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
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/432,148	02/05/2024	Sivakumar CHATURVEDI	DAMA60-35891	5745

25883 7590 04/15/2025
MUNCK WILSON MANDALA L.L.P
2000 McKinney Ave Ste 1900
Dallas, TX 75201

EXAMINER	
DORAIS, CRAIG C	

ART UNIT	PAPER NUMBER
2194	

NOTIFICATION DATE	DELIVERY MODE
04/15/2025	ELECTRONIC

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.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

IPdocketing@munckwilson.com
admin@dalpat.com
eofficeaction@appcoll.com

APPLICATION NO.	ISSUE DATE	PATENT NO.
18/432,148	15-Apr-2025	12279116

MUNCK WILSON MANDALA L.L.P
2000 McKinney Ave Ste 1900
Dallas, TX 75201

EGRANT NOTIFICATION

Your electronic patent grant (eGrant) is now available, which can be accessed via Patent Center at https://patentcenter.uspto.gov

The electronic patent grant is the official patent grant under 35 U.S.C. 153. For more information, please visit https://www.uspto.gov/electronicgrants

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/432,148	04/15/2025	12279116	DAMA60-35891	5745

25883 7590 03/26/2025

MUNCK WILSON MANDALA L.L.P
2000 McKinney Ave Ste 1900
Dallas, TX 75201

ISSUE NOTIFICATION

The projected patent number and issue date are specified above. The patent will issue electronically. The electronically issued patent is the official patent grant pursuant to 35 U.S.C. § 153. The patent may be accessed on or after the issue date through Patent Center at https://patentcenter.uspto.gov/. The patent will be available in both the public and the private sides of Patent Center. Further assistance in electronically accessing the patent, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-888-217-9197.

The USPTO is implementing electronic patent issuance with a transition period, during which period the USPTO will mail a ceremonial paper copy of the electronic patent grant to the correspondence address of record. Additional copies of the patent (i.e., certified and presentation copies) may be ordered for a fee from the USPTO's Certified Copy Center at https://certifiedcopycenter.uspto.gov/index.html. The Certified Copy Center may be reached at (800)972-6382.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Center (https://patentcenter.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

INVENTOR(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional inventors):

Sivakumar CHATURVEDI, Allen, TX;
Satish GUNDABATHULA, Irving, TX;
Rashmi HIREMATH, Allen, TX;

APPLICANT(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional applicants):

Damaka, Inc., Richardson, TX;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
18/432,148	02/05/2024	2194	3464	DAMA60-35891	1	1

CONFIRMATION NO. 5745

CORRECTED FILING RECEIPT

25883
MUNCK WILSON MANDALA L.L.P
2000 McKinney Ave Ste 1900
Dallas, TX 75201

OC000000085665069

Date Mailed: 03/12/2025

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. 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 submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction 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 provided that the request is grantable.

Inventor(s)

Sivakumar CHATURVEDI, Allen, TX;
Satish GUNDABATHULA, Irving, TX;
Rashmi HIREMATH, Allen, TX;

Applicant(s)

Damaka, Inc., Richardson, TX;

Power of Attorney: The patent practitioners associated with Customer Number 25883

Domestic Applications for which benefit is claimed

This application is a CON of 18/099,175 01/19/2023 PAT 11,930,362
which is a CON of 17/109,488 12/02/2020 PAT 11,576,046
which is a CON of 16/543,689 08/19/2019 PAT 10,863,357
which is a CON of 15/431,046 02/13/2017 PAT 10,387,220
which is a CON of 15/297,328 10/19/2016 PAT 9,578,092
which is a CON of 15/049,891 02/22/2016 PAT 9,491,233
which is a CON of 14/690,619 04/20/2015 PAT 9,270,744
which is a CON of 14/024,027 09/11/2013 PAT 9,027,032
which claims benefit of 61/846,958 07/16/2013

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) **- None.**
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 02/16/2024

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/432,148**

Projected Publication Date: Not Applicable.

Non-Publication Request: No

Early Publication Request: No
**** SMALL ENTITY ****
Title

SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

Preliminary Class

719

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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 (1-866-999-4258).

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).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

UNITED STATES
PATENT AND TRADEMARK OFFICE

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Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/432,148	**03/10/2025 11:56:01 AM Z ET**	**DAMA60-35891**

Title of Invention

SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5745	FILED BY	Keith Harden
PATENT CENTER #	69508208	AUTHORIZED BY	-
CUSTOMER #	25883	FILING DATE	02/05/2024
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Sivakumar CHATURVEDI

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 500208	**E202530B56247627**	**Keith Harden**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2501	UTILITY ISSUE FEE	516.00	1	516.00
			TOTAL AMOUNT:	**$516.00**

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 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.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

25883 7590 03/05/2025
MUNCK WILSON MANDALA L.L.P
2000 McKinney Ave Ste 1900
Dallas, TX 75201

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/432,148	02/05/2024	Sivakumar CHATURVEDI	DAMA60-35891	5745

TITLE OF INVENTION: SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$516	$0.00	$0.00	$516	06/05/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
DORAIS, CRAIG C	2194	719-313000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: Damaka, Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Richardson, Texas

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required)

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

☒ Electronic Payment via the USPTO patent electronic filing system ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 50-0208

5. **Change in Entity Status** (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29
NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

☐ Applicant asserting small entity status. See 37 CFR 1.27
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

☐ Applicant changing to regular undiscounted fee status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Keith D. Harden/ Date March 10, 2025

Typed or printed name Keith D. Harden Registration No. 74,472

Ex.1002 / Page 11 of 599
Cisco Systems, Inc.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/432,148	**03/10/2025 11:56:01 AM Z ET**	**DAMA60-35891**

Title of Invention

SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5745	FILED BY	Keith Harden
PATENT CENTER #	69508208	FILING DATE	02/05/2024
CUSTOMER #	25883	FIRST NAMED INVENTOR	Sivakumar CHATURVEDI
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
DAMA60-35891 Issue Fee Transmittal.pdf	1	Issue Fee Payment (PTO-85B)	1230 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
DAMA60-35891 Issue Fee Transmittal.pdf	C5EB8AE5FE43EFDC6A2FFE460EC4E474A41AE662A01FABB81F56198F04B0222FA039C18860A49B494D3C15906632FAE798D8580ED217229248E14800B2B02272

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 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.

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

25883 7590 03/05/2025

MUNCK WILSON MANDALA L.L.P
2000 McKinney Ave Ste 1900
Dallas, TX 75201

EXAMINER	
DORAIS, CRAIG C	
ART UNIT	PAPER NUMBER
2194	

DATE MAILED: 03/05/2025

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/432,148	02/05/2024	Sivakumar CHATURVEDI	DAMA60-35891	5745

TITLE OF INVENTION: SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$516	$0.00	$0.00	$516	06/05/2025

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PTOL-85 (Rev. 11/23)

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

25883 7590 03/05/2025
MUNCK WILSON MANDALA L.L.P
2000 McKinney Ave Ste 1900
Dallas, TX 75201

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/432,148	02/05/2024	Sivakumar CHATURVEDI	DAMA60-35891	5745

TITLE OF INVENTION: SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$516	$0.00	$0.00	$516	06/05/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
DORAIS, CRAIG C	2194	719-313000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑Issue Fee ❑Publication Fee (if required)

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via the USPTO patent electronic filing system ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29
NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

❑ Applicant asserting small entity status. See 37 CFR 1.27
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

❑ Applicant changing to regular undiscounted fee status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/432,148	02/05/2024	Sivakumar CHATURVEDI	DAMA60-35891	5745

25883 7590 03/05/2025

MUNCK WILSON MANDALA L.L.P
2000 McKinney Ave Ste 1900
Dallas, TX 75201

EXAMINER	
DORAIS, CRAIG C	

ART UNIT	PAPER NUMBER
2194	

DATE MAILED: 03/05/2025

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

PTOL-85 (Rev. 11/23)

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. 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 30 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. 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.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/ owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013).
https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to:

1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
2) a federal, state, local, or international agency, in response to its request;
3) a contractor of the USPTO having need for the information in order to perform a contract;
4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c));
9) the Office of Personnel Management (OPM) for personnel research purposes; and
10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Notice of Allowability	Application No. 18/432,148	Applicant(s) CHATURVEDI et al.	
	Examiner CRAIG C DORAIS	Art Unit 2194	AIA (FITF) Status Yes

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 01/27/2025.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 1-55 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some* c) ☐ None of the:

   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)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☑ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☑ Interview Summary (PTO-413), Paper No./Mail Date. 20250218.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/CRAIG C DORAIS/
Primary Examiner, Art Unit 2194

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

2. This Office Action is in response to communications received 01/27/2025.

3. Claims 1 – 55 are allowed.

Reasons for Allowance

4. The following is an examiner's statement of reasons for allowance: Independent claim 1 (and similarly, independent claims 28 and 55), when considered as a whole, is allowable over the prior art of record. Specifically, the prior art of record fails to clearly teach or fairly suggest the combination of the following limitations, as recited in independent claim 1 (and similarly recited in independent claims 28 and 55):

> a function block for use in adding additional functionality to a third party superblock application that has its own functionality and display window, wherein the function block is configured to be compiled into the superblock application and is configured to add the additional functionality to provide the real-time communication session using one or more servers connected over the internet, and wherein the function block is configured to interact with the superblock application through one or more application programming interface (API) calls.

Other References Cited Not Relied Upon

5. **Kabbani et al.** (**US 8,246,760**) discloses superblocks of a network may be added and removed without adding switches to the network, but does not expressly disclose establishing audio video service between the superblock and the resource using a network interface.

6. **Kulkarni et al.** (**US 2011/0225359**) discloses a distributed networked storage system that enables server for superblock size and parity to be used without introducing the possibility of a double error on the same superblock but does not expressly disclose establishing audio video service between the superblock and the resource using a network interface.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CRAIG C DORAIS whose telephone number is (571)270-3371. The examiner can normally be reached M-F 9:00 am - 6:00pm.

8. Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

9. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Young can be reached on 571-270-3180. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

10. Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: https://patentcenter.uspto.gov. Visit https://www.uspto.gov/patents/apply/patent-center for more information about Patent Center and https://www.uspto.gov/patents/docx for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CRAIG C DORAIS/
Primary Examiner, Art Unit 2194

Examiner-Initiated Interview Summary	**Application No.** 18/432,148	**Applicant(s)** CHATURVEDI et al.		
	Examiner CRAIG C DORAIS	**Art Unit** 2194	**AIA (First Inventor to File) Status** Yes	**Page** 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	**Title**	**Type**
CRAIG C DORAIS	Primary Examiner	Telephonic
KEITH D HARDEN	Attorney of Record	

Date of Interview: 12 February 2025

Issues Discussed:

Non-statutory Double Patenting

Discussed filing a terminal disclaimer over prior applications in the family to place the application in a condition for allowance. This was agreed to and the TD was filed and approved on 02/13/2025

/CRAIG C DORAIS/ Primary Examiner, Art Unit 2194	

Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04
Please further see:
MPEP 713.04
Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b)
37 CFR § 1.2 Business to be transacted in writing

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

Notice of References Cited	Application/Control No. 18/432,148	Applicant(s)/Patent Under Reexamination CHATURVEDI et al.	
	Examiner CRAIG C DORAIS	Art Unit 2194	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-9246760-B1	2016-01-26	Kabbani; Abdul	H04L41/0896	1/1
*	B	US-20110225359-A1	2011-09-15	Kulkarni; Aditya Rajeev	G06F3/0683	711/E12.001
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

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

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/432,148	CHATURVEDI et al.
	Examiner	**Art Unit**
	CRAIG C DORAIS	2194

CPC						
Symbol					**Type**	**Version**
H04W	/	12	/	08	F	2013-01-01
G06F	/	9	/	54	I	2013-01-01
G06F	/	9	/	542	I	2013-01-01
G06F	/	9	/	541	I	2013-01-01
H04N	/	7	/	141	I	2013-01-01
H04L	/	65	/	1069	I	2013-01-01
H04L	/	65	/	1089	I	2013-01-01
G06F	/	9	/	44526	I	2013-01-01
H04M	/	1	/	724	I	2021-01-01
H04L	/	67	/	60	I	2022-05-01
G06F	/	15	/	167	I	2013-01-01
H04L	/	67	/	10	I	2013-01-01
G06F	/	21	/	00	I	2013-01-01
H04L	/	41	/	20	I	2013-01-01
H04L	/	41	/	28	I	2013-01-01
H04L	/	65	/	60	I	2013-01-01
H04L	/	63	/	0457	A	2013-01-01
H04N	/	2007	/	145	A	2013-01-01

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	55	
/CRAIG C DORAIS/ Primary Examiner, Art Unit 2194	18 February 2025	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	28	10

U.S. Patent and Trademark Office — Part of Paper No.: 20250218

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/432,148	CHATURVEDI et al.
	Examiner	**Art Unit**
	CRAIG C DORAIS	2194

INTERNATIONAL CLASSIFICATION				
CLAIMED				
G06F	/	9	/	54

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 55	
/CRAIG C DORAIS/ Primary Examiner, Art Unit 2194 (Primary Examiner)	18 February 2025 (Date)	O.G. Print Claim(s) 28	O.G. Print Figure 10

U.S. Patent and Trademark Office — Part of Paper No.: 20250218

Ex.1002 / Page 25 of 599
Cisco Systems, Inc.

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/432,148	CHATURVEDI et al.
	Examiner	**Art Unit**
	CRAIG C DORAIS	2194

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

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		10		19		28		37		46		55		
	2		11		20		29		38		47				
	3		12		21		30		39		48				
	4		13		22		31		40		49				
	5		14		23		32		41		50				
	6		15		24		33		42		51				
	7		16		25		34		43		52				
	8		17		26		35		44		53				
	9		18		27		36		45		54				

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	55	
/CRAIG C DORAIS/ Primary Examiner, Art Unit 2194	18 February 2025	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	28	10

U.S. Patent and Trademark Office — Part of Paper No.: 20250218

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/432,148	CHATURVEDI et al.
	Examiner	Art Unit
	CRAIG C DORAIS	2194

CPC - Searched*		
Symbol	Date	Examiner

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Refreshed parent search. New keyword and CPC and keyword searches. Scholar searches. See attached.	08/23/2024	CD
Refreshed previous search. New keyword and CPC and keyword searches. New Scholar searches. See attached.	02/18/2025	CD

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	Keyword search as per MPEP 1302.08. See attached.	02/18/2025	CD

/CRAIG C DORAIS/ Primary Examiner, Art Unit 2194	

The **superblock**: An effective technique for VLIW and superscalar compilation

WMW Hwu, SA Mahlke, WY Chen, PP Chang... - ... -Level Parallelism: A ..., 2011 - Springer

... An important **feature** of **superblock** enlarging optimizations is that ... In **Section** 4.5 we will show how the general percolation model allows the **superblock** scheduler to exploit much **more** ...

☆ Save 99 Cite Cited by 885 Related articles All 30 versions

Superblock: An **Application**-aware Dynamic Partition Strategy for Large-Scale Graph

J Zhang, F Dong, D Shen, J Jin ... - 2015 Third International ..., 2015 - ieeexplore.ieee.org

... to reconstruct the **Superblock** according to **application features**. This result confirms that ... system which supports **Superblock** partition strategy and **other** commonly adopted strategies. ...

☆ Save 99 Cite Cited by 1 Related articles »

Open Data Platform Tools for Energy Service Ecosystem in Urban Superblocks

M Filppula, P Kannisto ... - 2023 IEEE 21st ..., 2023 - ieeexplore.ieee.org

... to **third party** developers to create new **applications** to utilize ... The core concept in this paper is the so called "**superblock**". ... since none of the **more** quantitative **features**, such as scalability ...

☆ Save 99 Cite Related articles All 5 versions

Learning heuristics for the **superblock** instruction scheduling problem

T Russell, AM Malik, M Chase... - IEEE Transactions on ..., 2009 - ieeexplore.ieee.org

... **Third**, they improved the quality of the training data by ... Again, as with **other superblock features**, we extend the ... Our helped cost **feature uses** a slightly restricted version of the branch ...

☆ Save 99 Cite Cited by 16 Related articles All 13 versions

Formally verified **superblock** scheduling

C Six, L Gourdin, S Boulmé, D Monniaux, ... - Proceedings of the 11th ..., 2022 - dl.acm.org

... If one instruction computes a register and the next instruction **uses** ... general format (with **added functionality**, such as operand ... We observe an improvement of 4% on the **third** quartile. ...

☆ Save 99 Cite Cited by 15 Related articles All 7 versions »

Urban planning paradoxes and sociospatial fragmentation: The **Superblock** Barcelona Case (2016–2023)

L Frago, A Morcuende - International Journal of Urban and ..., 2024 - Wiley Online Library

... **more** local and need to be able to offer all the city **functions** at ... Barcelona project had to be adapted for **uses** that were not ... The **third** paradox, which stems from the **other** two, points ...

☆ Save 99 Cite Related articles All 3 versions »

Stakeholders' Interests in Developing an Energy Ecosystem for the **Superblock**—Case Hiedanranta

T Joensuu, M Norvasuo, H Edelman - Sustainability, 2019 - mdpi.com

... of **superblock applications** may be **more** dependent on **other** ... **Third**, the entries in each column were divided into three ... different **functions**, and how to organize the planning systems if a ...

☆ Save 99 Cite Cited by 11 Related articles All 9 versions »

Data transfer 7. STORM requests a read of the file system **superblock**. 8. Data is returned. 9. STORM requests a read of the block containing the file system ...

TGS Kerb - Fifth NASA Goddard Conference on Mass Storage ..., 1996 - books.google.com

... , an **application** that opens many small files), a normal file system RPC is likely to be **more** ... of its own capabilities (including management **functions**) to its children when creating DVDs, ...

☆ Save 99 Cite Related articles

Supergrid and **superblock**: a system for global consideration

X Chen - Supergrid and Superblock, 2022 - taylorfrancis.com

... Japanese **superblock** structure shows some positive **features** ... 's relatively recent **application** of a **superblock** structure in a ... opportunity for **further** subdivision of the **superblock**. Internal ...

☆ Save 99 Cite Cited by 1 Related articles »

An **application** of constraint programming to **superblock** instruction scheduling

AM Malik, M Chase, T Russell, P Van Beek - Principles and Practice of ... , 2008 - Springer

... **superblock** instruction scheduling problem, the problem that we address in this paper (for **more** ... approaches to realistic architectures and cost **functions**. In our constraint programming ap...

☆ Save 99 Cite Cited by 19 Related articles All 11 versions »

A novel NVM memory file system for edge intelligence

J Lu, X Chen, S Li, X Qian, A Yuemaier... - IEICE Electronics ..., 2022 - jstage.jst.go.jp

... system can provide local computing **capability** by adding a co-... the **application** of NVM in edge computing can **further** reduce ... will be transferred to the **superblock** for storage when IMPFS ...

☆ Save 99 Cite Cited by 3 Related articles All 5 versions »

Using profile information to assist advanced compiler optimization and scheduling

W Chen, R Bringmann, S Mahlke, S Anik... - ... and Compilers for ..., 1993 - Springer

... for exposing and exploiting ILP in general purpose **applications**. The use of control-flow ... **superblock** when there are **more** instructions to choose from. An important **feature** of **superblock** ...

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A VLIW low power Java processor for embedded **applications**

ACS Beck, L Carro - Proceedings of the 17th symposium on integrated ..., 2004 - dl.acm.org

... systems, which are offering **more** and **more functions** to the user, ... **more** sophisticated techniques, like software pipelining and **superblock**, to expose the parallelism of the **applications**. ...

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SecureFS: A secure file system for Intel SGX

S Kumar, SR Sarangi - Proceedings of the 24th International Symposium ..., 2021 - dl.acm.org

... limitations of a secure **application**'s **functionality**, such as no ... we characterize relevant **applications** in **Section** 4 and obtain ... the **superblock**, and write encrypted chunks of the **superblock** ...

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Applications of Rapid Prototyping to the design and testing of UAV Flight Control System

JA Komlosy III - 1998 - core.ac.uk

... SystemBuild (Figure 4) utilizes a hierarchical "**SuperBlock**" ... the **capability** to sample and transmit five **additional** channels ... download **functions** of the system as described in **Section** A of ...

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Magnas: A mapping-aware graph neural architecture search framework for heterogeneous mpsoc deployment

M Odema, H Bouzidi, H Ouarnoughi, S Niar... - ACM Transactions on ..., 2023 - dl.acm.org

... , the **application** of GNNs has been **further** studied for **more** ... of **features** from farther nodes with each **superblock**. To ... , we transform each ViG **superblock** into a slimmable neural network ...

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Riyadh development plans in the past fifty years (1967-2016)

S Al-Hathloul - Current Urban Studies, 2017 - scirp.org

... to the mid 1960's; the **third** covers the Doxaidis master plan in ... the residential and **other functions** it will serve are growing... ... roads defining the **superblock** to have commercial **uses**. This ...

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Urban Governance in Post-pandemic Barcelona: A **Superblock**-Based New Normal?

F Camerin - The 'New Normal'in Planning, Governance and ..., 2023 - Springer

... during the pandemic toward a **more** human-centered approach, ... the **features** describing the implementation of Barcelona's ... has acted as an accelerator for the **application** of pre-existing ...

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The development of habitable urban skyways: claiming interstitial territories through evolutionary processes

L Blewett, NXH Nguyen, M Makki… - City, Territory and … , 2023 - Springer

… and critical study of their **applications** in different locales. Its … range of **functions** and **more** connections to multiple blocks. … expanded in size across the **superblock**, creating blocks with …

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Overview of RCAS and **application** to advanced rotorcraft problems

H Saberi, M Khoshlahjeh, RA Ormiston … - … helicopter society 4th … , 2004 - researchgate.net

… Elements are grouped together to form a **superblock**. … control system **functions** and a collection of general mathematical **functions**. This **section** addresses the **more** conventional physical …

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Finding and fixing performance pathologies in persistent memory software stacks

J Xu, J Kim, A Memaripour, S Swanson - Proceedings of the Twenty ... , 2019 - dl.acm.org

... **Section** 3 evaluates **applications** on NVMM and recounts the ... takes a spinlock to **add** the new inode to the **superblock**'s inode ... We have **added** NUMA-aware **features** to NOVA to under...

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Amazon Redshift re-invented

N Armenatzoglou, S Basu, N Bhanoori, M Cai... - Proceedings of the ... , 2022 - dl.acm.org

... For all **other uses**, contact the owner/author(s). SIGMOD '22, June 12–17, 2022, ... **features** access transactionally consistent data by applying the log onto their local **superblock**...

☆ Save 99 Cite Cited by 89 Related articles All 7 versions

Study of pedestrian zone according to **superblock** criteria in the Casco Antiguo of Panama

H Caballero, L Hidalgo, J Quijada-Alarcon - Sustainability, 2022 - mdpi.com

... In any case, vehicles are a fundamental piece in the **functionality** ... In **addition** to the reconfiguration of transport and the ... model of a **superblock** is the main solution for the **application** ...

