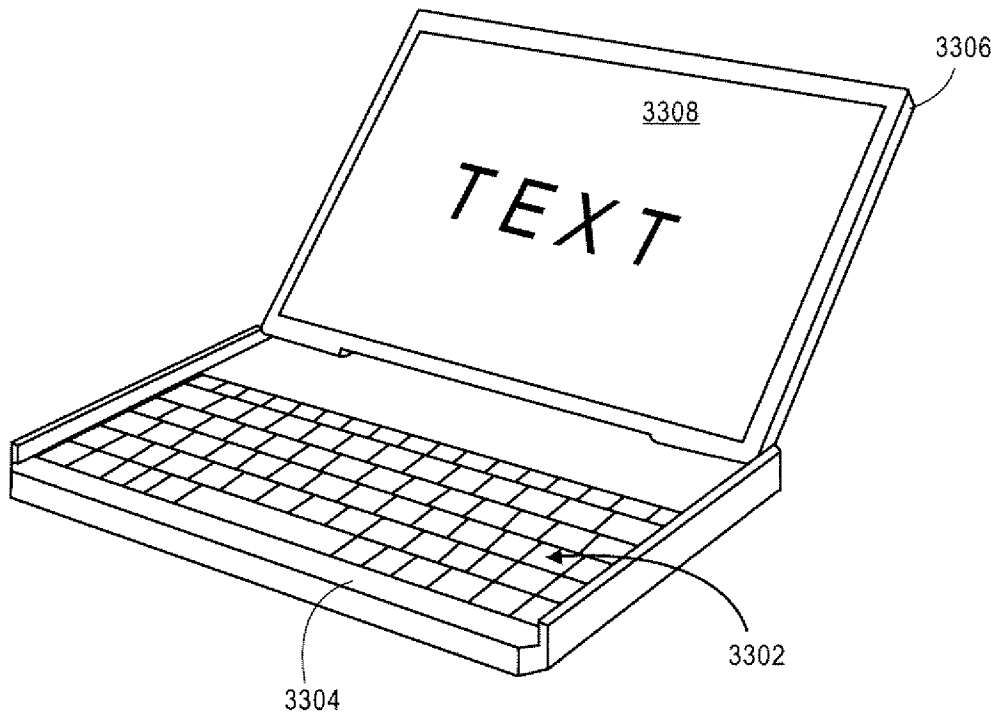
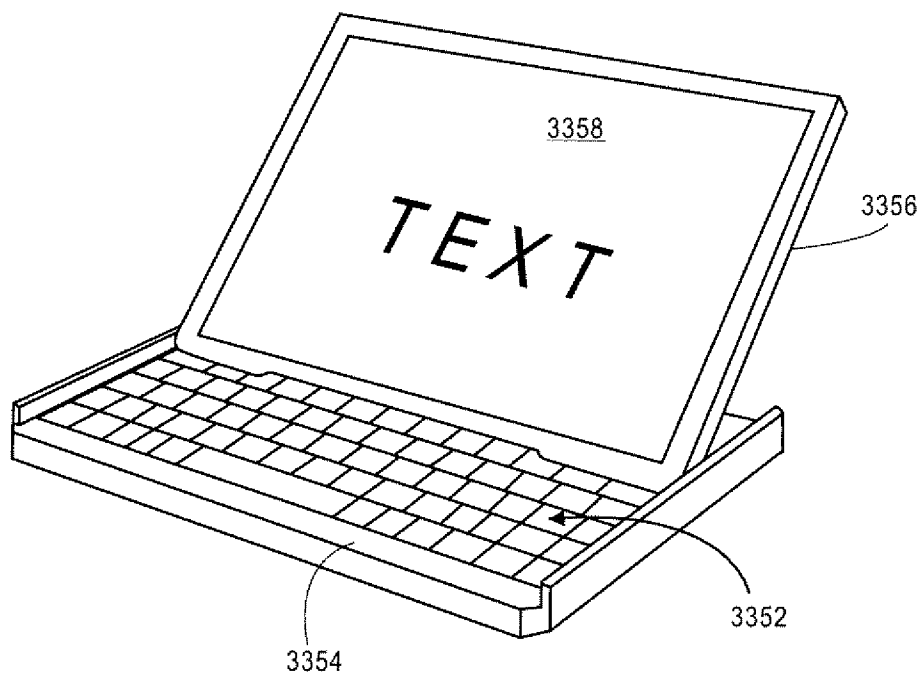


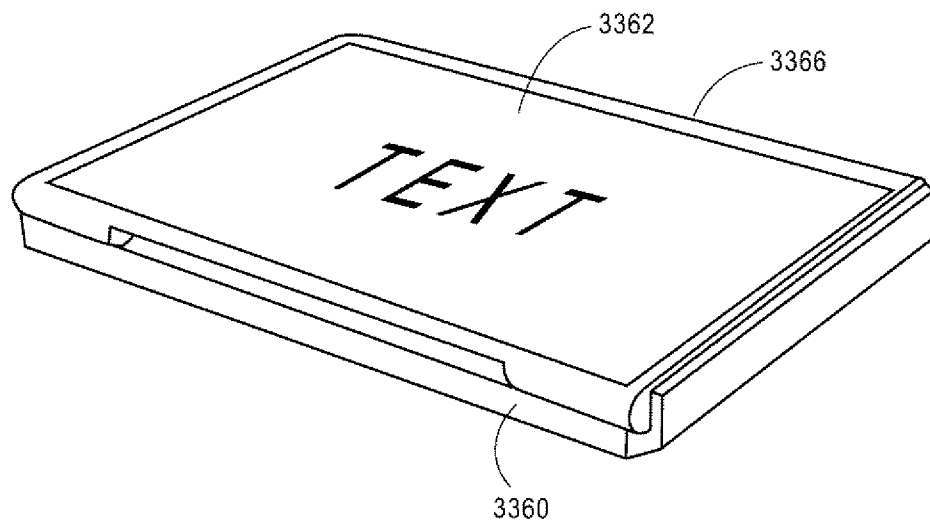
## EXHIBIT 5.02



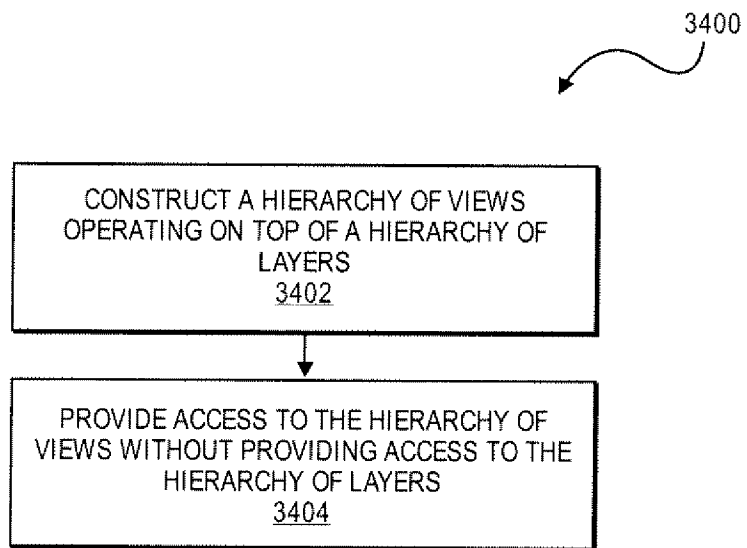
**FIG. 33A**



**FIG. 33B**



**FIG. 33C**



**FIG. 34**

**UTILITY PATENT APPLICATION TRANSMITTAL**

(Only for new non-provisional applications under 37 CFR 1.53(b))

Attorney Docket No. 4860P4895  
(maximum 12 characters)

First Named Inventor Andrew Platzer

Title: APPLICATION PROGRAMMING INTERFACES FOR SCROLLING OPERATIONS

Express Mail Label No. \_\_\_\_\_

ADDRESS TO: Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1. \_\_\_\_\_ **Fee Transmittal Form (e.g., PTO/SB/17)**  
(Submit an original and a duplicate for fee processing)
2. \_\_\_\_\_ **Applicant Claims Small Entity Status. (37 CFR 1.27)**
3. X **Specification (Total Pages 52)**  
(preferred arrangement set forth below)
  - Descriptive Title of the Invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference sequence listing, a table,  
or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. X **Drawings(s) (35 USC 113) (Total Sheets 37)**
5. X **Oath or Declaration (Total Pages 3)**
  - a. \_\_\_\_\_ Newly Executed (Original or Copy)
  - b. \_\_\_\_\_ Copy from a Prior Application (37 CFR 1.63(d))  
(for Continuation/Divisional with Box 18 completed)
    - i. \_\_\_\_\_ **DELETIONS OF INVENTOR(S)** Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
  - c. X Unsigned.
6. \_\_\_\_\_ **Application Data Sheet. (37 CFR 1.76)**
7. \_\_\_\_\_ **CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)**
8. \_\_\_\_\_ **Nucleotide and/or Amino Acid Sequence Submission**  
(if applicable, all necessary)
  - a. \_\_\_\_\_ Computer Readable Form (CRF)
  - b. \_\_\_\_\_ Specification Sequence Listing on:
    - i. \_\_\_\_\_ CD-ROM or CD-R (2 copies); or
    - ii. \_\_\_\_\_ paper
  - c. \_\_\_\_\_ Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

- 9.  Assignment Papers (cover sheet & documents(s))
- 10.  a. Separate 37 CFR 3.73(b) Statement (where there is an assignee)
- b. Power of Attorney
- 11.  English Translation Document (if applicable)
- 12.  a. Information Disclosure Statement (IDS)/PTO-1449 (or PTO/SB/08)
- b. Copies of IDS Citations
- 13.  Preliminary Amendment
- 14.  Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
- 15.  Certified Copy of Priority Document(s) (if foreign priority is claimed)
- 16.  Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
- 17A.  Claim for Foreign Priority
- 17B.  Other: Appendix A (4 pages)

17C.  Pursuant to 37 C.F.R. 1.136(a)(3), applicant(s) hereby request and authorize the U.S. Patent and Trademark Office to (1) treat any concurrent or future reply that requires a petition for extension of time as incorporating a petition for extension of time for the appropriate length of time and (2) charge all required fees, including extension of time fees and fees under 37 C.F.R. 1.16 and 1.17, to Deposit Account No. 02-2666.

