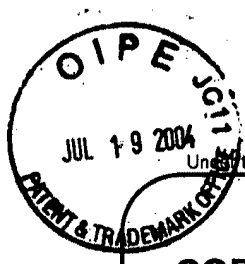


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Application Number	60/568,119
Filing Date	May 4, 2004
First Named Inventor	Michael K. Brown
Art Unit	Not yet assigned
Examiner Name	Not yet assigned
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Typed or Printed Name	Robert H. Kelly
Signature	
Date	<u>14 July 04</u>
Telephone	214-706-4200

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

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050404

22713 U.S. PTO

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Express Mail Label No. EV 387 990 539 US

22264 U.S. PTO  
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050404

INVENTOR(S)				
Given Name (first and middle [if any])	Family Name or Surname	Residence (City and either State or Foreign Country)		
Michael K.	Brown	Kitchener, Ontario, Canada		
Additional inventors are being named on the <u>1</u> separately numbered sheets attached hereto				
TITLE OF THE INVENTION (500 characters max)				
Challenge Response System and Method				
Direct all correspondence to: <b>CORRESPONDENCE ADDRESS</b>				
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ENCLOSED APPLICATION PARTS (check all that apply)				
<input checked="" type="checkbox"/>	Specification Number of Pages	<u>20</u>	<input type="checkbox"/>	CD(s), Number
<input checked="" type="checkbox"/>	Drawing(s) Number of Sheets	<u>5</u>	<input type="checkbox"/>	Other (specify) Transmittal Letter & Express Mailing Certif.; return postcard
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METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT				
<input type="checkbox"/>	Applicant claims small entity status. See 37 CFR 1.27.			FILING FEE Amount (\$)  160.00
<input type="checkbox"/>	A check or money order is enclosed to cover the filing fees.			
<input checked="" type="checkbox"/>	The Director is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number: <u>50-2032</u>			
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The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.				
<input checked="" type="checkbox"/>	No.			
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[Page 1 ]

Respectfully submitted,

SIGNATURE

*Robert H. Kelly*

TYPED or PRINTED NAME Robert H. Kelly

TELEPHONE 214-706-4201

Date

4 May 04

REGISTRATION NO. 33,922

(if appropriate)

Docket Number: 1578.168 (RIM 978)

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Docket Number **1578.168 (RIM 978)**

INVENTOR(S)/APPLICANT(S)		
Given Name (first and middle [if any])	Family or Surname	Residence (City and either State or Foreign Country)
Michael S.	Brown	Waterloo, Ontario, Canada
Michael G.	Kirkup	Waterloo, Ontario, Canada
Herb	Little	Waterloo, Ontario, Canada

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SCHEEF & STONE, L.L.P.

Legal counsel based on solid principles.

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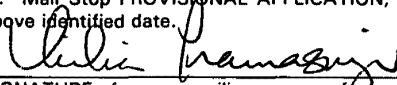
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DOCKET NUMBER: 1578.168 (RIM 978)

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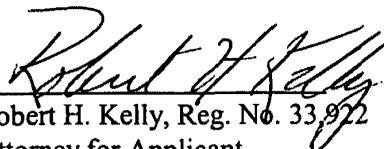
Sir:

In re: US Provisional Application s/n: New Application  
Inventor(s): Michael K. Brown (Kitchener, Ontario, Canada); Michael S. Brown  
(Waterloo, Ontario, Canada); Michael G. Kirkup (Waterloo, Ontario,  
Canada); Herb Little (Waterloo, Ontario, Canada)  
Title: **Challenge Response System and Method**

Enclosed are:

- Provisional Application for Patent Cover Sheet (in duplicate);
- Patent specification (20 pages);
- Five (5) sheets of Drawings
- Return post card.

Respectfully submitted,

  
Robert H. Kelly, Reg. No. 33,922  
Attorney for Applicant

## CHALLENGE RESPONSE SYSTEM AND METHOD

### BACKGROUND

#### Technical Field

The present invention relates generally to the field of communications, and in particular to a challenge response system and method.

#### Description of the Related Art

Mobile devices, such as personal digital assistants (PDAs), cellular phones, wireless communication devices and the like, are occasionally connected to a user's desktop system in order to synchronize information between the user's desktop system and their mobile device. Information such as a user's calendar, task list and phone book entries are examples of information that is routinely synchronized between the desktop system and the mobile device.

Such information is usually of a sensitive nature and should be secured. The user is thus provided with an option to specify a device password on the mobile device in order to secure the mobile device and prevent use of the device without knowledge of the device password.

When the mobile device is connected to the desktop system in order to synchronize information, the mobile device issues a challenge to the desktop system in order to determine if the desktop system is authorized to initiate a connection with the mobile device. The desktop system then provides a response to the mobile device. If the response provided by the desktop system matches the response expected by the mobile device, then the desktop system is allowed to connect to the mobile device and proceed to synchronize information.

Typically, the issued challenge is a request for the hash of the user password. A hash function, such as SHA-1, is a one-way function that takes an input or varying length and converts

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