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Syntactic Stitching II: Testing the rationalisation of the urban fabric as an intervention method in Cairo, Egypt

E Zied Abozied, A Vialard, R Dalton - 2019 - nrl.northumbria.ac.uk

... From space syntax, the concept of a **superblock**, super grid and ... and streets, this study **uses** various principles on how a ... their potential for amenities and **other functions**. The square ...

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Parallelization of microscopic traffic simulation for ATT systems analysis

J Barceló, JL Ferrer, D García, M Florian... - Equilibrium and advanced ... , 1998 - Springer

... includes many new **features** that have been **added** to the program. ... **SuperBlock** activates the son threads. The Principal Thread Algorithm, which belongs to the **SuperBlock** dass, **uses** a ...

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Using Crash Hoare logic for certifying the FSCQ file system

H Chen, D Ziegler, T Chajed, A Chlipala... - Proceedings of the 25th ... , 2015 - dl.acm.org

... can help **application** developers build **applications** on top of ... , we aimed for the same **features** as the xv6 file system [16], a ... consists of first reading the **superblock** from disk to locate the ...

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Practical Mobile Forensics: Forensically investigate and analyze iOS, Android, and Windows 10 devices

R Tamma, O Skulkin, H Mahalik, S Bommisetty - 2020 - books.google.com

... **third-party applications** such as Facebook and WhatsApp. ... and bypassing the screen lock **feature** is provided in this chapter. ... A Volume **Superblock** contains the name of the volume, its ID...

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Google workloads for consumer devices: Mitigating data movement bottlenecks

A Boroumand, S Ghose, Y Kim .. - ... of the Twenty-Third ... , 2018 - dl.acm.org

... We find that across all of the **applications** we study, 62.7% of ... However, we find that there are two **other functions** that ... pixels in each 64x64-pixel **superblock**, to remove blocking artifacts. ...

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Oblivisync: Practical oblivious file backup and synchronization

AJ Aviv, SG Choi, T Mayberry, DS Roche - arXiv preprint arXiv:1605.09779, 2016 - arxiv.org

... We show that our system **functions** under high work loads, ... Our ObliviSync system **uses** the idea of writeonly ORAM on ... chosen backend files and the **superblock**, so that we must have (k ...

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I spy with my little eye: Analysis and detection of spying browser extensions

A Aggarwal, B Viswanath, L Zhang .. - 2018 IEEE European .. , 2018 - ieeexplore.ieee.org

... to a **third-party** domain, when the claimed **functionality** of the extension ... We investigate this **further** in the next **section**. ... , we modify the Chrome **Apps** and Extension Developer Tool which ...

☆ Save 99 Cite Cited by 32 Related articles All 9 versions

Secure and flexible monitoring of virtual machines

BD Payne, DPA Martim, W Lee - ... Security Applications ..., 2007 - ieeexplore.ieee.org

... and this **functionality** could be **added** to **other** VMMs using a small amount of **additional** code... metadata contained in the filesystems's **superblock** and the group descriptors. It gathers all ...

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Reducing floating point error in dot product using the **superblock** family of algorithms

AM Castaldo, RC Whaley, AT Chronopoulos - SIAM journal on scientific ..., 2009 - SIAM

... and **more** general framework that we have named **superblock** ... [31, 30] project, which **uses** GEMM as the building block of its ... We emphasize that this is a **feature** of our vector generation, ...

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Superblock FTL: A **superblock**-based flash translation layer with a hybrid address translation scheme

D Jung, JUK Kang, H Jo, JS Kim, J Lee - ACM Transactions on ..., 2010 - dl.acm.org

... The main goal of FTL is to emulate the **functionality** of a normal ... **more** than one U-block to each **superblock**, hoping that the ... **Superblock** FTL even **uses** the cache to accelerate accesses ...

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Superblocks for the design of new cities and renovation of existing ones: Barcelona's case

S Rueda - Integrating human health into urban and transport ..., 2019 - Springer

... the proximity between the urban **uses** and **functions**. The way of ... , specifically Eixample, the **more** complex **part** of the city. ... In this **section**, we will focus on the **superblock** as the basis of a ...

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Generating Usable and Assessable Datasets Containing Anti-Forensic Traces at the Filesystem Level

T Göbel, H Baier, J Türr - IFIP International Conference on Digital ..., 2024 - Springer

... **superblock** is usually empty, it could be paired with **another** ... One **uses** nanosecond locations in the inode tables to hide ... be interpreted and **added** to all the necessary **functions**. This ...

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Static strands: safely collapsing dependence chains for increasing embedded power efficiency

PG Sassone, DS Wills, GH Loh - ... of the 2005 ACM SIGPLAN/SIGBED ..., 2005 - dl.acm.org

... We start at the top of each **superblock** and, for each instruction... This approach provides **additional functionality** to modern ... which **uses** the **additional** information embedded in the new ...

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The **superblock** approach for the analytic element method

ODL Strack, I Janković, R Barnes - Journal of Hydrology, 1999 - Elsevier

... The latter two **applications** of the **superblock** approach are quite different from each **other**; we will ... We present the **superblock** approach only for those **functions** in an analytic element ...

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Deprioritising cars beyond rerouting: Future research directions of the Barcelona **Superblock**

S Eggimann - Cities, 2025 - Elsevier

... be **more** ... **Superblock** is an urban design concept that seeks to bring about a sustainability transition not only in re-arranging routes for cars but also in assigning space to alternative **uses**...

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Advancing residents' use of shared spaces in Nordic superblocks with intelligent technologies

J Makkonen, R Latikka, L Kaukonen, M Laine… - AI & society, 2023 - Springer

… -based **applications** that involve some forms of Artificial Intelligence (AI) in their **functionality**. … As a continuity to the research on the Nordic **superblock**, our research sheds light on the …

☆ Save 99 Cite Cited by 9 Related articles All 11 versions »

Optimal **superblock** scheduling using enumeration

G Shobaki, K Wilken - 37th International Symposium on …, 2004 - ieeexplore.ieee.org

… Figure 2 shows the **application** of two fast heuristics to the … **feature** plays a key role in the proposed optimal **superblock** … but with the **additional** powerful **feature** of backtracking when it …

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An experimental study on memory allocators in multicore and multithreaded **applications**

TB Ferreira, R Matias, A Macedo... - ... , **Applications** and ..., 2011 - ieeexplore.ieee.org

... Unlike **other** related works, we assess the selected memory ... for memory slices in this **superblock**. A thread can be ... [10], and also incorporates **features** aimed at multiprocessors running ...

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Privacy preserving anti-forensic techniques

MA Wani - ... : Algorithm Development, Analysis and **Applications**, 2021 - Springer

... sold user data to **third-party** organizations, government and ... Reserved locations is **another** file system **feature** that promise ... within the **Superblock** data structure of B-tree file system. In ...

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An analysis of Ext4 for digital forensics

KD Fairbanks - Digital investigation, 2012 - Elsevier

... This paper provides a **more** comprehensive analysis with the ... **uses** is probably one of the most important: the **superblock**. ... With the sparse **superblock feature** being enabled by default, ...

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Hardware-based profiling: An effective technique for profile-driven optimization

TM Conte, BA Patel, KN Menezes, JS Cox - International Journal of ..., 1996 - Springer

... larger block structures are where **superblock** formation gets its name... a **third**, hardware-based profiling approach that **uses** the ... of list scheduling or **other** local scheduling techniques. (24) ...

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IMPACT: An architectural framework for multiple-instruction-issue processors

PP Chang, SA Mahlke, WY Chen, NJ Warter... - ACM SIGARCH ... , 1991 - dl.acm.org

... fee all or **part** of this material]s granted provided that the copies are not made or distributed ... the need for **more** aggressive ... are scheduled within a **superblock** ...

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Moving side-exits despite code duplications for better **Superblock** scheduling in COMPCERT

A Bérard - Master Internship Report. Université Grenoble Alpes, 2022 - www-verimag.imag.fr

... version, which adds several **other features** (backend for the ... If-lifting **uses** the new schedule method, Unroll+Rotate **uses** ... but it is even **more** recurrent for the **third** quartile (with notably ...

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Multiconfiguration self-consistent field and multireference configuration interaction methods and **applications**

PG Szalay, T Muller, G Gidofalvi, H Lischka... - Chemical ..., 2012 - ACS Publications

... One important **application** of this **feature** is the computation of ... algorithms along with several **other features** of Davidson ... few eigenpairs of the **superblock** Hamiltonian are computed ...

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Merging green and active transportation infrastructure towards an equitable accessibility to green areas: Barcelona green axes

F Magrinyà, J Mercadé-Aloy, B Ruiz-Apilánez - Land, 2023 - mdpi.com

... semi-natural areas with **other** environmental **features** designed and ... capital are **part** of the new Barcelona **Superblock** strategy ... with the **uses** of the buildings on the first floor (Figure 12). ...

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Purple dawn: Dead disk forensics on Google's Fuchsia operating system

M Jarrett, S Morris - Forensic Science International: Digital Investigation, 2021 - Elsevier

... storage and was **more** focused on the security **features** of the ... to the same **section** as stated within the **superblock**. Similarly, ... blobs to verify installed **applications** and/or **other** software. ...

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Designing walkable cities and neighborhoods in the era of urban big data

C Guan, M Keith, A Hong - Urban Planning International, 2020 - ora.ox.ac.uk

... the spatial and urban design **features** of a walkable city. The first ... We discuss the **application** of urban big data enabled by ... The layout of **superblock** is essentially irregular shaped blocks ...

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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
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L5	268	("20030187650"|"20040 024879"|"20040068567 "|"20040203834"|"2004 0240399"|"2005007148 1"|"20050143105"|"200 50246193"|"200600023 55"|"20060069775"|"20 060203750"|"20070025 270"|"20070190987"|"2 0070260359"|"2008012 3685"|"20080250408"|" 20100077023"|"696355 5"|"6975718"|"7006508" |"7013155"|"7564843"|" 7782866"|"2004010097 3"|"20040158471"|"200 40162871"|"200402282 79"|"20040267938"|"20 050008024"|"20050286 519"|"20080192756"|"6 766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/13 11:26 AM

		6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20 020178087"|"20030220 121"|"20050086309"|"2 0050138119"|"2006014 8516"|"5790637"|"6473 425").PN.					
L6	98	CHATURVEDI- SIVAKUMAR-$.in. CHATURVEDI- SIVAKUMAR.in. GUNDABATHULA- SATISH.in. GUNDABATHULA- SATISH-$.in. HIREMATH- RASHMI.in. HIREMATH-RASHMI- $.in.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2015/03/13 12:02 PM
L7	8533	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/03/13 03:56 PM
L8	9338	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/03/13 03:59 PM
L9	1053	plug-in AND	(US-PGPUB; USPAT;	OR	OFF	OFF	2015/03/13

		(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	EPO; JPO; DERWENT; IBM_TDB)				04:14 PM
L10	60	L8 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/03/13 04:21 PM
L11	9338	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/03/13 04:50 PM
L12	60	L11 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/03/13 04:50 PM
L13	6	L11 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/13 04:50 PM

		ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911" NOT L12					
L14	34	L11 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L12	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/13 04:58 PM
L15	9352	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/03/14 10:41 AM
L16	60	L15 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/03/14 10:41 AM

		determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"					
L17	5569	((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L16	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/14 10:41 AM
L18	1248	((window screen pane image display) WITH (plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension)) AND((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/14 10:44 AM

		allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L16					
L19	6	L15 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911" NOT L16	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/14 10:47 AM
L20	34	L15 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L16	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/14 10:47 AM
L22	125	((window screen pane image display) WITH (plug-in plugin plug ADJ	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/14 10:57 AM

		in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L16					
L23	126	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/14 11:20 AM

		authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L16					
L24	1	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L16 L19 L20 L22)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/14 11:21 AM
L25	2	((window screen pane image display) WITH (((function program application app sub) NEAR2 (block section segment)) plug-in plugin plug ADJ in addon add-on add ADJ	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/14 11:24 AM

		on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L16 L19 L20 L22 L23)					
L26	876	G06F9/44526.cpc. AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/03/14 11:27 AM
L27	37	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"2003	(USPAT; USOCR)	OR	ON	ON	2015/03/14 11:29 AM

		0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184					

		310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L28	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050	(USPAT; USOCR)	OR	ON	ON	2015/03/14 11:29 AM

		144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L29	304	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/14 11:29 AM

		304985"|"20020037000 "|"20020064167"|"2003 0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568					

		70"|"20020087887"|"20020120757"|"20020184310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L30	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"200401	(USPAT; USOCR)	OR	ON	ON	2015/03/14 11:29 AM

		48434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.				
L31	268	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/14 11:29 AM

		050008024"|"20050286 519"|"20080192756"|"6 766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7					

		123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L32	375	L26 AND (mobile cell cellular phone iphone) NOT (L16 L19 L20 L22 L24 L25 L27 L28 L29 L30 L31)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/03/14 11:29 AM
L36	10617	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/12/30 09:19 AM
L37	66	L36 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/12/30 09:19 AM
L38	66	L37	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 09:19 AM
L39	6	L36 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/12/30 09:24 AM

		allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911" NOT L37					
L40	6	L39	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 09:24 AM
L41	37	L36 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L37	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/12/30 09:25 AM
L42	37	L41	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 09:25 AM
L43	132	((window screen pane image display) WITH (plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/12/30 09:29 AM

		determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L37					
L44	132	L43	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 09:29 AM
L45	1	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L37 L39 L41 L43)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/12/30 09:30 AM
L46	1	L45	(US-PGPUB; USPAT; EPO; JPO;	OR	ON	ON	2015/12/30 09:30 AM

			DERWENT)				
L47	133	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L37	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/12/30 09:31 AM
L48	3	((window screen pane image display) WITH (((function program application app sub) NEAR2 (block section segment)) plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/12/30 09:31 AM

		add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L37 L39 L41 L43 L47)					
L49	3	L48	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 09:31 AM
L50	266	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"766	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/12/30 09:33 AM

		4495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.				
L51	266	L50	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 09:33 AM
L52	1021	G06F9/44526.cpc. AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/12/30 09:58 AM
L53	37	("20010050923"|"20020143548"|"20020156844	(USPAT; USOCR)	OR	ON	ON	2015/12/30 09:58 AM

		"|"20030202480"|"2004 0034776"|"2004010321 2"|"20050130650"|"200 50132009"|"200501984 99"|"20050201485"|"20 060168643"|"20060258 289"|"20070136459"|"2 0070165629"|"2007020 6563"|"20070297430"|" 20080273541"|"200900 52399"|"20090240821"| "20090327516"|"20110 122864"|"20110314134 "|"6128283"|"7079529"|" 7092385"|"7487248"|"7 623476"|"20030177422 "|"20050033985"|"2005 0091407"|"6850769"|"7 304985"|"20020037000 "|"20020064167"|"2003 0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20				

		020042769"|"20020124096"|"20030009565"|"20030043764"|"20030105812"|"20040128554"|"20050004982"|"20050120073"|"20050220017"|"20060062180"|"20060182100"|"20060205436"|"20070019545"|"20080091813"|"20080130639"|"20090003322"|"20090156217"|"20090234967"|"20090257433"|"20100011108"|"20100011111"|"20100279670"|"20100299150"|"20100299313"|"7346044"|"7353252"|"7574523"|"7656870"|"20020087887"|"20020120757"|"20020184310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L54	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"	(USPAT; USOCR)	OR	ON	ON	2015/12/30 09:58 AM

		20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20 020178087"|"20030220 121"|"20050086309"|"2 0050138119"|"2006014 8516"|"5790637"|"6473 425").PN.					

L55	300	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"20030110047"|"20030172145"|"20030214955"|"20040139230"|"20040153858"|"20040268257"|"20050136911"|"20050138128"|"20060072506"|"20060120375"|"20070082671"|"20070130253"|"20110145687"|"6219638"|"6754181"|"6999575"|"7185114"|"7590758"|"7623516"|"7774495"|"20030035441"|"20030076815"|"20030217171"|"20040260952"|"20050050227"|"5442637"|"5889762"|"6343067"|"7080158"|"20020031212"|"20020062285"|"20030046585"|"20040052234"|"20040139228"|"20040267527"|"20050187781"|"20060121902"|"20060171534"|"20060187926"|"20070253435"|"20080032695"|"20080168440"|"20090055473"|"20100049980"|"20100107205"|"20100312897"|"20110099612"|"20120263144"|"6141687"|"6898413"|"7010109"|"7345999"|"7457279"|"7542472"|"7570743"|"8065418"|"20020080719"|"20020176404"|"20030031210"|	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/12/30 09:58 AM

		"20030115251"|"20070016921"|"6836765"|"20020042769"|"20020124096"|"20030009565"|"20030043764"|"20030105812"|"20040128554"|"20050004982"|"20050120073"|"20050220017"|"20060062180"|"20060182100"|"20060205436"|"20070019545"|"20080091813"|"20080130639"|"20090003322"|"20090156217"|"20090234967"|"20090257433"|"20100011108"|"20100011111"|"20100279670"|"20100299150"|"20100299313"|"7346044"|"7353252"|"7574523"|"7656870"|"20020087887"|"20020120757"|"20020184310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L56	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"2	(USPAT; USOCR)	OR	ON	ON	2015/12/30 09:58 AM

		0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20 020178087"|"20030220 121"|"20050086309"|"2 0050138119"|"2006014 8516"|"5790637"|"6473					

		425").PN.					
L57	438	L52 AND (mobile cell cellular phone iphone) NOT (L37 L39 L41 L43 L45 L48 L53 L54 L55 L56 L50)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/12/30 09:58 AM
L58	438	L57	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 09:58 AM
L59	0	L36 AND without NEAR5 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 10:19 AM
L60	273	without WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 10:20 AM
L61	201	(instead place missing skipping) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 10:40 AM

		super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block) AND @ad<"20130911"					
L62	52840	(without instead place missing skipping) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 10:58 AM
L63	39452	(without) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 10:58 AM
L64	12	(without) NEAR2 (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 10:59 AM
L65	39	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 11:02 AM

		swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61)					
L66	27	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61 L64)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 11:02 AM
L67	5	(without instead place missing skipping) WITH (context NEAR3 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61 L64 L66)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 11:08 AM
L68	29	(without instead place missing skipping) WITH (context NEAR5 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61 L64 L66 L67)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 11:16 AM
L69	109	CHATURVEDI-	(US-PGPUB; USPAT)	OR	ON	ON	2015/12/30

		SIVAKUMAR.in. GUNDABATHULA-SATISH.in. HIREMATH-RASHMI.in. CHATURVEDI-SIVAKUMAR-$.in. GUNDABATHULA-SATISH-$.in. HIREMATH-RASHMI-$.in.					01:08 PM
L70	4	without ADJ switching NEAR3 context WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/03 11:20 AM
L71	3	establishing WITH function WITH block WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/03 11:21 AM
L72	11000	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/06/03 04:19 PM
L73	67	L72 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/06/03 04:19 PM
L74	67	L73	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:19 PM
L75	67	L74	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:19 PM
L76	6	L72 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:19 PM

		verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911" NOT L73					
L77	6	L76	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:19 PM
L78	6	L77	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:19 PM
L79	37	L72 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L73	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:20 PM
L80	37	L79	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:20 PM
L81	37	L80	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:20 PM
L82	133	((window screen pane image display) WITH (plug-in plugin plug ADJ in addon add-on add	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:20 PM

		ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L73					
L83	133	L82	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:20 PM
L84	133	L83	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:20 PM
L85	1	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:21 PM

		checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L73 L76 L79 L82)					
L86	1	L85	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:21 PM
L87	1	L86	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:21 PM
L88	134	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:23 PM

		clearence)) AND @ad<"20130911" NOT L73					
L89	3	((window screen pane image display) WITH (((function program application app sub) NEAR2 (block section segment)) plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L73 L76 L79 L82 L88)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:23 PM
L90	3	L89	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:23 PM
L91	3	L90	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:23 PM
L92	266	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:24 PM

		060203750"|"20070025 270"|"20070190987"|"2 0070260359"|"2008012 3685"|"20080250408"|" 20100077023"|"696355 5"|"6975718"|"7006508" |"7013155"|"7564843"|" 7782866"|"2004010097 3"|"20040158471"|"200 40162871"|"200402282 79"|"20040267938"|"20 050008024"|"20050286 519"|"20080192756"|"6 766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2					

		0030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L93	266	L92	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:24 PM
L94	266	L93	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:24 PM
L95	1065	G06F9/44526.cpc. AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/06/03 04:25 PM
L96	37	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"20030110047"|"20030172145"|"20030214955"|"20040139230"|"20040153858"|"20040268257"|"20050136911"|"20050138128"|"20060072506"|"20060120375"|"20070082671"|"20070130253"|"	(USPAT; USOCR)	OR	ON	ON	2016/06/03 04:25 PM

		20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003 4793"|"20050195802"|" 20070110043"|"200803 20096"|"6987756"|"718 4415"|"7272377"|"7412 374"|"7477282"|"75126 52"|"20020097150"|"20					

		020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L97	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"62020	(USPAT; USOCR)	OR	ON	ON	2016/06/03 04:25 PM

		84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20 020178087"|"20030220 121"|"20050086309"|"2 0050138119"|"2006014 8516"|"5790637"|"6473 425").PN.					
L98	301	("20010050923"|"20020 143548"|"20020156844 "|"20030202480"|"2004 0034776"|"2004010321 2"|"20050130650"|"200 50132009"|"200501984 99"|"20050201485"|"20 060168643"|"20060258 289"|"20070136459"|"2 0070165629"|"2007020 6563"|"20070297430"|" 20080273541"|"200900 52399"|"20090240821"| "20090327516"|"20110 122864"|"20110314134 "|"6128283"|"7079529"|" 7092385"|"7487248"|"7 623476"|"20030177422 "|"20050033985"|"2005 0091407"|"6850769"|"7 304985"|"20020037000 "|"20020064167"|"2003 0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:25 PM

		0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003 4793"|"20050195802"|" 20070110043"|"200803 20096"|"6987756"|"718 4415"|"7272377"|"7412					

		374"|"7477282"|"75126 52"|"20020097150"|"20 020152325"|"20030088 676"|"20030126213"|"2 0030158722"|"2003016 3525").PN.					
L99	36	("20030187650"|"20040 024879"|"20040068567 "|"20040203834"|"2004 0240399"|"2005007148 1"|"20050143105"|"200 50246193"|"200600023 55"|"20060069775"|"20 060203750"|"20070025 270"|"20070190987"|"2 0070260359"|"2008012 3685"|"20080250408"|" 20100077023"|"696355 5"|"6975718"|"7006508" |"7013155"|"7564843"|" 7782866"|"2004010097 3"|"20040158471"|"200 40162871"|"200402282 79"|"20040267938"|"20 050008024"|"20050286 519"|"20080192756"|"6 766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20	(USPAT; USOCR)	OR	ON	ON	2016/06/03 04:25 PM