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title (e.g., by way of preliminary amendment), or in an Application Data Sheet Under 37 C.F.R. 1.76:

Continuation  Divisional  Continuation-in-part (CIP)  
 Of Prior Application No.: \_\_\_\_\_ Examiner \_\_\_\_\_ Group Art Unit \_\_\_\_\_  
 (which is a  continuation/  divisional/  CIP of prior application no. \_\_\_\_\_,  
 which is a  continuation/  divisional/  CIP of prior application no. \_\_\_\_\_) (List entire chain of priority)

Applicant(s): Also include a Preliminary Amendment to amend the specification to claim priority.  
 For CONTINUATION AND DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. Correspondence Address  
 Customer Number or Bar Code Label 08791  
 or (Insert Customer No. or Attach Bar Code Label here)  
 Correspondence Address Below  
 NAME Jeremy Schweigert  
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP  
 ADDRESS 12400 Wilshire Boulevard  
Seventh Floor  
 CITY Los Angeles STATE California ZIP CODE 90025  
 Country U.S.A. TELEPHONE (408) 720-8300 FAX (408) 720-8383

Name (PRINT/TYPE): Jeremy Schweigert Registration No: 56,244  
 Signature: /Jeremy Schweigert/ Date: January 7, 2007

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD					Application or Docket Number				
Substitute for Form PTO-875					11/620,717				
<b>APPLICATION AS FILED – PART I</b>					<b>SMALL ENTITY</b>		OR	<b>OTHER THAN SMALL ENTITY</b>	
(Column 1)		(Column 2)			RATE (\$)		FEE (\$)		
FOR	NUMBER FILED	NUMBER EXTRA			RATE (\$)	FEE (\$)			
BASIC FEE (37 CFR 1.16(a), (b), or (c))						<b>300</b>			
SEARCH FEE (37 CFR 1.16(k), (l), or (m))						<b>500</b>			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))						<b>200</b>			
TOTAL CLAIMS (37 CFR 1.16(i))	<b>88</b>	minus 20	=	<b>68</b>	X\$ 25	OR X\$50		<b>3400</b>	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	<b>25</b>	minus 3	=	<b>22</b>	X\$100	OR X\$200		<b>4400</b>	
APPLICATION SIZE FEE (37 CFR 1.16(s))									
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					180	OR 360			
					<b>TOTAL</b>	<b>0</b>		<b>8800</b>	
* If the difference in column 1 is less than zero, enter "0" in column 2.									
<b>APPLICATION AS AMENDED – PART II</b>					<b>SMALL ENTITY</b>		OR	<b>OTHER THAN SMALL ENTITY</b>	
(Column 1)		(Column 2)		(Column 3)		RATE (\$)		ADDITIONAL FEE (\$)	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE (\$)	ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	*	Minus **	=		X =	OR X =		
	Independent (37 CFR 1.16(h))	*	Minus ***	=		X =	OR X =		
	Application Size Fee (37 CFR 1.16(s))					180	OR 360		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					<b>TOTAL</b>	<b>ADD'T FEE</b>		
(Column 1)		(Column 2)		(Column 3)		RATE (\$)		ADDITIONAL FEE (\$)	
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE (\$)	ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	*	Minus **	=		X =	OR X =		
	Independent (37 CFR 1.16(h))	*	Minus ***	=		X =	OR X =		
	Application Size Fee (37 CFR 1.16(s))					N/A	OR N/A		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					<b>TOTAL</b>	<b>ADD'T FEE</b>		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.									
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".									
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".									
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

This collection of information is required by 37 CFR 1.16. 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 1.14. This collection is estimated to take 12 minutes 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.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.





UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

Table with 8 columns: APPLICATION NUMBER, FILING or 371(c) DATE, GRP ART UNIT, FIL FEE REC'D, ATTY.DOCKET.NO, DRAWINGS, TOT CLAIMS, IND CLAIMS. Row 1: 11/620,717, 01/07/2007, 2193, 8800, 4860P4895, 37, 88, 25

CONFIRMATION NO. 9801

FILING RECEIPT

8791
BLAKELY SOKOLOFF TAYLOR & ZAFMAN
12400 WILSHIRE BOULEVARD
SEVENTH FLOOR
LOS ANGELES, CA90025-1030

Date Mailed: 02/06/2007

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Andrew Platzer, Santa Clara, CA;
Scott Herz, Santa Clara, CA;

Power of Attorney: None

Domestic Priority data as claimed by applicant

Foreign Applications

If Required, Foreign Filing License Granted: 02/05/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US11/620,717

Projected Publication Date: Request for Non-Publication Acknowledged

Non-Publication Request: Yes

Early Publication Request: No

Title

Application Programming Interfaces for Scrolling Operations

Preliminary Class

717

## PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

---

### LICENSE FOR FOREIGN FILING UNDER

#### Title 35, United States Code, Section 184

#### Title 37, Code of Federal Regulations, 5.11 & 5.15

#### **GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of

Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

Table with 8 columns: APPLICATION NUMBER, FILING or 371(c) DATE, GRP ART UNIT, FIL FEE REC'D, ATTY.DOCKET.NO, DRAWINGS, TOT CLAIMS, IND CLAIMS. Row 1: 11/620,717, 01/07/2007, 2193, 8800, 4860P4895, 37, 88, 25

CONFIRMATION NO. 9801

FILING RECEIPT

8791
BLAKELY SOKOLOFF TAYLOR & ZAFMAN
12400 WILSHIRE BOULEVARD
SEVENTH FLOOR
LOS ANGELES, CA90025-1030

Date Mailed: 02/07/2007

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Andrew Platzer, Santa Clara, CA;
Scott Herz, Santa Clara, CA;

Power of Attorney: None

Domestic Priority data as claimed by applicant

Foreign Applications

If Required, Foreign Filing License Granted: 02/05/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US11/620,717

Projected Publication Date: Request for Non-Publication Acknowledged

Non-Publication Request: Yes

Early Publication Request: No

Title

Application Programming Interfaces for Scrolling Operations

Preliminary Class

717

## PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

---

### LICENSE FOR FOREIGN FILING UNDER

#### Title 35, United States Code, Section 184

#### Title 37, Code of Federal Regulations, 5.11 & 5.15

#### GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of

Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).


**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov

APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
11/620,717	01/07/2007	Andrew Platzer	4860P4895

8791  
 BLAKELY SOKOLOFF TAYLOR & ZAFMAN  
 12400 WILSHIRE BOULEVARD  
 SEVENTH FLOOR  
 LOS ANGELES, CA 90025-1030

**CONFIRMATION NO. 9801**  
**FORMALITIES**  
**LETTER**

Date Mailed: 02/07/2007

**NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION**

**FILED UNDER 37 CFR 1.53(b)**

*Filing Date Granted*

**Items Required To Avoid Abandonment:**

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is unsigned.

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.16(f) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

**SUMMARY OF FEES DUE:**

Total additional fee(s) required for this application is **\$130** for a non-small entity

- **\$130** Surcharge.

Replies should be mailed to: Mail Stop Missing Parts  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.  
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at <http://www.uspto.gov/ebc>.

---

*If you are not using EFS-Web to submit your reply, you must include a copy of this notice.*



Office of Initial Patent Examination (571) 272-4000, or 1-800-PTO-9199, or 1-800-972-6382

PART 3 - OFFICE COPY



*ZPC*



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
11/620,717	01/07/2007	Andrew Platzer	4860P4895

**CONFIRMATION NO. 9801**  
**FORMALITIES LETTER**

8791  
BLAKELY SOKOLOFF TAYLOR & ZAFMAN  
12400 WILSHIRE BOULEVARD  
SEVENTH FLOOR  
LOS ANGELES, CA 90025-1030

Date Mailed: 02/07/2007

**NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION**

**FILED UNDER 37 CFR 1.53(b)**

*Filing Date Granted*

**Items Required To Avoid Abandonment:**

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is unsigned.

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.16(f) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

**SUMMARY OF FEES DUE:**

Total additional fee(s) required for this application is **\$130** for a non-small entity

- **\$130** Surcharge.

04/06/2007  
 04/06/2007 MGE BREM1 00000041 11620717 130.00 OP  
 01 FC:1051 130.00 OP

Replies should be mailed to: Mail Stop Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.  
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at <http://www.uspto.gov/ebc>.

---

*If you are not using EFS-Web to submit your reply, you must include a copy of this notice.*

A handwritten signature in black ink, appearing to be a stylized 'JW' or similar initials.

---

Office of Initial Patent Examination (571) 272-4000, or 1-800-PTO-9199, or 1-800-972-6382  
PART 2 - COPY TO BE RETURNED WITH RESPONSE



Docket No: 04860.P4895

Patent

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
 Andrew Platzter, et al. )  
 Application No.: 11/620,717 )  
 Filing Date: January 7, 2007 )  
 For: APPLICATION PROGRAMMING )  
 INTERFACES FOR SCROLLING )  
 OPERATIONS )

Examiner: Not yet assigned

Art Unit: 2193

Mail Stop: Missing Parts  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

RESPONSE TO NOTICE TO FILE MISSING PARTS OF APPLICATION  
(FILING DATE GRANTED)

Sir:

In response to the Notice to File Missing Parts of Application (Filing Date Granted) mailed February 7, 2007, please find enclosed:

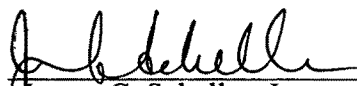
- (1) an executed Declaration & Power of Attorney for the above-noted patent application;
- (2) a check in the amount of \$130.00 in payment of the surcharge of 37 C.F.R. § 1.16(e);
- (3) a signed Power of Attorney (PTO/SB/80);
- (4) a Statement under 37 C.F.R. 3.73(b) with a true copy of the executed Assignment; and
- (5) a copy of the Notice to File Missing Parts of Application.

If any additional fee is required, please charge Deposit Account No. 02-2666. A duplicate of this Response is enclosed for deposit account charging purposes.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: 4/3, 2007

  
 \_\_\_\_\_  
 James C. Scheller, Jr.  
 Reg. No. 31,195

12400 Wilshire Blvd.  
 Seventh Floor  
 Los Angeles, CA 90025-1026  
 (408) 720-8300

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to the Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450

on April 3, 2007  
 \_\_\_\_\_  
 Date of Deposit  
Connie Thayer  
 \_\_\_\_\_  
 Name of Person Mailing Correspondence  
Connie Thayer 4-3-07  
 \_\_\_\_\_  
 Signature Date

Attorney Docket No.: 04860.P4895

PATENT

First Named Inventor: Andrew Platzer

Check One:

Complete If Known:



Declaration Submitted with Initial Filing  OR Declaration Submitted After Initial Filing (Surcharge under 37 C.F.R. § 1.16(e) Required).

