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U.S. PTO

PTO/SB/16 (07-07)

Approved for use through 06/30/2010. OMB 0651-0032

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PROVISIONAL APPLICATION FOR PATENT COVER SHEET – Page 1 of 2

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

**U.S. PTO
60/995200
09/24/2007**

Express Mail Label No. EB739432006US

INVENTOR(S)		
Given Name (first and middle [if any])	Family Name or Surname	Residence (City and either State or Foreign Country)
Emery A.	Sanford	San Francisco, California
Stephen	Zadesky	Portola Valley, California
Additional inventors are being named on the _____ separately numbered sheets attached hereto		
TITLE OF THE INVENTION (500 characters max):		
EMBEDDED FINGERPRINT SCANNER		
Direct all correspondence to: CORRESPONDENCE ADDRESS		
<input checked="" type="checkbox"/> The address corresponding to Customer Number:		63976
OR		
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ENCLOSED APPLICATION PARTS (check all that apply)		
<input checked="" type="checkbox"/> Application Data Sheet. See 37 CFR 1.76		<input type="checkbox"/> CD(s), Number of CDs _____
<input checked="" type="checkbox"/> Drawing(s) Number of Sheets <u>1</u>		<input checked="" type="checkbox"/> Other (specify) <u>Certificate of Express Mailing and Return Postcard</u>
<input checked="" type="checkbox"/> Specification (e.g. description of the invention) Number of Pages <u>4</u>		
Fees Due: Filing Fee of \$200 (\$100 for small entity). If the specification and drawings exceed 100 sheets of paper, an application size fee is also due, which is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).		
METHOD OF PAYMENT OF THE FILING FEE AND APPLICATION SIZE FEE FOR THIS PROVISIONAL APPLICATION FOR PATENT		
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.		\$200.00
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<input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached		TOTAL FEE AMOUNT (\$)
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USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

This collection of information is required by 37 CFR 1.51. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. 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, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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IPR2019-00611**



PROVISIONAL APPLICATION COVER SHEET
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SIGNATURE

Paul E. Leblond

Date September 24, 2007

TYPED or PRINTED NAME Paul E. Leblond

REGISTRATION NO. 58,397
(if appropriate)

TELEPHONE: (212) 596-9000

Docket Number: 104677-0199-001 (P5846USP1)

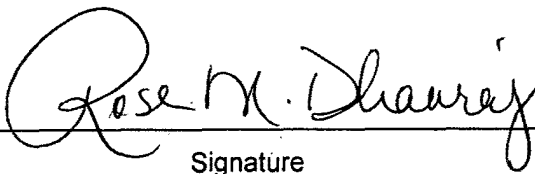
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EMBEDDED FINGERPRINT SCANNER

Background of the Invention

[0001] This invention is directed to a fingerprint scanner embedded in a portion of an electronic device.

5 Brief Description of the Drawings

[0002] The above and other objects and advantages of the invention will be apparent upon consideration of the following detailed description, taken in conjunction with the accompanying drawings, in which
10 like reference characters refer to like parts throughout, and in which:

[0003] FIG. 1 is a schematic view of an electronic device with an embedded fingerprint scanner in accordance with one embodiment of the invention; and

15 [0004] FIG. 2 is a schematic view of another electronic device with an embedded fingerprint scanner in accordance with one embodiment of the invention.

Detailed Description

[0005] To prevent unauthorized access to an
20 electronic device, the electronic device may include one or more authentication measures that must be

satisfied prior to providing access to the electronic device. For example, the electronic device may require a user to enter a password to access the electronic device features. As another example, the electronic device may be coupled to a separate authentication system, which may enable the electronic device when correct authentication information is provided. Such an implementation may include, for example, an electronic device coupled to a separate fingerprint scanner, retina scanner, or other authentication system.

[0006] In some embodiments, an authentication system, such as a fingerprint scanner, retina scanner, or other biometric authentication system, may be incorporated in the electronic device. Although the following discussion will describe the authentication system in the context of a fingerprint scanner, it will be understood that any suitable authentication system may be used. FIG. 1 is a schematic view of an electronic device with an embedded fingerprint scanner in accordance with one embodiment of the invention. Electronic device 100 may be any suitable electronic device, including for example an iPod or iPhone from Apple, Inc. of Cupertino, California. Electronic device 100 may include screen 102 operative to display content (e.g., media) to a user. In some embodiments, screen 102 may be operative to receive inputs from the user (e.g., a touch screen).

[0007] To limit access to electronic device functions, electronic device 100 may include fingerprint scanner 110 embedded in, below, or on the surface of screen 102. As the user moves a finger on screen 102 (e.g., slides a finger along screen 102 to

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