		100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L100	462	L95 AND (mobile cell cellular phone iphone) NOT (L73 L76 L79 L82 L85 L89 L96 L97 L98 L99 L92)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/06/03 04:25 PM
L101	462	L100	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:25 PM
L102	462	L101	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:25 PM
L103	0	L72 AND without NEAR5 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:27 PM

		program-block program ADJ block application ADJ block appblock app-block application-block)					
L104	0	L103	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:27 PM
L105	285	without WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:28 PM
L106	285	L105	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:28 PM
L107	203	(instead place missing skipping) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:29 PM
L108	203	L107	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:29 PM
L109	12	(without) NEAR2 (context NEAR1 (switch switches switching switched swap swaps	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:31 PM

		swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L105 L107)					
L110	12	L109	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:31 PM
L111	40	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L105 L107)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:31 PM
L112	40	L111	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:31 PM
L113	28	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L105 L107 L109)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:34 PM
L114	28	L113	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:34 PM
L115	5	(without instead place missing skipping) WITH (context NEAR3 (switch switches switching switched swap swaps swapping swapped change changes	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:34 PM

		changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L105 L107 L109 L113)					
L116	5	L115	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:34 PM
L117	29	(without instead place missing skipping) WITH (context NEAR5 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L105 L107 L109 L113 L115)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:35 PM
L118	29	L117	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:35 PM
L119	119	CHATURVEDI-SIVAKUMAR.in. GUNDABATHULA-SATISH.in. HIREMATH-RASHMI.in. CHATURVEDI-SIVAKUMAR-$.in. GUNDABATHULA-SATISH-$.in. HIREMATH-RASHMI-$.in.	(US-PGPUB; USPAT)	OR	ON	ON	2016/06/03 04:38 PM
L120	119	L119	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:38 PM
L121	5	without ADJ switching NEAR3 context WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:39 PM
L122	5	L121	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:39 PM
L123	4	establishing WITH function WITH block WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:39 PM
L124	4	L123	(US-PGPUB; USPAT;	OR	ON	ON	2016/06/03

			EPO; JPO; DERWENT; IBM_TDB)				04:39 PM
L128	11491	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/12/20 10:19 AM
L129	67	L128 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/12/20 10:19 AM
L130	67	L129	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:19 AM
L131	67	L130	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:19 AM
L132	67	L131	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:19 AM
L133	7	L128 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:20 AM

		ok-ed ok-ing)) AND @ad<"20130911" NOT L129					
L134	7	L133	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:20 AM
L135	7	L134	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:20 AM
L136	7	L135	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:20 AM
L137	39	L128 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L129	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:26 AM
L138	39	L137	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:26 AM
L139	39	L138	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:26 AM
L140	39	L139	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:26 AM
L141	135	((window screen pane image display) WITH (plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:27 AM

		simultaneous)) AND((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L129					
L142	135	L141	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:27 AM
L143	135	L142	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:27 AM
L144	135	L143	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:27 AM
L145	1	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:28 AM

		determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L129 L133 L137 L141)					
L146	1	L145	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:28 AM
L147	1	L146	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:28 AM
L148	1	L147	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:28 AM
L149	136	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:29 AM

		ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L129					
L150	3	((window screen pane image display) WITH (((function program application app sub) NEAR2 (block section segment)) plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L129 L133 L137 L141 L149)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:29 AM
L151	3	L150	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:29 AM
L152	3	L151	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:29 AM
L153	3	L152	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:29 AM
L154	268	("20030187650"|"20040	(US-PGPUB; USPAT;	OR	ON	ON	2016/12/20

		024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"2004010097 3"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6	USOCR; EPO; JPO; DERWENT; IBM_TDB)				10:31 AM

		031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L155	268	L154	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:31 AM
L156	268	L155	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:31 AM
L157	268	L156	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:31 AM
L158	1107	G06F9/44526.cpc. AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/12/20 10:32 AM
L159	37	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000	(USPAT; USOCR)	OR	ON	ON	2016/12/20 10:32 AM

		"|"20020064167"|"2003 0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20					

		020120757"|"20020184310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L160	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|	(USPAT; USOCR)	OR	ON	ON	2016/12/20 10:32 AM

		"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.				
L161	301	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"2005	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:32 AM

		0091407"|"6850769"|"7 304985"|"20020037000 "|"20020064167"|"2003 0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353					

		252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003 4793"|"20050195802"|" 20070110043"|"200803 20096"|"6987756"|"718 4415"|"7272377"|"7412 374"|"7477282"|"75126 52"|"20020097150"|"20 020152325"|"20030088 676"|"20030126213"|"2 0030158722"|"2003016 3525").PN.					
L162	36	("20030187650"|"20040 024879"|"20040068567 "|"20040203834"|"2004 0240399"|"2005007148 1"|"20050143105"|"200 50246193"|"200600023 55"|"20060069775"|"20 060203750"|"20070025 270"|"20070190987"|"2 0070260359"|"2008012 3685"|"20080250408"|" 20100077023"|"696355 5"|"6975718"|"7006508" |"7013155"|"7564843"|" 7782866"|"2004010097 3"|"20040158471"|"200 40162871"|"200402282 79"|"20040267938"|"20 050008024"|"20050286 519"|"20080192756"|"6 766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|"	(USPAT; USOCR)	OR	ON	ON	2016/12/20 10:32 AM

		20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20 020178087"|"20030220 121"|"20050086309"|"2 0050138119"|"2006014 8516"|"5790637"|"6473 425").PN.				
L163	482	L158 AND (mobile cell cellular phone iphone) NOT (L129 L133 L137 L141 L145 L150 L159 L160 L161 L162 L154)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/12/20 10:32 AM
L164	482	L163	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:32 AM
L165	482	L164	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:32 AM
L166	482	L165	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:32 AM
L167	0	L128 AND without NEAR5 (switch	(US-PGPUB; USPAT; EPO; JPO;	OR	ON	ON	2016/12/20 10:49 AM

		switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	DERWENT)				
L168	0	L167	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:49 AM
L169	0	L168	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:49 AM
L170	292	without WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:49 AM
L171	292	L170	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:49 AM
L172	292	L171	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:49 AM
L173	204	(instead place missing skipping) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:50 AM

		(superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block) AND @ad<"20130911"					
L174	204	L173	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:50 AM
L175	204	L174	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:50 AM
L176	12	(without) NEAR2 (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:51 AM
L177	12	L176	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:51 AM
L178	12	L177	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:51 AM
L179	41	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:51 AM
L180	41	L179	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:51 AM

L181	41	L180	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:51 AM
L182	29	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173 L176)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:52 AM
L183	29	L182	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:52 AM
L184	29	L183	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:52 AM
L185	5	(without instead place missing skipping) WITH (context NEAR3 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173 L176 L182)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:52 AM
L186	5	L185	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:52 AM
L187	5	L186	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:52 AM
L188	7	without ADJ switching NEAR3 context WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:53 AM
L189	7	L188	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:53 AM
L190	7	L189	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:53 AM

L191	7	establishing WITH function WITH block WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:53 AM
L192	7	L191	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:53 AM
L193	7	L192	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:53 AM
L194	59	(establish establishes establishing established establishment ascertain ascertains ascertaining ascertained determine determines determining determined determination discover discovers discovering discovered discovery learn learns learning learned (find finds finding) ADJ out found certain confirm confirms confirming confirmed confirmation) WITH (lack lacks lacking lacked without) WITH (superblock super-block super ADJ block (parent child primary secondary top bottom) ADJ block) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 11:15 AM
L195	56	(establish establishes establishing established establishment ascertain ascertains ascertaining ascertained determine determines determining determined determination discover discovers discovering discovered discovery learn learns learning learned (find finds finding) ADJ out found certain confirm confirms confirming confirmed confirmation) WITH (lack lacks lacking lacked without) WITH ((parent child primary secondary top bottom) ADJ (application program app)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 11:25 AM
L196	175	(network net grid web	(US-PGPUB; USPAT;	OR	ON	ON	2016/12/20

		cloud LAN WAN) SAME ((lack lacks lacking lacked without) WITH ((master slave parent child primary secondary top bottom) ADJ (application program app))) AND @ad<"20130911" NOT (L194 L195)	EPO; JPO; DERWENT)				11:37 AM
L197	2993	(network net grid web cloud LAN WAN) SAME ((lack lacks lacking lacked without) WITH ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 12:13 PM
L198	1923	(network net grid web cloud LAN WAN) WITH ((lack lacks lacking lacked without) WITH ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 12:14 PM
L199	1003	(network net grid web cloud LAN WAN) WITH ((lack lacks lacking lacked without) NEAR5 ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 12:14 PM
L200	267	(network net grid web cloud LAN WAN) NEAR5 ((lack lacks lacking lacked without)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 12:14 PM

		NEAR3 ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR3 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)					
L201	60	("20010050923"|"20020031212"|"20020037000"|"20020038282"|"20020042769"|"20020062285"|"20020064167"|"20020080719"|"20020087887"|"20020097150"|"20020120757"|"20020124096"|"20020143548"|"20020150110"|"20020152325"|"20020156844"|"20020166053"|"20020173303"|"20020176404"|"20020178087"|"20020184310"|"20030009565"|"20030031210"|"20030035441"|"20030043764"|"20030044020"|"20030046056"|"20030046585"|"20030061025"|"20030061481"|"20030072485"|"20030076815"|"20030078858"|"20030088676"|"20030105812"|"20030110047"|"20030115251"|"20030126213"|"20030135569"|"20030137939"|"20030158722"|"20030163525"|"20030163697"|"20030172145"|"20030174707"|"20030177186"|"20030177422"|"20030187650"|"20030202480"|"20030212772"|"20030214955"|"20030217171"|"20030217318"|"20030220121"|"20030229715"|"20040005877"|"20040024879"|"20040034776"|"20040034793"|"20040039781").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/12/21 12:27 PM
L202	110	("20040044517"|"20040052234"|"20040062267"|"20040068567"|"20040100973"|"20040103212"|"20040128554"|"200	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/12/21 12:27 PM

		40133689"|"200401392 25"|"20040139228"|"20 040139230"|"20040143 678"|"20040148434"|"2 0040153858"|"2004015 8471"|"20040162871"|" 20040193599"|"200402 03834"|"20040213184"| "20040228279"|"20040 240399"|"20040249885 "|"20040249953"|"2004 0260952"|"2004026752 7"|"20040267938"|"200 40268257"|"200500049 82"|"20050008024"|"20 050015502"|"20050033 843"|"20050033985"|"2 0050050227"|"2005007 1481"|"20050086309"|" 20050091407"|"200501 05524"|"20050119005"| "20050120073"|"20050 130650"|"20050132009 "|"20050136911"|"2005 0138119"|"2005013812 8"|"20050143105"|"200 50144288"|"200501877 81"|"20050187957"|"20 050195802"|"20050198 499"|"20050201357"|"2 0050201485"|"2005020 8947"|"20050220017"|" 20050246193"|"200502 49196"|"20050254440"| "20050270992"|"20050 286519"|"20060002355 "|"20060062180"|"2006 0069775"|"2006007250 6"|"20060120375"|"200 60121902"|"200601219 86"|"20060148516"|"20 060165029"|"20060168 643"|"20060171534"|"2 0060182100"|"2006018 3476"|"20060187926"|" 20060195402"|"200602 03750"|"20060205436"| "20060218624"|"20060 230166"|"20060233117 "|"20060246903"|"2006 0258289"|"2007001692 1"|"20070019545"|"200 70025270"|"200700787 85"|"20070082671"|"20 070110043"|"20070111 794"|"20070116224"|"2 0070130253"|"2007013 6459"|"20070165629"|"					