Application No.: 11/620,717  
Filing Date: January 7, 2007  
Art Unit: 2193  
Examiner Name: not yet assigned

**DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION**

I hereby declare that:

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**APPLICATION PROGRAMMING INTERFACES FOR SCROLLING OPERATIONS**

the specification of which

X is attached hereto OR was filed on (MM/DD/YYYY) 01/07/2007 as United States Application Number 11/620,717 or PCT International Application Number \_\_\_\_\_ and was amended on (MM/DD/YYYY) \_\_\_\_\_ (if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

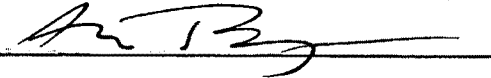
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed:

<u>Prior Foreign Application(s)</u>			<u>Priority Claimed?</u>		<u>Certified Copy Attached?</u>	
<u>(Number)</u>	<u>(Country)</u>	<u>(Foreign Filing Date - MM/DD/YYYY)</u>	<u>Yes</u>	<u>No</u>	<u>Yes</u>	<u>No</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**NAME OF SOLE OR FIRST INVENTOR:**  A petition has been filed for this unsigned inventor

Full Name: Andrew Platzer  
(Given Name (First and Middle [if any]), Family Name (or Surname), and Suffix [if any])

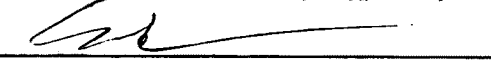
Inventor's Signature  Date 3/29/07

Residence Santa Clara, California, USA Citizenship CANADA  
(City, State, Country) (Country)

Mailing Address 3224 El Sobrante St.  
Santa Clara, CA 95051

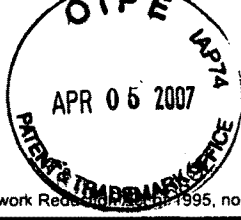
**NAME OF SECOND INVENTOR:**  A petition has been filed for this unsigned inventor

Full Name: Scott Herz  
(Given Name (First and Middle [if any]), Family Name (or Surname), and Suffix [if any])

Inventor's Signature  Date 3/27/2007

Residence Santa Clara, California, USA Citizenship United States of America  
(City, State, Country) (Country)

Mailing Address 2469 Rebecca Lynn Way  
Santa Clara, CA 95050



Under the Paperwork Reduction Project of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO**

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:

Practitioners associated with the Customer Number: 45217

OR

Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:

The address associated with Customer Number: 45217

OR

<input type="checkbox"/> Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone	Email		

Assignee Name and Address:

Apple Inc.  
 1 Infinite Loop  
 Cupertino, CA 95014

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

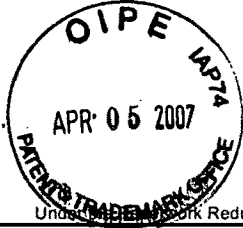
**SIGNATURE of Assignee of Record**

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	February 26, 2007
Name	Richard J. Lutton	Telephone	(408) 974-9453
Title	Assistant Secretary and Chief Patent Counsel		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. 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 3 minutes 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.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Apple Inc.

Application No./Patent No./Control No.: 11/620,717 Filed/Issue Date: January 7, 2007

Entitled: APPLICATION PROGRAMMING INTERFACES FOR SCROLLING OPERATIONS

Apple Inc., a California Corporation  
(Name of Assignee) (Type of Assignee: corporation, partnership, university, government agency, etc.)

states that it is:

- 1.  the assignee of the entire right, title, and interest; or
- 2.  an assignee of less than the entire right, title and interest  
(The extent (by percentage) of its ownership interest is \_\_\_\_\_%)

in the patent application/patent identified above by virtue of either:

A.  An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or a true copy of the original assignment is attached.

OR

B.  A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

- 1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
- 2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
- 3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

**As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.**

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature  
James C. Scheller, Jr.

4/3/2007  
Date  
(408) 720-8300

Printed or Typed Name  
Attorney for Applicant  
Title

Telephone Number

This collection of information is required by 37 CFR 3.73(b). 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 12 minutes 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.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**ASSIGNMENT OF PATENT APPLICATION**

Attorney Docket No.: 04860.P4895

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, the undersigned, Andrew Platzer and Scott Herz, hereby sell, assign, and transfer to Apple Inc.

a corporation of California,  
(Type of Assignee: e.g., corporation, company, partnership, university, etc.)

having a principal place of business at 1 Infinite Loop, Cupertino, CA, 95014,

("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which may have a declaration executed by the undersigned prior hereto or concurrently herewith and is entitled

**APPLICATION PROGRAMMING INTERFACES FOR SCROLLING OPERATIONS**

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number 11/620,717 filed January 7, 2007,

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or



improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

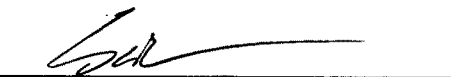
covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

**Each Inventor: Please Sign and Date Below:**

3/29, 2007  
Date

  
Name: Andrew Platzner

3/27, 2007  
Date

  
Name: Scott Herz

Assignment Document Return Address:  
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP  
12400 Wilshire Blvd., Seventh Floor  
Los Angeles, CA 90025-1026  
(408) 720-8300



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

Table with 7 columns: APPLICATION NUMBER, FILING or 371(c) DATE, GRP ART UNIT, FIL FEE REC'D, ATTY.DOCKET.NO, TOT CLAIMS, IND CLAIMS. Row 1: 11/620,717, 01/07/2007, 2193, 8930, 04860.P4895, 88, 25

CONFIRMATION NO. 9801

UPDATED FILING RECEIPT

8791
BLAKELY SOKOLOFF TAYLOR & ZAFMAN
12400 WILSHIRE BOULEVARD
SEVENTH FLOOR
LOS ANGELES, CA90025-1030

Date Mailed: 05/01/2007

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Andrew Platzer, Santa Clara, CA;
Scott Herz, Santa Clara, CA;

Power of Attorney: The patent practitioners associated with Customer Number 45217

Domestic Priority data as claimed by applicant

Foreign Applications

If Required, Foreign Filing License Granted: 02/05/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US11/620,717

Projected Publication Date: Request for Non-Publication Acknowledged

Non-Publication Request: Yes

Early Publication Request: No

Title

Application Programming Interfaces for Scrolling Operations

Preliminary Class

717

## PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

---

### LICENSE FOR FOREIGN FILING UNDER

#### Title 35, United States Code, Section 184

#### Title 37, Code of Federal Regulations, 5.11 & 5.15

#### GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

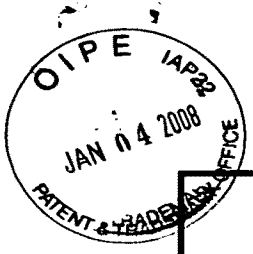
This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of

Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).



01-07-08

IFW

**RESCISSION OF PREVIOUS NONPUBLICATION REQUEST**  
**(35 U.S.C. 122(b)(2)(B)(ii))**  
**AND, IF APPLICABLE,**  
**NOTICE OF FOREIGN FILING**  
**(35 U.S.C. 122(b)(2)(B)(iii))**

Send completed form to:  
**Mail Stop PG Pub**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
FAX: (703) 305-8568

Application Number 11/620,717  
Filing Date 07 January 2007  
First Named Inventor Andrew Platzer  
Title APPLICATION PROGRAMMING INTERFACES FOR SCROLLING OPERATIONS

Attorney Docket No. 004860.P4895  
Group Art Unit 2193  
Examiner Not Yet Assigned

A request that the above-identified application not be published under 35 U.S.C. 122(b) (nonpublication request) was included with the above-identified application on filing pursuant to 35 U.S.C. 122(b)(2)(B)(i). I hereby **rescind** the previous nonpublication request.

If a notice of foreign or international filing is or will be required by 35 U.S.C. 122(b)(2)(B) (iii) and 37 CFR 1.213(c), I hereby provide such notice. This notice is being provided no later than forty-five (45) days after the date of such foreign or international filing.

If a notice of subsequent foreign or international filing required by 35 U.S.C. 122(b)(2)(B)(iii) and 37 CFR 1.213(c) was not filed within forty-five (45) days after the date of filing of the foreign or international application, the application is ABANDONED, and a petition to revive under 37 CFR 1.137(b) is required. See 37 CFR 1.137(f).

Jan. 4, 2008  
Date  
(408) 720-8300  
Telephone

[Signature]  
Signature  
James C. Scheller, Jr.  
Typed or Printed Name  
31.195  
Registration No.

**This request must be signed in compliance with 37 CFR 1.33(b).**

If information or assistance is needed in completing this form, please contact the Pre-Grant Publication Division at (703) 605-4283 or by e-mail at [PGPub@USPTO.gov](mailto:PGPub@USPTO.gov).

**EXPRESS MAIL STATEMENT**

"Express Mail" mailing label number: EV 953 691 090 US  
Date of Deposit: 04 January 2007

I hereby state that I am causing this correspondence to be deposited with the United States Postal Service "Express Mail Post Office to Addressee" service on the date indicated above and that this correspondence has been addressed to: Mail Stop PG Pub, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Name (Print/Type) Jessica Savage  
Signature [Signature] Date Signed 1/4/2008

# BLAKELY SOKOLOFF TAYLOR & ZAFMAN

A LIMITED LIABILITY PARTNERSHIP INCLUDING LAW CORPORATIONS

TELEPHONE (408) 720-8300

FACSIMILE (408) 720-8383

BSTZ\_MAIL@BSTZ.COM

WWW.BSTZ.COM



INTELLECTUAL PROPERTY LAW

SILICON VALLEY

1279 OAKMEAD PARKWAY  
SUNNYVALE, CALIFORNIA 94085-4040

OTHER OFFICES

LOS ANGELES, CA  
ORANGE COUNTY/COSTA MESA, CA  
DENVER, CO  
PORTLAND/BEAVERTON, OR  
SEATTLE, WA

04 January 2008

MS PG Pub  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

*Via Express Mail*  
EV 953 691 090 US


Re: USSN: 11/620,717 Filed: 07 January 2007  
Applicant: Andrew Platzer et al  
Title: APPLICATION PROGRAMMING INTERFACES FOR  
SCROLLING OPERATIONS  
*Transmittal of Request to Rescind Previous Nonpublication Request  
Under 35 USC 122(b)(2)(B)(ii) and Notification of Foreign Filing  
Under 35 USC 122(b)(2)(B)(iii)*  
Our File No.: 4860.P4895

Dear Sirs:

We have filed the above-identified application under the Patent Cooperation Treaty. A Request and Certification under 35 USC 122(b)(2)(B)(i) has been submitted for this invention. We herewith submit a Request to Rescind Previous Nonpublication Request under 35 USC 122(b)(2)(B)(ii) and a Notification of Foreign Filing under 35 USC 122(b)(2)(B)(iii).

