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PROVISIONAL APPLICATION FOR PATENT COVER SHEET This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).



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	ENCI	OSED APPLICAT	FION PARTS	(check all that apply	1)		
Specification Number of F	Pages	19		CD(s), Number			
✓ Drawing(s) Number of Sheets 4 ✓ Other (specify) Power of Attorney						Attorney]
Application Data Sheet. Se	e 37 CFR	1.76					
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Respectfully submitted,	Ň	1/1/14			10.01		ابو سببونی
	1	Yout		Date 22	10 / 01		
SIGNATURE					RATION NO.	44435	
TYPED or PRINTED NAME Krishna K. Pathiyal, Esq.				(if appropriate) Docket Number:		850-001	
TELEPHONE (519) 888-7465						TR PATEN'	Τ

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Type a plus sign (+) 850-001 + Docket Number inside this box -INVENTOR(S)/APPLICANT(S) Residence (City and either State or Foreign Country) Given Name (first and middle [if any]) Family or Sumame Kitchener, CANADA Luong Quang A. Kitchener, CANADA Malton Jonathan T.

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VIA COURIER

October 22, 2001

BOX PROVISIONAL APPLICATION Assistant Commissioner for Patents Washington, D.C. 20231

USA

Dear Sir:

Re:	NEW PROVISIONAL PATENT APPLICATION				
	Inventor(s):	Daniel M. Fischer; Dan G. Radut; Michael F. Habicher; Quang A. Luong;			
		Jonathan Malton			
	Title:	MULTIFUNCTIONAL CHARGER SYSTEM AND METHOD			
	Our Ref:	850-001			

Enclosed in connection with this new provisional patent application are the following:

			Numbe	r of Pages
(1)	Provisional Application for Patent Cover Sheet			2
	(including fee payment and method)			1
(2)	Fee Transmittal Sheet			1
(3)	Specification			19
• • •	Drawing(s)	No. of Figures:	4	4
~ /	Power of Attorney			5
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Payment of Fees:

In sum, please charge the following fees to our **deposit account** as indicated on the Cover Sheet:

Filing fee of \$160.00

Yours very truly, Krishna K. Pathiyal Patent Agent Encl.

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Multifunctional Charger System and Method

CROSS-REFERENCE TO RELATED APPLICATION

This application is related to the following prior application: System and

5 Method for Adapting a USB to Provide Power for Charging a Mobile Device, United States Provisional Application No. 60/273021, filed March 1st, 2001. This prior application, including the entire written description and drawing figures, is hereby incorporated into the present application by reference.

BACKGROUND

1. FIELD OF THE INVENTION

This invention relates generally to power adapters and battery chargers. More particularly, the invention provides a USB (Universal Serial Bus) power adapter and battery charger for charging a first battery at a mobile device and a second battery at the charger simultaneously or independently. The invention is particularly well suited for use in Personal Digital Assistants, mobile communication devices, cellular phones, and wireless two-way e-mail communication devices, which may have a USB interface (collectively referred to herein as "mobile devices"). The invention provides utility, however, in any device that may need to draw power via the USB interface and/or has a rechargeable battery.

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DESCRIPTION OF THE RELATED ART 2.

Supplying power to a mobile device involves the participation of a mobile device on one hand, as well as the participation of a power source on the other.

On one hand, most mobile devices provide a first power interface for 5 receiving power from a power source, for instance to recharge a battery, and a second data interface for communicating that is separate from the power interface. Although it is desirable to have a combined power and data interface, most combined interfaces are non-standard so that one mobile device provided by one manufacturer with one combined interface cannot cooperate with the combined 10 interfaces of other manufacturers.

Furthermore, many mobile devices now have USB (Universal Serial Bus) interfaces for communicating, although they still maintain a separate power interface, such as a barrel connector, for receiving power.

However, a USB chargeable mobile device provided according to System 15 and Method for Adapting a USB to Provide Power for Charging a Mobile Device, United States Provisional Application No. 60/273021, filed March 1st, 2001, has a single USB interface for both communicating and recharging a battery. Given that USB connectors are popular widely supported in industry, a USB chargeable device solves the problem of the combined interface at a USB chargeable mobile 20 device.

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