		20070190987"|"20070206563"|"20070239892"|"20070253435"|"20070260359"|"20070274276"|"20070280253"|"20070294626"|"20070297430"|"20080005328"|"20080019285"|"20080032695"|"20080046984"|"20080069105"|"20080080392"|"20080091813"|"20080123685"|"20080130639").PN.					
L203	130	("20080168440"|"20080192756"|"20080235362"|"20080235511"|"20080244718"|"20080250408"|"20080273541"|"20080320096"|"20080320565"|"20090003322"|"20090006076"|"20090052399"|"20090055473"|"20090088150"|"20090136016"|"20090156217"|"20090182815"|"20090192976"|"20090234967"|"20090240821"|"20090257433"|"20090300673"|"20090327516"|"20100011108"|"20100011111"|"20100049980"|"20100058353"|"20100077023"|"20100107205"|"20100174783"|"20100191954"|"20100223047"|"20100279670"|"20100299150"|"20100299313"|"20100312832"|"20100312897"|"20110040836"|"20110099612"|"20110122864"|"20110141220"|"20110145687"|"20110307556"|"20110314134"|"20110320821"|"20120078609"|"20120124191"|"20120263144"|"20130067004"|"20130106989"|"20130111064"|"20130125145"|"20150026700"|"5442637"|"5761309"|"5790637"|"5818447"|"5889762"|"6031818"|"6128283"|"6141687"|"6161082"|"6195694"|"6202084"|"6219638"|"6298129"|"6311150"|"6343067"|"6360196"|"638	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/12/21 12:27 PM

		9016"|"6438376"|"6473425"|"6574668"|"6606112"|"6741691"|"6754181"|"6766373"|"6826613"|"6836765"|"6842460"|"6850769"|"6898413"|"6912278"|"6940826"|"6963555"|"6975718"|"6987756"|"6999575"|"6999932"|"7006508"|"7010109"|"7013155"|"7079529"|"7080158"|"7092385"|"7117526"|"7123710"|"7184415"|"7185114"|"7272377"|"7302496"|"7304985"|"7345999"|"7346044"|"7353252"|"7353255"|"7412374"|"7457279"|"7477282"|"7487248"|"7512652"|"7542472"|"7564843"|"7570743"|"7574523"|"7590758"|"7613171"|"7623476"|"7623516"|"7656870"|"7664495"|"7769881"|"7774495"|"7778187"|"7782866"|"7917584"|"8009586"|"8065418"|"8200796"|"8407576").PN.					
L204	37	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"20030110047"|"20030172145"|"20030214955"|"20040139230"|"20040153858"|"20040268257"|"20050136911"|"20050138128"|"20060072506"|"2	(USPAT; USOCR)	OR	ON	ON	2016/12/21 12:28 PM

		0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003 4793"|"20050195802"|" 20070110043"|"200803 20096"|"6987756"|"718 4415"|"7272377"|"7412					

		374"|"7477282"|"75126 52"|"20020097150"|"20 020152325"|"20030088 676"|"20030126213"|"2 0030158722"|"2003016 3525").PN.					
L205	36	("20030187650"|"20040 024879"|"20040068567 "|"20040203834"|"2004 0240399"|"2005007148 1"|"20050143105"|"200 50246193"|"200600023 55"|"20060069775"|"20 060203750"|"20070025 270"|"20070190987"|"2 0070260359"|"2008012 3685"|"20080250408"|" 20100077023"|"696355 5"|"6975718"|"7006508" |"7013155"|"7564843"|" 7782866"|"2004010097 3"|"20040158471"|"200 40162871"|"200402282 79"|"20040267938"|"20 050008024"|"20050286 519"|"20080192756"|"6 766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20	(USPAT; USOCR)	OR	ON	ON	2016/12/21 12:28 PM

		100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L206	301	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"20030110047"|"20030172145"|"20030214955"|"20040139230"|"20040153858"|"20040268257"|"20	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/21 12:28 PM

		050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003 4793"|"20050195802"|" 20070110043"|"200803					

		20096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
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		70274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L208	268	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"2004024	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/21 12:28 PM

		9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20 020178087"|"20030220 121"|"20050086309"|"2 0050138119"|"2006014 8516"|"5790637"|"6473 425").PN.					

L209	25	(L201 L202 L203) NOT (L204 L205 L206 L207 L208)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/21 12:28 PM
L210	37	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"20030110047"|"20030172145"|"20030214955"|"20040139230"|"20040153858"|"20040268257"|"20050136911"|"20050138128"|"20060072506"|"20060120375"|"20070082671"|"20070130253"|"20110145687"|"6219638"|"6754181"|"6999575"|"7185114"|"7590758"|"7623516"|"7774495"|"20030035441"|"20030076815"|"20030217171"|"20040260952"|"20050050227"|"5442637"|"5889762"|"6343067"|"7080158"|"20020031212"|"20020062285"|"20030046585"|"20040052234"|"20040139228"|"20040267527"|"20050187781"|"20060121902"|"20060171534"|"20060187926"|"20070253435"|"20080032695"|"20080168440"|"20090055473"|"20100049980"|"20100107205"|"20100312897"|"20110099612"|"20120263144"|"6141687"|"6898413"|"7010109"|"734599	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		9"|"7457279"|"7542472"|"7570743"|"8065418"|"20020080719"|"20020176404"|"20030031210"|"20030115251"|"20070016921"|"6836765"|"20020042769"|"20020124096"|"20030009565"|"20030043764"|"20030105812"|"20040128554"|"20050004982"|"20050120073"|"20050220017"|"20060062180"|"20060182100"|"20060205436"|"20070019545"|"20080091813"|"20080130639"|"20090003322"|"20090156217"|"20090234967"|"20090257433"|"20100011108"|"20100011111"|"20100279670"|"20100299150"|"20100299313"|"7346044"|"7353252"|"7574523"|"7656870"|"20020087887"|"20020120757"|"20020184310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L211	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		519"|"20080192756"|"6 766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20					

		020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L212	311	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"20030110047"|"20030172145"|"20030214955"|"20040139230"|"20040153858"|"20040268257"|"20050136911"|"20050138128"|"20060072506"|"20060120375"|"20070082671"|"20070130253"|"20110145687"|"6219638"|"6754181"|"6999575"|"7185114"|"7590758"|"7623516"|"7774495"|"20030035441"|"20030076815"|"20030217171"|"20040260952"|"20050050227"|"5442637"|"5889762"|"6343067"|"7080158"|"20020031212"|"20020062285"|"20030046585"|"20040052234"|"20040139228"|"20040267527"|"20050187781"|"20060121902"|"20060171534"|"20060187926"|"20070253435"|"20080032695"|"20080168440"|"20090055473"|"20100049980"|"20100107205"|"20100312897"|"20110099612"|"20120263	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003 4793"|"20050195802"|" 20070110043"|"200803 20096"|"6987756"|"718 4415"|"7272377"|"7412 374"|"7477282"|"75126 52"|"20020097150"|"20 020152325"|"20030088 676"|"20030126213"|"2 0030158722"|"2003016 3525").PN.					
L213	36	("20030187650"|"20040 024879"|"20040068567 "|"20040203834"|"2004 0240399"|"2005007148 1"|"20050143105"|"200 50246193"|"200600023 55"|"20060069775"|"20 060203750"|"20070025 270"|"20070190987"|"2 0070260359"|"2008012 3685"|"20080250408"|" 20100077023"|"696355 5"|"6975718"|"7006508" |"7013155"|"7564843"|" 7782866"|"2004010097 3"|"20040158471"|"200 40162871"|"200402282	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		79"|"20040267938"|"20 050008024"|"20050286 519"|"20080192756"|"6 766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|"					

		6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L214	286	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"200800053	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		28"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L215	172	CHATURVEDI-SIVAKUMAR-$.in. CHATURVEDI-SIVAKUMAR.in. GUNDABATHULA-SATISH.in. GUNDABATHULA-SATISH-$.in. HIREMATH-RASHMI.in. HIREMATH-RASHMI-$.in.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2022/04/13 12:54 PM
L216	14774	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L217	16175	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L218	1466	plug-in AND (G06F9/54.cpc. G06F9/541.cpc.	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM

		G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"					
L219	81	L8 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L220	16175	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L221	81	L11 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L222	11	L11 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911" NOT L12					
L223	49	L11 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L12	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L224	16175	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L225	81	L15 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM

		authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"					
L226	6276	((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L16	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L227	1440	((window screen pane image display) WITH (plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension)) AND((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L16					
L228	11	L15 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911" NOT L16	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L229	49	L15 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L16	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L230	156	((window screen pane image display) WITH (plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L16					
L231	159	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L16					
L232	3	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L16 L19 L20 L22)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L233	3	((window screen pane image display) WITH (((function program application app sub) NEAR2 (block section segment)) plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		(both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L16 L19 L20 L22 L23)					
L234	1577	G06F9/44526.cpc. AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L235	37	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"20030110047"|"20030172145"|"20030214955"|"200	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003					

		4793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L236	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"2006	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		0218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L237	311	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"2003	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184					

		310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L238	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L239	286	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20 020178087"|"20030220					

		121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L240	608	L26 AND (mobile cell cellular phone iphone) NOT (L16 L19 L20 L22 L24 L25 L27 L28 L29 L30 L31)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L241	16175	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L242	81	L36 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L243	81	L37	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L244	11	L36 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911" NOT L37					
L245	11	L39	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L246	49	L36 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L37	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L247	49	L41	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L248	156	((window screen pane image display) WITH (plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		(authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L37					
L249	156	L43	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L250	3	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L37 L39 L41 L43)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L251	3	L45	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM

L252	159	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L37	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L253	3	((window screen pane image display) WITH (((function program application app sub) NEAR2 (block section segment)) plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L37 L39 L41 L43 L47)					
L254	3	L48	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L255	286	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.				
L256	286	L50	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L257	1577	G06F9/44526.cpc. AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L258	37	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"2004	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		0034776"|"2004010321 2"|"20050130650"|"200 50132009"|"200501984 99"|"20050201485"|"20 060168643"|"20060258 289"|"20070136459"|"2 0070165629"|"2007020 6563"|"20070297430"|" 20080273541"|"200900 52399"|"20090240821"| "20090327516"|"20110 122864"|"20110314134 "|"6128283"|"7079529"|" 7092385"|"7487248"|"7 623476"|"20030177422 "|"20050033985"|"2005 0091407"|"6850769"|"7 304985"|"20020037000 "|"20020064167"|"2003 0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124					

		096"|"20030009565"|"20030043764"|"20030105812"|"20040128554"|"20050004982"|"20050120073"|"20050220017"|"20060062180"|"20060182100"|"20060205436"|"20070019545"|"20080091813"|"20080130639"|"20090003322"|"20090156217"|"20090234967"|"20090257433"|"20100011108"|"20100011111"|"20100279670"|"20100299150"|"20100299313"|"7346044"|"7353252"|"7574523"|"7656870"|"20020087887"|"20020120757"|"20020184310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L259	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"200502	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		70992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.				
L260	311	("20010050923"|"20020	(US-PGPUB; USPAT;	OR	ON	ON	2022/04/13

		143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"20030110047"|"20030172145"|"20030214955"|"20040139230"|"20040153858"|"20040268257"|"20050136911"|"20050138128"|"20060072506"|"20060120375"|"20070082671"|"20070130253"|"20110145687"|"6219638"|"6754181"|"6999575"|"7185114"|"7590758"|"7623516"|"7774495"|"20030035441"|"20030076815"|"20030217171"|"20040260952"|"20050050227"|"5442637"|"5889762"|"6343067"|"7080158"|"20020031212"|"20020062285"|"20030046585"|"20040052234"|"20040139228"|"20040267527"|"20050187781"|"20060121902"|"20060171534"|"20060187926"|"20070253435"|"20080032695"|"20080168440"|"20090055473"|"20100049980"|"20100107205"|"20100312897"|"20110099612"|"20120263144"|"6141687"|"6898413"|"7010109"|"7345999"|"7457279"|"7542472"|"7570743"|"8065418"|"20020080719"|"20020176404"|"20030031210"|"20030115251"|"20070	USOCR; EPO; JPO; DERWENT; IBM_TDB)				12:54 PM

		016921"|"6836765"|"20020042769"|"20020124096"|"20030009565"|"20030043764"|"20030105812"|"20040128554"|"20050004982"|"20050120073"|"20050220017"|"20060062180"|"20060182100"|"20060205436"|"20070019545"|"20080091813"|"20080130639"|"20090003322"|"20090156217"|"20090234967"|"20090257433"|"20100011108"|"20100011111"|"20100279670"|"20100299150"|"20100299313"|"7346044"|"7353252"|"7574523"|"7656870"|"20020087887"|"20020120757"|"20020184310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L261	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"2004024	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20 020178087"|"20030220 121"|"20050086309"|"2 0050138119"|"2006014 8516"|"5790637"|"6473 425").PN.					