Respectfully submitted,

Blakely, Sokoloff, Taylor & Zafman LLP

  
James C. Scheller, Jr.  
Reg. No. 31,195

JCS/SKW/jls  
Enclosure

APLND00027209



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

Table with 4 columns: APPLICATION NUMBER (11/620,717), FILING OR 371(C) DATE (01/07/2007), FIRST NAMED APPLICANT (Andrew Platzer), ATTY. DOCKET NO./TITLE (04860.P4895)

CONFIRMATION NO. 9801

45217
APPLE COMPUTER, INC./BLAKELY
1279 OAKMEAD PARKWAY
SUNNYVALE, CA 94085-4040

NONPUBLICATION RESCISSION LETTER



Date Mailed: 01/15/2008

Communication Regarding Rescission Of Nonpublication Request and/or Notice of Foreign Filing

Applicant's rescission of the previously-filed nonpublication request and/or notice of foreign filing is acknowledged. The paper has been reflected in the Patent and Trademark Office's (USPTO's) computer records so that the earliest possible projected publication date can be assigned.

The projected publication date is 07/10/2008.

If applicant rescinded the nonpublication request before or on the date of "foreign filing,"1 then no notice of foreign filing is required.

If applicant foreign filed the application after filing the above application and before filing the rescission, and the rescission did not also include a notice of foreign filing, then a notice of foreign filing (not merely a rescission) is required to be filed within 45 days of the date of foreign filing. See 35 U.S.C. § 122(b)(2)(B)(iii), and Clarification of the United States Patent and Trademark Office's Interpretation of the Provisions of 35 U.S.C. § 122(b)(2)(B)(ii)-(iv), 1272 Off. Gaz. Pat. Office 22 (July 1, 2003).

If a notice of foreign filing is required and is not filed within 45 days of the date of foreign filing, then the application becomes abandoned pursuant to 35 U.S.C. § 122(b)(2)(B)(iii). In this situation, applicant should either file a petition to revive or notify the Office that the application is abandoned. See 37 CFR 1.137(f). Any such petition to revive will be forwarded to the Office of Petitions for a decision. Note that the filing of the petition will not operate to stay any period of reply that may be running against the application.

Questions regarding petitions to revive should be directed to the Office of Petitions at (571) 272-3282. Questions regarding publications of patent applications should be directed to the patent application publication hotline at (703) 605-4283 or by e-mail ppub@uspto.gov.

1 Note, for purpose of this notice, that "foreign filing" means "filing an application directed to the same invention in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing".



APPLICATION NUMBER	FILING OR 371(c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/620,717	01/07/2007	Andrew Platzer	04860.P4895

**CONFIRMATION NO. 9801**

45217  
APPLE COMPUTER, INC./BLAKELY  
1279 OAKMEAD PARKWAY  
SUNNYVALE, CA94085-4040

Date Mailed. 01/17/2008

**NOTICE OF NEW OR REVISED PROJECTED PUBLICATION DATE**

The above-identified application has a new or revised projected publication date. The current projected publication date for this application is 07/10/2008. If this is a new projected publication date (there was no previous projected publication date), the application has been cleared by Licensing & Review or a secrecy order has been rescinded and the application is now in the publication queue.

If this is a revised projected publication date (one that is different from a previously communicated projected publication date), the publication date has been revised due to processing delays in the USPTO or the abandonment and subsequent revival of an application. The application is anticipated to be published on a date that is more than six weeks different from the originally-projected publication date.

More detailed publication information is available through the private side of Patent Application Information Retrieval (PAIR) System. The direct link to access PAIR is currently <http://pair.uspto.gov>. Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Questions relating to this Notice should be directed to the Office of Patent Publication at 1-888-786-0101.

PART 1 - ATTORNEY/APPLICANT COPY





UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

Table with 4 columns: APPLICATION NUMBER (11/620,717), FILING OR 371(C) DATE (01/07/2007), FIRST NAMED APPLICANT (Andrew Platzer), ATTY. DOCKET NO./TITLE (04860.P4895)

CONFIRMATION NO. 9801

PUBLICATION NOTICE



45217
APPLE INC./BSTZ
BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP
1279 OAKMEAD PARKWAY
SUNNYVALE, CA 94085-4040

Date Mailed: 07/10/2008

Title:Application Programming Interfaces for Scrolling Operations

Publication No.US-2008-0168384-A1

Publication Date:07/10/2008

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently http://pair.uspto.gov/. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
11/620,717 01/07/2007 Andrew Platzer 04860.P4895 9801

45217 7590 04/03/2009
APPLE INC./BSTZ
BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP
1279 OAKMEAD PARKWAY
SUNNYVALE, CA 94085-4040

EXAMINER

BAUTISTA, XIOMARA L

ART UNIT PAPER NUMBER

2179

MAIL DATE DELIVERY MODE

04/03/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 11/620,717	<b>Applicant(s)</b> PLATZER ET AL.	
	<b>Examiner</b> X. L. Bautista	<b>Art Unit</b> 2179	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1)  Responsive to communication(s) filed on 07 January 2007.
- 2a)  This action is **FINAL**.                      2b)  This action is non-final.
- 3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4)  Claim(s) 1-88 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5)  Claim(s) \_\_\_\_\_ is/are allowed.
- 6)  Claim(s) \_\_\_\_\_ is/are rejected.
- 7)  Claim(s) \_\_\_\_\_ is/are objected to.
- 8)  Claim(s) 1-88 are subject to restriction and/or election requirement.

**Application Papers**

- 9)  The specification is objected to by the Examiner.
- 10)  The drawing(s) filed on \_\_\_\_\_ is/are: a)  accepted or b)  objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All    b)  Some \*    c)  None of:
1.  Certified copies of the priority documents have been received.
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date: _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                        | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Election/Restrictions*

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. **Claims 1-14**, drawn to creating an event object in response to user input; determining the type of operation the event object invokes; issuing a scroll or gesture call based on the determined invoking operation, classified in class 715, subclass 784.
  - II. **Claims 15-32**, drawn to transferring a set bounce call, classified in class 715, subclass 784.
  - III. **Claims 33-51**, drawn to transferring a rubberband call, classified in class 715, subclass 784.
  - IV. **Claims 52-73, 78 and 79**, drawn to transferring a directional scroll call, classified in class 715, subclass 784.
  - V. **Claims 74, 75, and 80-88**, drawn to causing a bounce of a scrolled region in an opposite direction of a scroll based on a region past an edge of the scrolled region being visible at the end of the scroll, classified in class 715, subclass 784.
  - VI. **Claims 76 and 77**, drawn to causing a rubberband effect on a scrolled region by a predetermined maximum displacement when the scrolled region exceeds a display edge, classified in class 715, subclass 784.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I, II, III, IV, V and VI are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, subcombination V has separate utility such as specifying a bounce operation to cause a bounce of a scrolled region in an opposite direction of a scroll based on a region past an edge. See MPEP § 806.05(d).

The examiner has required restriction between subcombinations usable together. Where applicant elects a subcombination and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

3. Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:

- (a) the inventions have acquired a separate status in the art in view of their different classification;
- (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;
- (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
- (d) the prior art applicable to one invention would not likely be applicable to another invention;
- (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

**Applicant is advised that the reply to this requirement to be complete must include (i) an election of a invention to be examined** even though the requirement may be traversed (37 CFR 1.143) **and (ii) identification of the claims encompassing the elected invention.**

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after

the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

4. A telephone call was made to Mr. Dermot Miller on March 31, 2009 to request an oral election to the above restriction requirement, but did not result in an election being made.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

### ***Conclusion***

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to X. L. Bautista whose telephone number is (571) 272-4132. The examiner can normally be reached on Monday-Thursday 8:00AM-6:00PM.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on (571) 272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/X. L. Bautista/  
Primary Examiner, Art Unit 2179

March 31, 2009



<b>Index of Claims</b>  	<b>Application/Control No.</b>  11620717	<b>Applicant(s)/Patent Under Reexamination</b>  PLATZER ET AL.
	<b>Examiner</b>  X. L. Bautista	<b>Art Unit</b>  2179

✓	<b>Rejected</b>
=	<b>Allowed</b>


-	<b>Cancelled</b>
÷	<b>Restricted</b>

N	<b>Non-Elected</b>
I	<b>Interference</b>

A	<b>Appeal</b>
O	<b>Objected</b>

Claims renumbered in the same order as presented by applicant
  CPA
  T.D.
  R.1.47

CLAIM		DATE							
Final	Original	03/31/2009							
	1	+							
	2	+							
	3	+							
	4	+							
	5	+							
	6	+							
	7	+							
	8	+							
	9	+							
	10	+							
	11	+							
	12	+							
	13	+							
	14	+							
	15	+							
	16	+							
	17	+							
	18	+							
	19	+							
	20	+							
	21	+							
	22	+							
	23	+							
	24	+							
	25	+							
	26	+							
	27	+							
	28	+							
	29	+							
	30	+							
	31	+							
	32	+							
	33	+							
	34	+							
	35	+							
	36	+							

<b>Index of Claims</b>  	<b>Application/Control No.</b>  11620717	<b>Applicant(s)/Patent Under Reexamination</b>  PLATZER ET AL.
	<b>Examiner</b>  X. L. Bautista	<b>Art Unit</b>  2179

✓	<b>Rejected</b>
=	<b>Allowed</b>


-	<b>Cancelled</b>
÷	<b>Restricted</b>

N	<b>Non-Elected</b>
I	<b>Interference</b>

A	<b>Appeal</b>
O	<b>Objected</b>

Claims renumbered in the same order as presented by applicant
  CPA
  T.D.
  R.1.47

CLAIM		DATE									
Final	Original	03/31/2009									
	37	+									
	38	+									
	39	+									
	40	+									
	41	+									
	42	+									
	43	+									
	44	+									
	45	+									
	46	+									
	47	+									
	48	+									
	49	+									
	50	+									
	51	+									
	52	+									
	53	+									
	54	+									
	55	+									
	56	+									
	57	+									
	58	+									
	59	+									
	60	+									
	61	+									
	62	+									
	63	+									
	64	+									
	65	+									
	66	+									
	67	+									
	68	+									
	69	+									
	70	+									
	71	+									
	72	+									

<b>Index of Claims</b>  	<b>Application/Control No.</b>  11620717	<b>Applicant(s)/Patent Under Reexamination</b>  PLATZER ET AL.
	<b>Examiner</b>  X. L. Bautista	<b>Art Unit</b>  2179

