

u.s.<sup>-</sup> 3048( PROVISIONAL APPLICATION FOR PATENT COVER SHEET This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

Express Mail Lab	el No.						0
INVENTOR(S)							1
Given Name (first and middle [if any]) Family Name c		mily Name or	Surname	Surname (City and		nce r Foreign Country)	
Daniel M. Fischer		her		Waterloo, CANADA			
Dan G.	Radi	ut		Waterloo, CAN	ADA		
Michael F.	Habi	icher		Cambridge, CANADA			
Additional inventors are be	ing named on th	e <u>1</u> separat	tely number	ed sheets attached h	ereto		
	TITLE	OF THE INVE	ENTION (280	) characters max)			
MULTIFUNCTIONAL CHAI	RGER SYSTI	EM AND M	ETHOD				
Direct all correspondence to:		CORRESPO	NDENCE A	DRESS			
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Firm or Individual Name	Krishna K. Pathiyal, Esq.						
Address	Research In Motion Limited						
Address	295 Phillip Street						
City	City Waterloo Si		State	Ontario		_ <u>3W8</u>	
Country	ntry CANADA Telephone (519)888-7465 Fax (519)888-1975						
		APPLICATI	ON PARTS	check all that appl	/)		
Specification Number of F	Pages 1	Э	L	CD(s), Number			
Drawing(s) Number of Sheets							
Application Data Sheet. Se							J
METHOD OF PAYMENT OF FIL	ING FEES FOR	THIS PROVI	SIONAL AP	PLICATION FOR PA	TENT		
Applicant claims small entity status. See 37 CFR 1.27.					FILING FEE AMOUNT (\$)		
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The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number: 50-1995 160.00							
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Yes, the name of the U.S. Gove	rnment agency and	d The Governme	ent contract nu	mber are:			
Respectfully submitted,	K.	TAVY		Date 22	10/01		
SIGNATURE	7	1th	_	L	RATION NO.	44435	<u></u>
TYPED or PRINTED NAME Krishna K. Pathiyal, Esq.			(if appropriate)		850-001		
TELEPHONE (519) 888-7465 (Ext 2535)			1000-001				
USE ONLY FOR		A PRO	VISION	AL APPLIC	ATION	FOR PATE	ENT

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 1.4. 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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### PROVISIONAL APPLICATION COVER SHEET Additional Page

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		Docket Num	nber	850-001	inside this box $\rightarrow$	+	
	INVENT	OR(S)/APPLI	CANT	-(S)			
Given Name (first and middle [if any])	Family or Sumame		Residence (City and either State or Foreign Country)				
Quang A.	Luong			hener, CANADA			
Jonathan T.	Malton		Kitch	nener, CANADA			
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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)			
(2) Fee Transmittal Sheet			1
(3) Specification			19
(4) Drawing(s)	No. of Figures:	4	4
	0		5
(5) Power of Attorney			1
(6) Receipt Card			1

#### 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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Research In Motion Limited 295 Phillip Street, Waterloo, Ontario N2L 3W8 Canada tel +1 (519) 888-7465 fax +1 (519) 888-6990 web www.rim.net

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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 1<sup>st</sup>, 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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### 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.

5 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 10 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 1<sup>st</sup>, 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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