L262	608	L52 AND (mobile cell cellular phone iphone) NOT (L37 L39 L41 L43 L45 L48 L53 L54 L55 L56 L50)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L263	608	L57	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L264	0	L36 AND without NEAR5 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L265	438	without WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L266	208	(instead place missing skipping) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM

		function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block) AND @ad<"20130911"					
L267	55360	(without instead place missing skipping) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L268	41386	(without) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L269	11	(without) NEAR2 (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L270	41	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM

		change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61)					
L271	30	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61 L64)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L272	5	(without instead place missing skipping) WITH (context NEAR3 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61 L64 L66)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L273	50	(without instead place missing skipping) WITH (context NEAR5 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61 L64 L66 L67)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L274	165	CHATURVEDI-SIVAKUMAR.in.	(US-PGPUB; USPAT)	OR	ON	ON	2022/04/13 12:54 PM

		GUNDABATHULA-SATISH.in. HIREMATH-RASHMI.in. CHATURVEDI-SIVAKUMAR-$.in. GUNDABATHULA-SATISH-$.in. HIREMATH-RASHMI-$.in.					
L275	14	without ADJ switching NEAR3 context WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L276	11	establishing WITH function WITH block WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L277	16175	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L278	81	L72 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L279	81	L73	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L280	81	L74	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L281	11	L72 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911" NOT L73					
L282	11	L76	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L283	11	L77	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L284	49	L72 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L73	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L285	49	L79	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L286	49	L80	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L287	156	((window screen pane image display) WITH (plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L73					
L288	156	L82	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L289	156	L83	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L290	3	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L73 L76 L79 L82)					
L291	3	L85	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L292	3	L86	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L293	159	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		@ad<"20130911" NOT L73					
L294	3	((window screen pane image display) WITH (((function program application app sub) NEAR2 (block section segment)) plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L73 L76 L79 L82 L88)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L295	3	L89	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L296	3	L90	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L297	286	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		270"|"20070190987"|"2 0070260359"|"2008012 3685"|"20080250408"|" 20100077023"|"696355 5"|"6975718"|"7006508" |"7013155"|"7564843"|" 7782866"|"2004010097 3"|"20040158471"|"200 40162871"|"200402282 79"|"20040267938"|"20 050008024"|"20050286 519"|"20080192756"|"6 766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013					

		3689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L298	286	L92	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L299	286	L93	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L300	1577	G06F9/44526.cpc. AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L301	37	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"20030110047"|"20030172145"|"20030214955"|"20040139230"|"20040153858"|"20040268257"|"20050136911"|"20050138128"|"20060072506"|"20060120375"|"20070082671"|"20070130253"|"20110145687"|"621963	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003 4793"|"20050195802"|" 20070110043"|"200803 20096"|"6987756"|"718 4415"|"7272377"|"7412 374"|"7477282"|"75126 52"|"20020097150"|"20 020152325"|"20030088					

		676"|"20030126213"|"20030158722"|"20030163525").PN.					
L302	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"643837	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		6"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L303	311	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"20030110047"|"20030172145"|"20030214955"|"20040139230"|"20040153858"|"20040268257"|"20050136911"|"20050138128"|"20060072506"|"20060120375"|"2007008	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003 4793"|"20050195802"|" 20070110043"|"200803 20096"|"6987756"|"718 4415"|"7272377"|"7412 374"|"7477282"|"75126					

		52"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L304	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L305	608	L95 AND (mobile cell cellular phone iphone) NOT (L73 L76 L79 L82 L85 L89 L96 L97 L98 L99 L92)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L306	608	L100	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L307	608	L101	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L308	0	L72 AND without NEAR5 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM

		ADJ block application ADJ block appblock app-block application-block)					
L309	0	L103	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L310	438	without WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L311	438	L105	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L312	208	(instead place missing skipping) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L313	208	L107	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L314	11	(without) NEAR2 (context NEAR1 (switch switches switching switched swap swaps swapping swapped	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM

		change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L105 L107)					
L315	11	L109	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L316	41	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L105 L107)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L317	41	L111	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L318	30	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L105 L107 L109)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L319	30	L113	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L320	5	(without instead place missing skipping) WITH (context NEAR3 (switch switches switching switched swap swaps swapping swapped change changes changing changed	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM

		move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L105 L107 L109 L113)					
L321	5	L115	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L322	50	(without instead place missing skipping) WITH (context NEAR5 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L105 L107 L109 L113 L115)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L323	50	L117	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L324	165	CHATURVEDI-SIVAKUMAR.in. GUNDABATHULA-SATISH.in. HIREMATH-RASHMI.in. CHATURVEDI-SIVAKUMAR-$.in. GUNDABATHULA-SATISH-$.in. HIREMATH-RASHMI-$.in.	(US-PGPUB; USPAT)	OR	ON	ON	2022/04/13 12:54 PM
L325	172	L119	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L326	14	without ADJ switching NEAR3 context WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L327	14	L121	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L328	11	establishing WITH function WITH block WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L329	11	L123	(US-PGPUB; USPAT; EPO; JPO;	OR	ON	ON	2022/04/13 12:54 PM

			DERWENT; IBM_TDB)				
L330	16175	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L331	81	L128 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L332	81	L129	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L333	81	L130	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L334	81	L131	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L335	11	L128 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		@ad<"20130911" NOT L129					
L336	11	L133	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L337	11	L134	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L338	11	L135	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L339	49	L128 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L129	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L340	49	L137	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L341	49	L138	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L342	49	L139	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L343	156	((window screen pane image display) WITH (plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND(	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		(plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L129					
L344	156	L141	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L345	156	L142	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L346	156	L143	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L347	3	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L129 L133 L137 L141)					
L348	3	L145	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L349	3	L146	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L350	3	L147	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L351	159	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		capable permission clearence)) AND @ad<"20130911" NOT L129					
L352	3	((window screen pane image display) WITH (((function program application app sub) NEAR2 (block section segment)) plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L129 L133 L137 L141 L149)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L353	3	L150	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L354	3	L151	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L355	3	L152	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L356	286	("20030187650"|"20040024879"|"20040068567	(US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	ON	2022/04/13 12:54 PM

		"|"20040203834"|"2004 0240399"|"2005007148 1"|"20050143105"|"200 50246193"|"200600023 55"|"20060069775"|"20 060203750"|"20070025 270"|"20070190987"|"2 0070260359"|"2008012 3685"|"20080250408"|" 20100077023"|"696355 5"|"6975718"|"7006508" |"7013155"|"7564843"|" 7782866"|"2004010097 3"|"20040158471"|"200 40162871"|"200402282 79"|"20040267938"|"20 050008024"|"20050286 519"|"20080192756"|"6 766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65	DERWENT; IBM_TDB)				

		74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20 020178087"|"20030220 121"|"20050086309"|"2 0050138119"|"2006014 8516"|"5790637"|"6473 425").PN.					
L357	286	L154	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L358	286	L155	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L359	286	L156	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L360	1577	G06F9/44526.cpc. AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L361	37	("20010050923"|"20020 143548"|"20020156844 "|"20030202480"|"2004 0034776"|"2004010321 2"|"20050130650"|"200 50132009"|"200501984 99"|"20050201485"|"20 060168643"|"20060258 289"|"20070136459"|"2 0070165629"|"2007020 6563"|"20070297430"|" 20080273541"|"200900 52399"|"20090240821"| "20090327516"|"20110 122864"|"20110314134 "|"6128283"|"7079529"|" 7092385"|"7487248"|"7 623476"|"20030177422 "|"20050033985"|"2005 0091407"|"6850769"|"7 304985"|"20020037000 "|"20020064167"|"2003	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184					

		310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L362	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		144288"|"20050201357"|"20060195402"|"20060218624"|"2006023016 6"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L363	311	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		304985"|"20020037000 "|"20020064167"|"2003 0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568					

		70"|"20020087887"|"20020120757"|"20020184310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L364	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"200401	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		48434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.				
L365	608	L158 AND (mobile cell cellular phone iphone) NOT (L129 L133 L137 L141 L145 L150 L159 L160 L161 L162 L154)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L366	608	L163	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L367	608	L164	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L368	608	L165	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L369	0	L128 AND without NEAR5 (switch switches switching	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM

		switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)					
L370	0	L167	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L371	0	L168	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L372	438	without WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L373	438	L170	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L374	438	L171	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L375	208	(instead place missing skipping) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM

		super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block) AND @ad<"20130911"					
L376	208	L173	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L377	208	L174	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L378	11	(without) NEAR2 (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L379	11	L176	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L380	11	L177	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L381	41	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L382	41	L179	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L383	41	L180	(US-PGPUB; USPAT;	OR	ON	ON	2022/04/13

			EPO; JPO; DERWENT)				12:54 PM
L384	30	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173 L176)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L385	30	L182	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L386	30	L183	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L387	5	(without instead place missing skipping) WITH (context NEAR3 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173 L176 L182)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L388	5	L185	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L389	5	L186	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L390	14	without ADJ switching NEAR3 context WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L391	14	L188	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L392	14	L189	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L393	11	establishing WITH	(US-PGPUB; USPAT;	OR	ON	ON	2022/04/13

		function WITH block WITH superblock	EPO; JPO; DERWENT)				12:54 PM
L394	11	L191	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L395	11	L192	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L396	62	(establish establishes establishing established establishment ascertain ascertains ascertaining ascertained determine determines determining determined determination discover discovers discovering discovered discovery learn learns learning learned (find finds finding) ADJ out found certain confirm confirms confirming confirmed confirmation) WITH (lack lacks lacking lacked without) WITH (superblock super-block super ADJ block (parent child primary secondary top bottom) ADJ block) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L397	60	(establish establishes establishing established establishment ascertain ascertains ascertaining ascertained determine determines determining determined determination discover discovers discovering discovered discovery learn learns learning learned (find finds finding) ADJ out found certain confirm confirms confirming confirmed confirmation) WITH (lack lacks lacking lacked without) WITH ((parent child primary secondary top bottom) ADJ (application program app)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L398	177	(network net grid web cloud LAN WAN) SAME	(US-PGPUB; USPAT; EPO; JPO;	OR	ON	ON	2022/04/13 12:54 PM