✓	<b>Rejected</b>
=	<b>Allowed</b>

-	<b>Cancelled</b>
÷	<b>Restricted</b>

N	<b>Non-Elected</b>
I	<b>Interference</b>

A	<b>Appeal</b>
O	<b>Objected</b>

Claims renumbered in the same order as presented by applicant
  CPA
  T.D.
  R.1.47

CLAIM		DATE							
Final	Original	03/31/2009							
	73	+							
	74	+							
	75	+							
	76	+							
	77	+							
	78	+							
	79	+							
	80	+							
	81	+							
	82	+							
	83	+							
	84	+							
	85	+							
	86	+							
	87	+							
	88	+							



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NUMBER	PATENT NUMBER	GROUP ART UNIT	FILE WRAPPER LOCATION
11/620,717		2179	2174



**Correspondence Address/Fee Address Change**

The following fields have been set to Customer Number 45217 on 05/22/2009

- Correspondence Address
- Power of Attorney Address

The address of record for Customer Number 45217 is:

45217  
APPLE INC./BSTZ  
BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP  
1279 OAKMEAD PARKWAY  
SUNNYVALE, CA 94085-4040

## Electronic Patent Application Fee Transmittal

<b>Application Number:</b>	11620717
<b>Filing Date:</b>	07-Jan-2007
<b>Title of Invention:</b>	Application Programming Interfaces for Scrolling Operations
<b>First Named Inventor/Applicant Name:</b>	Andrew Platzer
<b>Filer:</b>	James Scheller Jr./Connie Thayer
<b>Attorney Docket Number:</b>	04860.P4895

Filed as Large Entity

### Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
<b>Basic Filing:</b>				
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
<b>Post-Allowance-and-Post-Issuance:</b>				
<b>Extension-of-Time:</b>				
Extension - 1 month with \$0 paid	1251	1	130	130

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
<b>Miscellaneous:</b>				
<b>Total in USD (\$)</b>				<b>130</b>

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	5409090
<b>Application Number:</b>	11620717
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	9801
<b>Title of Invention:</b>	Application Programming Interfaces for Scrolling Operations
<b>First Named Inventor/Applicant Name:</b>	Andrew Platzer
<b>Customer Number:</b>	45217
<b>Filer:</b>	James Scheller Jr./Connie Thayer
<b>Filer Authorized By:</b>	James Scheller Jr.
<b>Attorney Docket Number:</b>	04860.P4895
<b>Receipt Date:</b>	27-MAY-2009
<b>Filing Date:</b>	07-JAN-2007
<b>Time Stamp:</b>	20:22:23
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$130
RAM confirmation Number	7095
Deposit Account	022666
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Response to Election / Restriction Filed	04860P4895_election_respons e.PDF	41364 <small>73bed7d68b7cec3fd6afe7fcf95d643cd6fd4 d1b</small>	no	1

### Warnings:

### Information:

2	Fee Worksheet (PTO-875)	fee-info.pdf	29878 <small>7e65eaf0185a128086987f9eead399fd3821 bc27</small>	no	2
---	-------------------------	--------------	---	----	---

### Warnings:

### Information:

**Total Files Size (in bytes):** 71242

**This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.**

#### **New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

#### **National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

#### **New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**



Atty. Docket No. 04860.P4895

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	)	
Andrew Platzer, et al.	)	Examiner: Bautista, Xiomara L.
	)	
Application No. 11/620,717	)	Art Unit: 2179
	)	
Filed: January 7, 2007	)	
	)	Confirmation No. 9801
For: APPLICATION PROGRAMMING	)	
INTERFACES FOR SCROLLING OPERATIONS	)	
<hr/>		
Commissioner for Patents		
P.O. Box 1450		
Alexandria, VA 22313-1450		

RESPONSE TO OFFICE ACTION

Dear Sir:

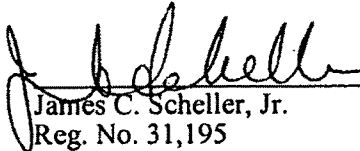
Please enter the following response to the Office Action mailed April 3, 2009.

In response to the restriction, Applicant elects Group I (claims 1-14) and believes that at least these claims encompass the elected invention.

Applicant respectfully requests a one-month extension of time to respond to the pending Office Action. Please charge Deposit Account No. 02-2666 in the amount of \$130.00 for this extension. Furthermore, please charge any shortages and credit any overcharges to our Deposit Account No. 02-2666.

Respectfully submitted,  
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: May 27, 2009

  
 \_\_\_\_\_  
 James C. Scheller, Jr.  
 Reg. No. 31,195

1279 Oakmead Parkway  
Sunnyvale, CA 94085  
(408) 720-8300

CERTIFICATE OF ELECTRONIC FILING

I hereby certify that this correspondence is being deposited with the United States Patent and Trademark Office via electronic filing through the United States Patent and Trademark Electronic Filing System on:

<u>May 27, 2009</u>	_____
Date of Deposit	
<u>Connie Thayer</u>	_____
Name of Person Filing Correspondence	
<u>Connie Thayer</u>	<u>5-27-09</u>
Signature	Date



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/620,717	01/07/2007	Andrew Platzer	04860.P4895	9801

45217 7590 07/08/2009  
APPLE INC./BSTZ  
BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP  
1279 OAKMEAD PARKWAY  
SUNNYVALE, CA 94085-4040

EXAMINER
----------

BAUTISTA, XIOMARA L

ART UNIT	PAPER NUMBER
----------	--------------

2179

MAIL DATE	DELIVERY MODE
-----------	---------------

07/08/2009

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 11/620,717	<b>Applicant(s)</b> PLATZER ET AL.	
	<b>Examiner</b> X. L. Bautista	<b>Art Unit</b> 2179	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1)  Responsive to communication(s) filed on 07 January 2007.
- 2a)  This action is **FINAL**.                      2b)  This action is non-final.
- 3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4)  Claim(s) 1-14 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5)  Claim(s) 1-7 is/are allowed.
- 6)  Claim(s) 8-14 is/are rejected.
- 7)  Claim(s) \_\_\_\_\_ is/are objected to.
- 8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9)  The specification is objected to by the Examiner.
- 10)  The drawing(s) filed on 07 January 2007 is/are: a)  accepted or b)  objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All    b)  Some \*    c)  None of:
1.  Certified copies of the priority documents have been received.
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |  |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date: _____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                         | 5) <input type="checkbox"/> Notice of Informal Patent Application                        |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date: _____. | 6) <input type="checkbox"/> Other: _____.  |

## DETAILED ACTION

### *Specification*

1. Brief description of figures 30A and 30B are missing in the specification.

### ***Claim Rejections - 35 USC § 101***

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. Claims 8-14 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claim 8 recites a "machine-readable medium" that is defined in the specification as a "form of propagated signals" (par. 0056). Claims that recite nothing but the physical characteristics of a form of energy, such as a frequency, voltage, carrier wave, or the strength of a magnetic field, define energy or magnetism, per se, and as such are nonstatutory natural phenomena. O'Reilly, 56 U.S. (15 How.) at 112-14. Moreover, it does not appear that a claim reciting a signal encoded with functional descriptive material falls within any of the categories of patentable subject matter set forth in § 101. First, a claimed signal is clearly not a "process" under § 101 because it is not a series of steps. The other three § 101 classes of machine, compositions of matter and manufactures "relate to structural entities and can be grouped as 'product' claims in

order to contrast them with process claims." 1 D. Chisum, Patents § 1.02 (1994). The three product classes have traditionally required physical structure or material.

### ***Allowable Subject Matter***

4. Claims 1-7 are allowed.
5. The following is a statement of reasons for the indication of allowable subject matter: Prior art of record fails to teach a method of responding to a gesture call by scaling a view associated with an event object based on receiving a plurality of input points as a user input.

### ***Conclusion***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to X. L. Bautista whose telephone number is (571) 272-4132. The examiner can normally be reached on Monday-Thursday 8:00AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on (571) 272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/X. L. Bautista/  
Primary Examiner, Art Unit 2179

03 July 2009

<b>Notice of References Cited</b>	Application/Control No. 11/620,717	Applicant(s)/Patent Under Reexamination PLATZER ET AL.	
	Examiner X. L. Bautista	Art Unit 2179	Page 1 of 1

**U.S. PATENT DOCUMENTS**

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A US-6,677,965 B1	01-2004	Ullmann et al.	715/786
*	B US-2008/0168395 A1	07-2008	Ording et al.	715/833
*	C US-2008/0048978 A1	02-2008	TRENT et al.	345/157
*	D US-2006/0236263 A1	10-2006	Bathiche et al.	715/786
*	E US-2006/0038796 A1	02-2006	Hinckley et al.	345/173
*	F US-2008/0231610 A1	09-2008	Hotelling et al.	345/173
	G US-			
	H US-			
	I US-			
	J US-			
	K US-			
	L US-			
	M US-			

**FOREIGN PATENT DOCUMENTS**

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N				
	O				
	P				
	Q				
	R				
	S				
	T				

**NON-PATENT DOCUMENTS**

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)				
	U	Toshiyuki MASUI et al; "Elastic Graphical Interfaces for Precise Data Manipulation", 1995; ACM; pp. 143-144.			
	V				
	W				
	X				

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



UNITED STATES PATENT AND TRADEMARK OFFICE


UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov

BIB DATA SHEET

CONFIRMATION NO. 9801

<b>SERIAL NUMBER</b> 11/620,717	<b>FILING or 371(c) DATE</b> 01/07/2007 <b>RULE</b>	<b>CLASS</b> <del>717</del> 715	<b>GROUP ART UNIT</b> 2179	<b>ATTORNEY DOCKET NO.</b> 04860.P4895		
<b>APPLICANTS</b> Andrew Platzer, Santa Clara, CA; Scott Herz, Santa Clara, CA; <b>** CONTINUING DATA *****</b> <b>** FOREIGN APPLICATIONS *****</b> <b>** IF REQUIRED, FOREIGN FILING LICENSE GRANTED **</b> 02/05/2007						
Foreign Priority claimed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	35 USC 119(a-d) conditions met <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Met after Allowance	<b>STATE OR COUNTRY</b> CA	<b>SHEETS DRAWINGS</b> 37	<b>TOTAL CLAIMS</b> 88	<b>INDEPENDENT CLAIMS</b> 25
Verified and /Xiomar L BAUTISTA/	Acknowledged _____ Examiner's Signature	Initials _____				
<b>ADDRESS</b> APPLE INC./BSTZ BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP 1279 OAKMEAD PARKWAY SUNNYVALE, CA 94085-4040 UNITED STATES						
<b>TITLE</b> Application Programming Interfaces for Scrolling Operations						
<b>FILING FEE RECEIVED</b> 8930	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			<input type="checkbox"/> All Fees		
				<input type="checkbox"/> 1.16 Fees (Filing)		
				<input type="checkbox"/> 1.17 Fees (Processing Ext. of time)		
				<input type="checkbox"/> 1.18 Fees (Issue)		
				<input type="checkbox"/> Other _____		
				<input type="checkbox"/> Credit		



