia
0374277	02/02/05	5 Watt Connector Dashed Lines	iTip design patent – South Korea
157505	02/09/05	35 Watt Connector – Solid Lines	iTip design patent – Australia
157504	02/09/05	15 Watt Receptacle – Solid Lines	iTip design patent – Australia
157503	02/09/05	25 Watt Receptacle – Solid Lines	iTip design patent – Australia
157502	02/09/05	35 Watt Receptacle – Solid Lines	iTip design patent – Australia
157507	02/09/05	15 Watt Plug Only	iTip design patent – Australia
157506	02/09/05	25 Watt Plug Only	iTip design patent – Australia
157508	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
0377156	03/11/05	5 Watt Receptacle Dashed Lines	iTip design patent – South Korea
0374277	03/11/05	15 Watt Connector Dashed Lines	iTip design patent – South Korea
0377156	03/11/05	15 Watt Receptacle Dashed Lines	iTip design patent – South Korea
0374277	03/11/05	25 Watt Connector Dashed Lines	iTip design patent – South Korea
0377156	03/11/05	25 Watt Receptacle Dashed Lines	iTip design patent – South Korea
0374277	03/11/05	35 Watt Connector Dashed Lines	iTip design patent – South Korea
0377156	03/11/05	35 Watt Receptacle Dashed Lines	iTip design patent – South Korea
2,454,044 Canada	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
A2004/1000	05/11/05	5 Watt Receptacle – Dashed/Solid Lines	iTip design patent – South Africa
A2004/1001	05/11/05	5 Watt Connector – Dashed/Solid Lines	iTip design patent – South Africa
A2004/1002	05/11/05	15 Watt Receptacle – Dashed/Solid Lines	iTip design patent – South Africa
A2004/1003	05/11/05	15 Watt Connector – Dashed/Solid Lines	iTip design patent – South Africa
A2004/1004	05/11/05	25 Watt Receptacle – Dashed/Solid Lines	iTip design patent – South Africa
A2004/1005	05/11/05	25 Watt Connector – Dashed/Solid Lines	iTip design patent – South Africa
A2004/1006	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
A2004/1007	05/11/05	35 Watt Connector – Dashed/Solid Lines	iTip design patent – South Africa
ZL200430078054.7	06/15/05	25 Watt Connector / Receptacle – Solid Lines	iTip design patent – China
2004/0930 South Africa	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.
102847 Singapore	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.
ZL200430078053.2	09/07/05	15 Watt Connector / Receptacle – Solid Lines	iTip design patent – China
2002342210 Australia	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
1440502 Europe	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.
1440502 Finland	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.
1440502 France	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.
1440502 Germany	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.
1440502 Greece	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.
1440502 Ireland	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
1440502 Italy	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.
1440502 Netherlands	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.
1440502 Spain	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.
1440502 Sweden	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.
1440502 Switzerland	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.
1440502 Turkey	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
1440502 United Kingdom	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.
78963	10/17/05	5-35 Watt Connector / Receptacle	iTip design patent – Norway
107880	12/13/05	5 Watt Connector Dashed/Solid Lines	iTip design patent – Canada
107881	12/13/05	5 Watt Receptacle Dashed/Solid Lines	iTip design patent – Canada
107882	12/13/05	15 Watt Connector Dashed/Solid Lines	iTip design patent – Canada
107883	12/13/05	15 Watt Receptacle Dashed/Solid Lines	iTip design patent – Canada
107884	12/13/05	25 Watt Connector Dashed/Solid Lines	iTip design patent – Canada
107885	12/13/05	25 Watt Receptacle Dashed/Solid Lines	iTip design patent – Canada
107886	12/13/05	35 Watt Connector Dashed/Solid Lines	iTip design patent – Canada
107887	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
1,263,015	01/6/06	5 Watt Connector Dashed / Solid Lines	iTip design patent – Japan
1,263,016	01/6/06	5 Watt Receptacle Dashed/Solid Lines	iTip design patent – Japan
1440503 Europe	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.
1440503 Great Britain	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.
1440503 France	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
1440503 Germany	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.
1440503 Netherlands	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.
1440503 Italy	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.
1440503 Spain	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.
1,271,544	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
1,271,011	03/31/06	25 Watt Receptacle Dashed/Solid Lines	iTip design patent – Japan
1,271,545	03/31/06	35 Watt Connector Dashed/Solid Lines	iTip design patent – Japan
1,271,543	03/31/06	15 Watt Connector Dashed/Solid Lines	iTip design patent – Japan
1,271,012	03/31/06	25 Watt Receptacle Dashed/Solid Lines	iTip design patent – Japan
1,271,546	03/31/06	35 Watt Receptacle Dashed/Solid Lines	iTip design patent – Japan
2274939 Russia	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.
59313	06/16/06	5-35 Watt Connectors – Solid Lines	iTip design patent – Russia
59315	06/16/06	5-35 Watt Receptacles – Solid Lines	iTip design patent – Russia
10-0623822 Korea	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
2283521 Russia	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.
2004 3437 Norway	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.
39540	09/27/06	5-35 Watt Connector/ Receptacle Dashed/Solid Lines	iTip design patent – Israel
41587	9/27/06	25 Watt Connector	iTip design patent – Israel
41584	9/27/06	5 Watt Receptacle	iTip design patent – Israel
41586	9/27/06	15 Watt Receptacle	iTip design patent – Israel
41585	9/27/06	15 Watt Connector	iTip design patent – Israel
41588	09/27/06	25 Watt connector	iTip design patent – Israel
41590	09/27/06	35 Watt Connector	iTip design patent – Israel
41589	09/27/06	35 Watt Connector	iTip design patent – Israel

Issued Foreign Patents (Cont'd)

Patent No.	Issue Date	Title	Summary of Patented Technology
10-0636611 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.
10-0647383	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.
114339	12/11/06	5 Watt Connector Dashed / Solid Lines	iTip design patent – Taiwan
114340	12/11/06	5 Watt Receptacle Dashed / Solid Lines	iTip design patent – Taiwan
114341	12/11/06	15 Watt Connector Dashed/Solid Lines	iTip design patent – Taiwan
114342	12/11/06	15 Watt Receptacle Dashed/Solid Lines	iTip design patent – Taiwan
114343	12/11/06	25 Watt Connector Dashed/Solid Lines	iTip design patent – Taiwan
114344	12/11/06	25 Watt Receptacle Dashed/Solid Lines	iTip design patent – Taiwan
114345	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
114346	12/11/06	35 Watt Receptacle Dashed/Solid Lines	iTip design patent – Taiwan
2002242115 Australia	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.
ZL20043007 8055.1	03/07/07	35 Watt Connector / Receptacle – Solid Lines	iTip design patent – China
1627452 Europe	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.
2,466,162 Canada	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
2,533,086 Canada	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.
122062 Singapore	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.
2004302167 Australia	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.
2308143 Russia	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
2004208705 Australia	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.
ZL20043007 8056.6	12/19/07	5 Watt Connector / Receptacle Solid Lines	iTip design patent – China
200600346-1 Singapore	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.
ZL20040000 039.8 China	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
10-0809542 Korea	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.
2323514 Russia	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.

Pending Foreign Patents

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

Pending Foreign Patents (Cont'd)

Serial No.	Title
PCT	Universal Power Converter Having Integral AC Converter
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