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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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INVENTOR(S)									
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Additional inventors are being named on the 1_ separately numbered sheets attached hereto									
TITLE OF THE INVENTION (280 characters max)									
MULTIFUNCTIONAL CHARGER SYSTEM AND METHOD									
Direct all correspondence to: CORRESPONDENCE ADDRESS									
Customer Number					ce Customer Number Code Label here				
OR	Type Customer Number here								
Firm <i>or</i> Individual Name	Krishna K. Pathiyal, Esq.								
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	ENCL	OSED APPLICAT	ION PARTS	(check all that ap	ply)				
Specification Number of Pages 19 CD(s), Number									
✓ Drawing(s) Number of Sheets 4			[-	Other (specif	y) Po	wer of At	torney		
Application Data Sheet. See 37 CFR 1.76									
METHOD OF PAYMENT OF FIL	ING FEE	S FOR THIS PROV	VISIONAL AF	PLICATION FOR	PATENT				
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A check or money order is enclosed to cover the filling fees									
The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number: 50-1995									
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United States Government. No.									
Yes, the name of the U.S. Government agency and the Government contract number are:									
Respectfully submitted,	K	· Vavy		Date 2	22 / 10 / 0)1			
SIGNATURE SIGNATURE				REGISTRATION NO. 44435			44435		
TYPED or PRINTED NAME Krishna K. Pathiyal, Esq.				(if appropriate) Docket Number: 850-001					
TELEPHONE (519) 888-7465 (Ext 2535)									

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

This collection of information is required by 37 CFR 1.51. The information is used by the public to file (and by the PTO to process) a provisional application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the complete provisional application to the PTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Box Provisional Application, Assistant Commissioner for Patents, Washington, D.C. 20231.



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	Doc	ket Number 850-001	inside this box → '_		
	INVENTOR(S)/APPLICANT(S)			
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Number 1 of 1

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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:

		Number	r of Pages
(1) Provisional Application for Patent Cover Sheet			2
(including fee payment and method) (2) Fee Transmittal Sheet (3) Specification	No. of Figures:	4	1 19 4 5

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 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.

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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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2. DESCRIPTION OF THE RELATED ART

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 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 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 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 device.



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