<b>Search Notes</b>  	<b>Application/Control No.</b>  11620717	<b>Applicant(s)/Patent Under Reexamination</b>  PLATZER ET AL.
	<b>Examiner</b>  X. L. Bautista	<b>Art Unit</b>  2179

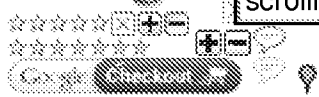
<b>SEARCHED</b>			
<b>Class</b>	<b>Subclass</b>	<b>Date</b>	<b>Examiner</b>
715	764,765,784,786,788,800,864,866,973,974	07/02/09	XB
345	156,157,169,173	07/02/09	XB

<b>SEARCH NOTES</b>			
<b>Search Notes</b>		<b>Date</b>	<b>Examiner</b>
EAST Search		07/02/09	XB
Google Search		07/02/09	XB

<b>INTERFERENCE SEARCH</b>			
<b>Class</b>	<b>Subclass</b>	<b>Date</b>	<b>Examiner</b>

--	--




[Advanced Search](#)  
[Preferences](#)


Web Show options... Results **1 - 10** of about **1,660,000** for **scrolling and (rubberbanding or (rubber banding))**. (0.56 seconds)

Did you mean: [scrolling and \(rubber banding or \(rubber banding\)\)](#)

1. [Free Rubber Band Gun Patterns | Scroll Saw Goodies](#)

Mar 31, 2009 ... Here is a nice collection of free **rubber band** gun patterns. They're easy to make and more fun to play with.

[www.scrollsawvillage.com/ssg/2009/03/rubber-band-guns/](http://www.scrollsawvillage.com/ssg/2009/03/rubber-band-guns/) - [Cached](#) - [Similar](#)

2. [Scrollsaw Workshop: Rapid Fire Rubber Band Gun Scroll Saw Pattern](#)

Rapid Fire **Rubber Band Gun Scroll Saw Pattern**. This is a fun project to make. You know what they say about men and their toys. While I was on vacation I saw ...

[scrollsawworkshop.blogspot.com/.../rapid-fire-rubber-band-gun-scroll-saw.html](http://scrollsawworkshop.blogspot.com/.../rapid-fire-rubber-band-gun-scroll-saw.html)

- [Cached](#) - [Similar](#)

3. [Rubber band and no-spilling contest | 11 heavens](#)

Why are we using a `<span>` for our **rubber band** if we're setting its CSS display .... the Font size in IE 6 (ctrl + **scroll** wheel), the scrollbars appear. ...

[11heavens.com/solving-float-problems](http://11heavens.com/solving-float-problems) - [Cached](#) - [Similar](#)

4. [Rubber band graphical user interface control - US Patent 6677965 ...](#)

A **rubber band** variable-rate GUI control for use in conjunction with GUI controls, such as sliders, **scroll** bars, virtual joysticks, and oppositional buttons ...

[www.patentstorm.us/patents/6677965.html](http://www.patentstorm.us/patents/6677965.html) - [Similar](#)

5. [Rubber band revolver is your new favorite problem solver | Crave ...](#)

Jun 5, 2009 ... Andy Mangold updates the classic **rubber band** gun Read this blog post by Justin Yu on Crave. ... **Scroll Left Scroll Right**. Business Tech ...

[news.cnet.com/8301-17938\\_105-10258312-1.html](http://news.cnet.com/8301-17938_105-10258312-1.html) - [Cached](#) - [Similar](#)

6. [Rubber Band Guns 1](#)

Most kids would love to have one of these **rubber band** guns! You probably have never seen **rubber band** guns like these. These five **rubber band** guns use the ...

[www.easyscrollpatterns.com/rubberbandguns1.htm](http://www.easyscrollpatterns.com/rubberbandguns1.htm) - [Cached](#) - [Similar](#)

7. [Free rubber band Download - rubber band Software](#)

Support **rubber band** and crop an image. Support Draw overlay text and watermak

image. **Scroll** the image smoothly, and provide a image location bookmark tools. ...  
wareseeker.com/free-rubber-band/ - [Cached](#) - [Similar](#)

8. [QGraphicsView hand scroll and rubber band - Qt Programming ...](#)

I am trying to create (by subclassing) a QGraphicsView that will allow a user to **rubber band** drag with the left mouse button and hand **scroll** with the middle ...  
www.qtforum.org/.../qgraphicsview-hand-scroll-and-rubber-band.html  
- [Cached](#) - [Similar](#)

9. [Las Vegas Rubber Band Guns](#)

**Rubber band** guns and plans for single shot to 20 shot semi-automatic **rubber ...**  
**rubber band** gun plans, click here and **scroll** down to the bottom of the page. ...  
members.cox.net/lvrbgun/ - [Cached](#) - [Similar](#)

10. [Elastic Graphical Interfaces for Precise Data Manipulation](#)

Elastic Interface, Slider, **Scroll Bar**, **Rubber-band** Interface ... We propose using the  
"rubber-band metaphor" to control more precise data than represented ...  
www.sigchi.org/chi95/Electronic/documnts/.../tm\_bdy.htm - [Cached](#) - [Similar](#)

Did you mean to search for: [scrolling and \(rubber banding or \(rubber banding\)\)](#)



[Search within results](#) - [Language Tools](#) - [Search Help](#) - [Dissatisfied? Help us improve](#) - [Try Google Experimental](#)

[Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [Privacy](#) - [About Google](#)

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	42480	(display window screen view) near12 scroll\$3	US-PGPUB; USPAT	OR	ON	2009/07/06 08:26
L2	22138	1 and (((device computer terminal apparatus machine) near10 (portable small (multi adj1 touch) multitouch mobile wireless)) or ((cell cellular) adj2 (phone telephone)) cellphone)	US-PGPUB; USPAT	OR	ON	2009/07/06 08:28
L4	2067	2 and (event near5 (object item element))	US-PGPUB; USPAT	OR	ON	2009/07/06 08:30
L5	1220	4 and (event near12 (input (user adj2 input) entry interact\$3))	US-PGPUB; USPAT	OR	ON	2009/07/06 08:31
L6	253	5 and (event near12 scroll\$3)	US-PGPUB; USPAT	OR	ON	2009/07/06 08:31
L7	17	6 and (event near12 gestur\$3)	US-PGPUB; USPAT	OR	ON	2009/07/06 08:32
L8	12	7 and (scroll\$3 near12 position\$3)	US-PGPUB; USPAT	OR	ON	2009/07/06 08:32
L9	7	8 and ((display window screen view) near12 (rescal\$3 resiz\$3 ((chang\$3 alter\$3) near5 (scale size) scaled scaling))	US-PGPUB; USPAT	OR	ON	2009/07/06 08:34
L10	5	9 and (rubberband\$3)	US-PGPUB; USPAT	OR	ON	2009/07/06 08:34
L11	5	10 and (edge border frame)	US-PGPUB; USPAT	OR	ON	2009/07/06 08:34


L12	5	11 and (scroll\$3 near15 (indicator indicat\$4))	US-PGPUB; USPAT	OR	ON	2009/07/06 08:35
L13	5	12 and (event near12 drag\$5)	US-PGPUB; USPAT	OR	ON	2009/07/06 08:35
L14	5	13 and (rotat\$4)	US-PGPUB; USPAT	OR	ON	2009/07/06 08:36
L15	2	9 not 14	US-PGPUB; USPAT	OR	ON	2009/07/06 08:49
L16	1	("6677965").PN.	US-PGPUB; USPAT	OR	OFF	2009/07/06 09:11
L17	1	16 and ((scroll\$3 slider) near20 (rubberband\$3 (rubber adj1 band\$3) elastic or elasticity or elastically or flexible or flexibility or deform or deformed or deforming or deformation or stress or stressed or stretch or stretchy or expand or expanded or expanding or expandable or expansion or stretchable or stretchability or tensile or tension or tensibility or extensibility or rubbery or springy or springiness or bouncy or rebounding or resilient or resilience or adapt or adapted or adaptable or adjust or adjusted or adjusting or adjustable or justify or justified or justifying or compress or compressed or compressing or compressible or compressive or compressively or contract or contracted or contracting or contractable or contraction))	US-PGPUB; USPAT	OR	ON	2009/07/06 09:13
L18	0	17 and (event near20 (scroll\$4 slid\$3 gestur\$3 drag\$4 rotat\$4))	US-PGPUB; USPAT	OR	ON	2009/07/06 09:14
L19	1	17 and (scroll\$4 slid\$3 gestur\$3 drag\$4 rotat\$4)	US-PGPUB; USPAT	OR	ON	2009/07/06 09:14
L20	1	19 and (edge border frame)	US-PGPUB; USPAT	OR	ON	2009/07/06 09:15

L21	1	20 and (scroll\$3 near20 (indicator indicat\$4 mark\$3 object sign symbol point position))	US-PGPUB; USPAT	OR	ON	2009/07/06 09:20
L22	34000	((scroll\$3 slider) near20 (rubberband\$3 (rubber adj1 band\$3) elastic or elasticity or elastically or flexible or flexibility or deform or deformed or deforming or deformation or stress or stressed or stretch or stretchy or expand or expanded or expanding or expandable or expansion or stretchable or stretchability or tensile or tension or tensibility or extensibility or rubbery or springy or springiness or bouncy or rebounding or resilient or resilience or adapt or adapted or adaptable or adjust or adjusted or adjusting or adjustable or justify or justified or justifying or compress or compressed or compressing or compressible or compressive or compressively or contract or contracted or contracting or contractable or contraction))	US-PGPUB; USPAT	OR	ON	2009/07/06 09:54
L23	198	22 and gestur\$3 and drag\$4 and rotat\$4	US-PGPUB; USPAT	OR	ON	2009/07/06 09:54
L24	189	23 and (edge border frame)	US-PGPUB; USPAT	OR	ON	2009/07/06 09:55
L25	136	24 and ((scroll\$3 slid\$3) near20 (indicator indicat\$4 mark\$3 object sign symbol point position))	US-PGPUB; USPAT	OR	ON	2009/07/06 09:55
L26	119	25 and (((device computer terminal apparatus machine) near10 (portable small (multi adj1 touch) multitouch mobile wireless)) or ((cell cellular) adj2 (phone telephone)) cellphone)	US-PGPUB; USPAT	OR	ON	2009/07/06 10:27
L27	116	26 and ((display window screen view) near12 (scroll\$3 slider))	US-PGPUB; USPAT	OR	ON	2009/07/06 10:27
L28	71	27 and ((scroll\$3 slider) near12 (point position\$3))	US-PGPUB; USPAT	OR	ON	2009/07/06 10:28
L29	38	28 and event	US-PGPUB; USPAT	OR	ON	2009/07/06 10:28

L30	22	29 and ((display window screen view) near12 (rescal\$3 resiz\$3 ((chang\$3 alter\$3) near5 (scale size)) scaled scaling))	US-PGPUB; USPAT	OR	ON	2009/07/06 10:29
L31	16528	((715/764,765,784,786,788,800,864,866,973,974) or (345/156,157,169,173)).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/07/06 10:45
L32	870	31 and ((scroll\$3 slider) near20 (rubberband\$3 (rubber adj1 band\$3) elastic or elasticity or elastically or flexible or flexibility or deform or deformed or deforming or deformation or stress or stressed or stretch or stretchy or expand or expanded or expanding or expandable or expansion or stretchable or stretchability or tensile or tension or tensibility or extensibility or rubbery or springy or springiness or bounciness or rebounding or resilient or resilience or adapt or adapted or adaptable or adjust or adjusted or adjusting or adjustable or justify or justified or justifying or compress or compressed or compressing or compressible or compressive or compressively or contract or contracted or contracting or contractable or contraction))	US-PGPUB; USPAT	OR	ON	2009/07/06 10:45
L33	83	32 and gestur\$3 and drag\$4 and rotat\$4	US-PGPUB; USPAT	OR	ON	2009/07/06 10:46
L34	81	33 and ((scroll\$3 slid\$3) near20 (indicator indicat\$4 mark\$3 object element item sign symbol knob point))	US-PGPUB; USPAT	OR	ON	2009/07/06 10:47
L36	39	34 and ((scroll\$3 slider) near20 (point position\$3))	US-PGPUB; USPAT	OR	ON	2009/07/06 10:47
L37	29	36 not 9 not 16 not 30	US-PGPUB; USPAT	OR	ON	2009/07/06 10:48

7/6/2009 11:10:10 AM

C:\Documents and Settings\xbautista\My Documents\EAST\Workspaces\11620717.wsp

<b><i>Index of Claims</i></b>  	<b>Application/Control No.</b>  11620717	<b>Applicant(s)/Patent Under Reexamination</b>  PLATZER ET AL.
	<b>Examiner</b>  X. L. Bautista	<b>Art Unit</b>  2179

✓	<b>Rejected</b>
=	<b>Allowed</b>

-	<b>Cancelled</b>
÷	<b>Restricted</b>


N	<b>Non-Elected</b>
I	<b>Interference</b>

A	<b>Appeal</b>
O	<b>Objected</b>

Claims renumbered in the same order as presented by applicant
  CPA
  T.D.
  R.1.47

CLAIM		DATE									
Final	Original	03/31/2009									
	1	+									
	2	+									
	3	+									
	4	+									
	5	+									
	6	+									
	7	+									
	8	+									
	9	+									
	10	+									
	11	+									
	12	+									
	13	+									
	14	+									
	15	+									
	16	+									
	17	+									
	18	+									
	19	+									
	20	+									
	21	+									
	22	+									
	23	+									
	24	+									
	25	+									
	26	+									
	27	+									
	28	+									
	29	+									
	30	+									
	31	+									
	32	+									
	33	+									
	34	+									
	35	+									
	36	+									



<b>Index of Claims</b>  	<b>Application/Control No.</b>  11620717	<b>Applicant(s)/Patent Under Reexamination</b>  PLATZER ET AL.
	<b>Examiner</b>  X. L. Bautista	<b>Art Unit</b>  2179

✓	<b>Rejected</b>
=	<b>Allowed</b>


-	<b>Cancelled</b>
÷	<b>Restricted</b>

N	<b>Non-Elected</b>
I	<b>Interference</b>

A	<b>Appeal</b>
O	<b>Objected</b>

Claims renumbered in the same order as presented by applicant
  CPA
 T.D.
 R.1.47

CLAIM		DATE							
Final	Original	03/31/2009							
	37	+							
	38	+							
	39	+							
	40	+							
	41	+							
	42	+							
	43	+							
	44	+							
	45	+							
	46	+							
	47	+							
	48	+							
	49	+							
	50	+							
	51	+							
	52	+							
	53	+							
	54	+							
	55	+							
	56	+							
	57	+							
	58	+							
	59	+							
	60	+							
	61	+							
	62	+							
	63	+							
	64	+							
	65	+							
	66	+							
	67	+							
	68	+							
	69	+							
	70	+							
	71	+							
	72	+							

<b>Index of Claims</b>  	<b>Application/Control No.</b>  11620717	<b>Applicant(s)/Patent Under Reexamination</b>  PLATZER ET AL.
	<b>Examiner</b>  X. L. Bautista	<b>Art Unit</b>  2179

✓	<b>Rejected</b>
=	<b>Allowed</b>

-	<b>Cancelled</b>
÷	<b>Restricted</b>

N	<b>Non-Elected</b>
I	<b>Interference</b>

A	<b>Appeal</b>
O	<b>Objected</b>

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant		<input type="checkbox"/> CPA	<input type="checkbox"/> T.D.	<input type="checkbox"/> R.1.47					
CLAIM		DATE							
Final	Original	03/31/2009							
	73	+							
	74	+							
	75	+							
	76	+							
	77	+							
	78	+							
	79	+							
	80	+							
	81	+							
	82	+							
	83	+							
	84	+							
	85	+							
	86	+							
	87	+							
	88	+							

# Elastic Graphical Interfaces for Precise Data Manipulation

Toshiyuki Masui, Kouichi Kashiwagi, George R. Borden IV

Software Research Laboratories

SHARP Corporation

2613-1 Ichinomoto-cho

Tenri, Nara 632, Japan

Tel: +81-7436-5-0987

E-mail: {masui,kashiwagi,flash}@slab.tnr.sharp.co.jp

## ABSTRACT

We propose an interaction technique for manipulating precise data or selecting one element from a large number of items. Although conventional graphical interaction tools like sliders cannot be used for selecting more items than the pixel size of the slider, we can specify more precise data by using the elastic slider based on the rubber-band metaphor, where a control object can be moved by pulling the object with a rubber-band between the object and the mouse cursor. The same technique can be applied to many graphical interface tools like scroll bars and drawing editors.

**KEYWORDS:** Elastic Interface, Slider, Scroll Bar, Rubber-band Interface

## GRANULARITY PROBLEM OF DIRECT MANIPULATION

In conventional direct manipulation interfaces, graphic objects are directly moved by pointing devices, and an object should always be placed at a pixel location. Since a data value or an item is usually mapped to the location of a control object like a slider knob, it is impossible to specify more data values than the pixel size of the place where the control object can be located. To control more precise movement of the control objects, additional control tools like arrow buttons are sometimes used. However, they do not offer flexible control of the control objects, and the technique cannot be applied to other interface objects like the control points used in graphic editors.

## ELASTIC GRAPHICAL INTERFACE

We propose using the “rubber-band metaphor” to control more precise data than represented simply by the location of the object. In our systems, when we drag a control object using a pointing device, it can be moved directly by the pointing device. But if we click a point other than the control object and drag it, a rubber-band appears between the mouse

Published in:

*ACM Conference on Human Factors in Computing Systems (CHI'95) Conference Companion* (April 1995), ACM press, pp. 143–144.

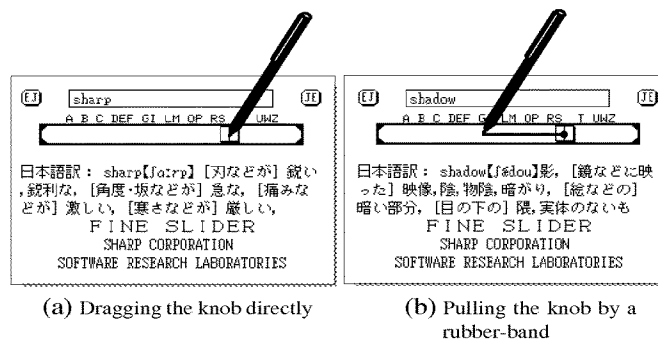


Figure 1: Using FineSlider for a English-Japanese dictionary

cursor and the control object, and the control object moves gradually to the mouse cursor, depending on the length of the rubber-band. When the rubber-band is short and the speed of the control object is very small, the value associated with the control object changes slowly, without changing the location of the control object. When the rubber-band is long and the control object is pulled strongly by the mouse cursor, the value changes faster and the control object moves accordingly.

In the following sections, we show how this elastic interface technique can be used in various graphical interaction tools.

## FineSlider

A FineSlider is a slider augmented with our elastic interface technique. Figure 1 shows the screen images of an English-Japanese dictionary implemented on a pen-based electronic organizer called *Zaurus*. Here, a FineSlider is used for selecting an English word from a dictionary containing 40,000 words. A user can drag the knob of the slider, select a word, and the Japanese translation of the word is displayed at the center of the screen immediately. Because of the low bitmap density of *Zaurus*, the user cannot select more than 200 words only by directly dragging the knob of the slider. However, when the user touches the slider at a place other than the knob, a rubber-band appears and the knob is pulled by the rubber-band, moving at a speed proportional to the length of

the rubber-band. By moving the pen and changing the length of the rubber-band, the user can easily find the target word.

The AlphaSlider[1] is based on another approach to perform similar tasks. The knob of an AlphaSlider consists of two or three parts. When a user clicks his mouse cursor on the upper part of the knob and drags it, the mouse cursor disappears and the knob moves slowly according to the movement of the mouse. When a user clicks his mouse cursor on the lower part and drags it, the knob moves more slowly, enabling fine-tuning of the position of the knob. When the user clicks the slider at a place other than the knob, the knob jumps directly to the cursor position.

Although the AlphaSlider is also useful for selecting a large number of elements, direct movement of the knob is sometimes difficult when the objective point is covered by the knob, and the technique cannot be used for graphical interaction tools other than sliders. A FineSlider has the same appearance as an ordinary slider, can be controlled by simple and intuitive operations, requires only a small space, and offers flexible granularity of searching speed. Also, the same technique can be used for setting multiple values, as shown in Figure 2.

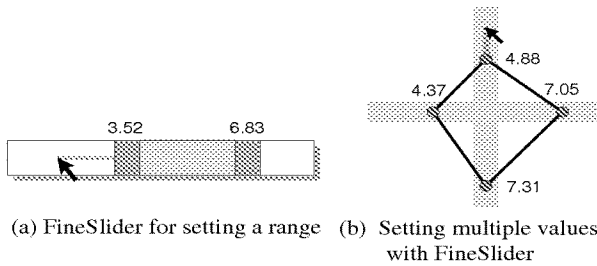


Figure 2: Setting multiple values

### Elastic Scrollbar

Figure 3 shows the elastic scrollbar implemented on the same electronic organizer, Zaurus, using the same technique as the FineSlider. The elastic scrollbar cannot only be used like conventional scrollbars by dragging the knob and going to an arbitrary line of text, the user can also dynamically control

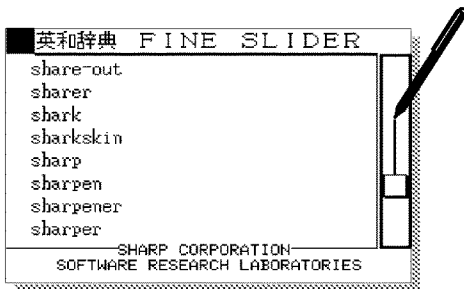


Figure 3: An elastic scrollbar

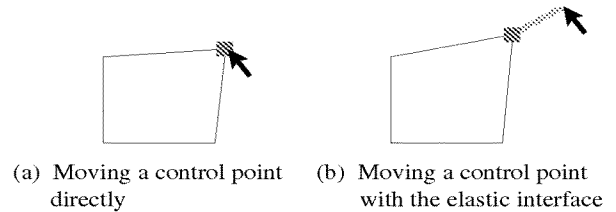


Figure 4: Elastic drawing operation

the scrolling speed by changing the length and direction of the rubber-band.

### Moving The Control Points in a Drawing Editor

Figure 4 shows how the elastic interface can be applied to drawing editors. In conventional drawing editors, all the control points of figures are manipulated directly like shown in Figure 4(a). Using our elastic interface technique, control points can be moved slowly and precisely using a rubber-band like shown in Figure 4(b), to control subtle configuration.

### EVALUATION

We performed an experiment similar to the one introduced in [1], where subjects look for a movie title from a title list with 10,000 entries. Using an AlphaSlider, [1] reports that it took about 24 seconds for novice users and 13 seconds for expert users, on the average. Using a FineSlider, the average search time for all our 8 subjects was 13.8 seconds, and the average search time of the best subject was 10.9 seconds. The conditions of the two experiments are not the same, but there is a possibility that FineSlider is easier to use for novice users.

### CONCLUSIONS

We introduced a simple and uniform way of manipulating precise data in graphical user interfaces, using the rubber-band metaphor. The same technique can be applied to various data entry tasks and selection tasks on any machine with a graphical user interface.

### ACKNOWLEDGEMENTS

We thank Prof. Satoshi Matsuoka at University of Tokyo for giving us many suggestions.

### REFERENCES

- [1] Ahlberg, C., and Shneiderman, B. AlphaSlider: A compact and rapid selector. In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI'94)* (April 1994), Addison-Wesley, pp. 365–371.

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant : Andrew Platzter

Examiner: Bautista, Xiomara L

Appl. No. : 11/620,717

TC/A.U.: 2179

Filed : January 7, 2007

Confirmation No. 9801

For : APPLICATION  
PROGRAMMING  
INTERFACES FOR  
SCROLLING OPERATIONS

**CERTIFICATE OF TRANSMISSION**  
I hereby certify that this correspondence is being  
submitted electronically via EFS Web on the date  
shown below.

Customer No. : 45217

 October 8, 2009  
Connie Thayer Date

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**AMENDMENT**

Sir:

In response to the Office Action of July 8, 2009, applicants respectfully request the Examiner to enter the following amendments and consider the following remarks:

**Amendments to the Specification:**

Please replace paragraph [0056] with the following amended paragraph:

A machine-readable medium includes any mechanism for storing or transmitting information in a form readable by a machine (e.g., a computer). For example, a machine-readable medium includes read only memory ("ROM"); random access memory ("RAM"); magnetic disk storage media; optical storage media; flash memory devices; electrical, optical, acoustical or other form of propagated signals (e.g., carrier waves, infrared signals, digital signals, etc.); etc.

Please replace paragraph [0045] with the following amended paragraph:

~~FIG. 30 is a perspective view of a wireless device in accordance with one embodiment of the present disclosure; FIGS. 30A and 30B illustrate a device 3070 according to one embodiment of the disclosure;~~

**Amendments to the Claims:**

The listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Original) A machine implemented method for scrolling on a display of a device comprising:

- receiving a user input;
- creating an event object in response to the user input;
- determining whether the event object invokes a scroll or gesture operation;
- issuing at least one scroll or gesture call based on invoking the scroll or gesture operation;
- responding to at least one scroll call, if issued, by scrolling a window having a view associated with the event object based on an amount of a scroll with the scroll stopped at a predetermined position in relation to the user input; and
- responding to at least one gesture call, if issued, by scaling the view associated with the event object based on receiving a plurality of input points in the form of the user input.

2. (Original) The method as in claim 1, further comprising:

rubberbanding a scrolling region displayed within the window by a predetermined maximum displacement when the scrolling region exceeds a window edge based on the scroll.

3. (Original) The method as in claim 1, further comprising:

attaching scroll indicators to a content edge of the window.

4. (Original) The method as in claim 1, further comprising:  
attaching scroll indicators to the window edge.
  
5. (Original) The method as in claim 1, wherein determining whether the event object invokes a scroll or gesture operation is based on receiving a drag user input for a certain time period.
  
6. (Original) The method as in claim 1, further comprising:  
responding to at least one gesture call, if issued, by rotating a view associated with the event object based on receiving a plurality of input points in the form of the user input.
  
7. (Original) The method as in claim 1, wherein the device is one of: a data processing device, a portable device, a portable data processing device, a multi touch device, a multi touch portable device, a wireless device, and a cell phone.
  
8. (Currently Amended) A machine readable storage medium storing executable program instructions which when executed cause a data processing system to perform a method comprising:  
receiving a user input;  
creating an event object in response to the user input;  
determining whether the event object invokes a scroll or gesture operation;  
issuing at least one scroll or gesture call based on invoking the scroll or gesture operation;  
responding to at least one scroll call, if issued, by scrolling a window having a view associated with the event object based on an amount of a scroll with the scroll stopped at a predetermined position in relation to the user input; and



responding to at least one gesture call, if issued, by scaling the view associated with the event object based on receiving a plurality of input points in the form of the user input.

9. (Original) The medium as in claim 8, further comprising:

rubberbanding a scrolling region displayed within the window by a predetermined maximum displacement when the scrolled region exceeds a window edge based on the scroll.

10. (Original) The medium as in claim 8, further comprising:

attaching scroll indicators to a content edge of the view.

11. (Original) The medium as in claim 8, further comprising:

attaching scroll indicators to a window edge of the view.

12. (Original) The medium as in claim 8, wherein determining whether the event object invokes a scroll or gesture operation is based on receiving a drag user input for a certain time period.

13. (Original) The medium as in claim 8, further comprising:

responding to at least one gesture call, if issued, by rotating a view associated with the event object based on receiving a plurality of input points in the form of the user input.

14. (Original) The medium as in claim 8, wherein the data processing system is one of: a data processing device, a portable device, a portable data processing device, a multi touch device, a multi touch portable device, a wireless device, and a cell phone.

15.-88. – (Withdrawn)

89. (New) In an environment with user interface software interacting with a software application, an apparatus, comprising:

means for receiving, through a hardware device, a user input on a display of the apparatus;

means for creating an event object in response to the user input;

means for determining whether the event object invokes a scroll or gesture operation;

means for issuing at least one scroll or gesture call based on invoking the scroll or gesture operation;

means for responding to at least one scroll call, if issued, by scrolling a window having a view associated with the event object based on an amount of a scroll with the scroll stopped at a predetermined position in relation to the user input; and

means for responding to at least one gesture call, if issued, by scaling the view associated with the event object based on receiving a plurality of input points in the form of the user input.

90. (New) The apparatus as in claim 89, further comprising:

means for rubberbanding a scrolling region displayed within the window by a predetermined maximum displacement when the scrolling region exceeds a window edge based on the scroll.

91. (New) The apparatus as in claim 89, further comprising:

means for attaching scroll indicators to a content edge of the window.

92. (New) The apparatus as in claim 89, further comprising:

means for attaching scroll indicators to the window edge.

93. (New) The apparatus as in claim 89, wherein determining whether the event object invokes a scroll or gesture operation is based on receiving a drag user input for a certain time period.

94. (New) The apparatus as in claim 89, further comprising:

means for responding to at least one gesture call, if issued, by rotating a view associated with the event object based on receiving a plurality of input points in the form of the user input.

95. (New) The apparatus as in claim 89, wherein the apparatus is one of: a data processing device, a portable device, a portable data processing device, a multi touch device, a multi touch portable device, a wireless device, and a cell phone.

## **Remarks/Arguments**

Applicants respectfully request consideration of the subject application as amended herein. This Amendment is submitted in response to the Office Action mailed July 8, 2009. Claims 1-7 are allowed. Claims 8-14 are rejected.

In this Amendment, claim 8 has been amended. New claims 89-95 have been added. It is respectfully submitted that the amendment does not add new matter.

Applicants reserve all rights with respect to the applicability of the Doctrine of equivalents.

The Examiner indicates that a brief description of figures 30A and 30B are missing in the specification.

Paragraph [0045] has been amended to read as follows: FIGS. 30A and 30B illustrate a device 3070 according to one embodiment of the disclosure;

Support for this amendment can be found in the first sentence of paragraph [0135]. Thus, amended paragraph [0045] provides a brief description of figures 30A and 30B. Applicants respectfully request removal of the objection to the specification.

## **Claim Rejections under 35 U.S.C. §101**

The Examiner has rejected claims 8-14 under 35 U.S.C. §101 because the claimed invention is directed to non-statutory subject matter. The Examiner indicates that claim 8 recites a "machine-readable medium" that is defined in the specification as a "form of propagated signals" [par.0056].

Claim 8 has been amended to recite a "machine readable storage medium."

Paragraph [0056] has been amended to read as follows.

A machine-readable medium includes any mechanism for storing information in a form readable by a machine (e.g., a computer). For example, a machine-readable medium includes read only memory ("ROM"); random access memory ("RAM"); magnetic disk storage media; optical storage media; flash memory devices; etc.

Thus, the "machine readable storage medium" is not defined in the specification as a "form of propagated signals" [par.0056]. Accordingly, applicants respectfully submit that