		((lack lacks lacking lacked without) WITH ((master slave parent child primary secondary top bottom) ADJ (application program app))) AND @ad<"20130911" NOT (L194 L195)	DERWENT)				
L399	2791	(network net grid web cloud LAN WAN) SAME ((lack lacks lacking lacked without) WITH ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L400	1721	(network net grid web cloud LAN WAN) WITH ((lack lacks lacking lacked without) WITH ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L401	756	(network net grid web cloud LAN WAN) WITH ((lack lacks lacking lacked without) NEAR5 ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L402	247	(network net grid web cloud LAN WAN) NEAR5 ((lack lacks lacking lacked without) NEAR3 ((support	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM

		supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR3 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)					
L403	60	("20010050923"|"20020031212"|"20020037000"|"20020038282"|"20020042769"|"20020062285"|"20020064167"|"20020080719"|"20020087887"|"20020097150"|"20020120757"|"20020124096"|"20020143548"|"20020150110"|"20020152325"|"20020156844"|"20020166053"|"20020173303"|"20020176404"|"20020178087"|"20020184310"|"20030009565"|"20030031210"|"20030035441"|"20030043764"|"20030044020"|"20030046056"|"20030046585"|"20030061025"|"20030061481"|"20030072485"|"20030076815"|"20030078858"|"20030088676"|"20030105812"|"20030110047"|"20030115251"|"20030126213"|"20030135569"|"20030137939"|"20030158722"|"20030163525"|"20030163697"|"20030172145"|"20030174707"|"20030177186"|"20030177422"|"20030187650"|"20030202480"|"20030212772"|"20030214955"|"20030217171"|"20030217318"|"20030220121"|"20030229715"|"20040005877"|"20040024879"|"20040034776"|"20040034793"|"20040039781").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM
L404	110	("20040044517"|"20040052234"|"20040062267"|"20040068567"|"20040100973"|"20040103212"|"20040128554"|"20040133689"|"200401392	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		25"|"20040139228"|"20 040139230"|"20040143 678"|"20040148434"|"2 0040153858"|"2004015 8471"|"20040162871"|" 20040193599"|"200402 03834"|"20040213184"| "20040228279"|"20040 240399"|"20040249885 "|"20040249953"|"2004 0260952"|"2004026752 7"|"20040267938"|"200 40268257"|"200500049 82"|"20050008024"|"20 050015502"|"20050033 843"|"20050033985"|"2 0050050227"|"2005007 1481"|"20050086309"|" 20050091407"|"200501 05524"|"20050119005"| "20050120073"|"20050 130650"|"20050132009 "|"20050136911"|"2005 0138119"|"2005013812 8"|"20050143105"|"200 50144288"|"200501877 81"|"20050187957"|"20 050195802"|"20050198 499"|"20050201357"|"2 0050201485"|"2005020 8947"|"20050220017"|" 20050246193"|"200502 49196"|"20050254440"| "20050270992"|"20050 286519"|"20060002355 "|"20060062180"|"2006 0069775"|"2006007250 6"|"20060120375"|"200 60121902"|"200601219 86"|"20060148516"|"20 060165029"|"20060168 643"|"20060171534"|"2 0060182100"|"2006018 3476"|"20060187926"|" 20060195402"|"200602 03750"|"20060205436"| "20060218624"|"20060 230166"|"20060233117 "|"20060246903"|"2006 0258289"|"2007001692 1"|"20070019545"|"200 70025270"|"200700787 85"|"20070082671"|"20 070110043"|"20070111 794"|"20070116224"|"2 0070130253"|"2007013 6459"|"20070165629"|" 20070190987"|"200702					

		06563"|"20070239892"|"20070253435"|"20070260359"|"20070274276"|"20070280253"|"20070294626"|"20070297430"|"20080005328"|"20080019285"|"20080032695"|"20080046984"|"20080069105"|"20080080392"|"20080091813"|"20080123685"|"20080130639").PN.					
L405	130	("20080168440"|"20080192756"|"20080235362"|"20080235511"|"20080244718"|"20080250408"|"20080273541"|"20080320096"|"20080320565"|"20090003322"|"20090006076"|"20090052399"|"20090055473"|"20090088150"|"20090136016"|"20090156217"|"20090182815"|"20090192976"|"20090234967"|"20090240821"|"20090257433"|"20090300673"|"20090327516"|"20100011108"|"20100011111"|"20100049980"|"20100058353"|"20100077023"|"20100107205"|"20100174783"|"20100191954"|"20100223047"|"20100279670"|"20100299150"|"20100299313"|"20100312832"|"20100312897"|"20110040836"|"20110099612"|"20110122864"|"20110141220"|"20110145687"|"20110307556"|"20110314134"|"20110320821"|"20120078609"|"20120124191"|"20120263144"|"20130067004"|"20130106989"|"20130111064"|"20130125145"|"20150026700"|"5442637"|"5761309"|"5790637"|"5818447"|"5889762"|"6031818"|"6128283"|"6141687"|"6161082"|"6195694"|"6202084"|"6219638"|"6298129"|"6311150"|"6343067"|"6360196"|"6389016"|"6438376"|"6473	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		425"|"6574668"|"66061 12"|"6741691"|"675418 1"|"6766373"|"6826613" |"6836765"|"6842460"|" 6850769"|"6898413"|"6 912278"|"6940826"|"69 63555"|"6975718"|"698 7756"|"6999575"|"6999 932"|"7006508"|"70101 09"|"7013155"|"707952 9"|"7080158"|"7092385" |"7117526"|"7123710"|" 7184415"|"7185114"|"7 272377"|"7302496"|"73 04985"|"7345999"|"734 6044"|"7353252"|"7353 255"|"7412374"|"74572 79"|"7477282"|"748724 8"|"7512652"|"7542472" |"7564843"|"7570743"|" 7574523"|"7590758"|"7 613171"|"7623476"|"76 23516"|"7656870"|"766 4495"|"7769881"|"7774 495"|"7778187"|"77828 66"|"7917584"|"800958 6"|"8065418"|"8200796" |"8407576").PN.					
L406	37	("20010050923"|"20020 143548"|"20020156844 "|"20030202480"|"2004 0034776"|"2004010321 2"|"20050130650"|"200 50132009"|"200501984 99"|"20050201485"|"20 060168643"|"20060258 289"|"20070136459"|"2 0070165629"|"2007020 6563"|"20070297430"|" 20080273541"|"200900 52399"|"20090240821"| "20090327516"|"20110 122864"|"20110314134 "|"6128283"|"7079529"|" 7092385"|"7487248"|"7 623476"|"20030177422 "|"20050033985"|"2005 0091407"|"6850769"|"7 304985"|"20020037000 "|"20020064167"|"2003 0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003 4793"|"20050195802"|" 20070110043"|"200803 20096"|"6987756"|"718 4415"|"7272377"|"7412 374"|"7477282"|"75126					

		52"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L407	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20 020178087"|"20030220 121"|"20050086309"|"2 0050138119"|"2006014 8516"|"5790637"|"6473 425").PN.					
L408	311	("20010050923"|"20020 143548"|"20020156844 "|"20030202480"|"2004 0034776"|"2004010321 2"|"20050130650"|"200 50132009"|"200501984 99"|"20050201485"|"20 060168643"|"20060258 289"|"20070136459"|"2 0070165629"|"2007020 6563"|"20070297430"|" 20080273541"|"200900 52399"|"20090240821"| "20090327516"|"20110 122864"|"20110314134 "|"6128283"|"7079529"|" 7092385"|"7487248"|"7 623476"|"20030177422 "|"20050033985"|"2005 0091407"|"6850769"|"7 304985"|"20020037000 "|"20020064167"|"2003 0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003 4793"|"20050195802"|" 20070110043"|"200803 20096"|"6987756"|"718					

		4415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L409	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"200800053	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		28"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L410	286	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20 020178087"|"20030220 121"|"20050086309"|"2 0050138119"|"2006014 8516"|"5790637"|"6473 425").PN.					

L411	65	(L201 L202 L203) NOT (L204 L205 L206 L207 L208)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L414	608	L164	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:10 AM
L415	608	L165	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L416	0	L128 AND without NEAR5 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L417	0	L167	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:10 AM
L418	0	L168	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L419	510	without WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L420	510	L170	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:10 AM

L421	510	L171	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L422	208	(instead place missing skipping) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L423	208	L173	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:10 AM
L424	208	L174	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L425	11	(without) NEAR2 (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L426	11	L176	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:10 AM
L427	11	L177	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L428	41	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM

		change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173)					
L429	41	L179	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:10 AM
L430	41	L180	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L431	30	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173 L176)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L432	30	L182	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:10 AM
L433	30	L183	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L434	5	(without instead place missing skipping) WITH (context NEAR3 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173 L176 L182)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L435	5	L185	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:10 AM
L436	5	L186	(US-PGPUB; USPAT;	OR	ON	ON	2024/08/22

			EPO; JPO; DERWENT)				10:10 AM
L437	18	without ADJ switching NEAR3 context WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L438	18	L188	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:10 AM
L439	18	L189	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L440	11	establishing WITH function WITH block WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L441	11	L191	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:10 AM
L442	11	L192	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L443	62	(establish establishes establishing established establishment ascertain ascertains ascertaining ascertained determine determines determining determined determination discover discovers discovering discovered discovery learn learns learning learned (find finds finding) ADJ out found certain confirm confirms confirming confirmed confirmation) WITH (lack lacks lacking lacked without) WITH (superblock super-block super ADJ block (parent child primary secondary top bottom) ADJ block) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L444	61	(establish establishes establishing established establishment ascertain ascertains ascertaining ascertained determine determines determining determined determination discover discovers discovering discovered discovery learn learns learning learned (find finds	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM

		finding) ADJ out found certain confirm confirms confirming confirmed confirmation) WITH (lack lacks lacking lacked without) WITH ((parent child primary secondary top bottom) ADJ (application program app)) AND @ad<"20130911"					
L445	179	(network net grid web cloud LAN WAN) SAME ((lack lacks lacking lacked without) WITH ((master slave parent child primary secondary top bottom) ADJ (application program app))) AND @ad<"20130911" NOT (L194 L195)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L446	2789	(network net grid web cloud LAN WAN) SAME ((lack lacks lacking lacked without) WITH ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L447	1721	(network net grid web cloud LAN WAN) WITH ((lack lacks lacking lacked without) WITH ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L448	756	(network net grid web cloud LAN WAN) WITH ((lack lacks lacking lacked without) NEAR5 ((support supports supporting supported	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM

		supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)					
L449	247	(network net grid web cloud LAN WAN) NEAR5 ((lack lacks lacking lacked without) NEAR3 ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR3 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L450	11	(without) NEAR2 (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L451	11	L176	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:31 AM
L452	11	L177	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L453	41	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM

		(L170 L173)					
L454	41	L179	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:31 AM
L455	41	L180	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L456	30	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173 L176)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L457	30	L182	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:31 AM
L458	30	L183	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L459	5	(without instead place missing skipping) WITH (context NEAR3 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173 L176 L182)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L460	5	L185	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:31 AM
L461	5	L186	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L462	18	without ADJ switching NEAR3 context WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L463	18	L188	(US-PGPUB; USPAT; EPO; JPO;	OR	ON	ON	2024/08/22 10:31 AM

			DERWENT; IBM_TDB)				
L464	18	L189	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L465	11	establishing WITH function WITH block WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L466	11	L191	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:31 AM
L467	11	L192	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L468	62	(establish establishes establishing established establishment ascertain ascertains ascertaining ascertained determine determines determining determined determination discover discovers discovering discovered discovery learn learns learning learned (find finds finding) ADJ out found certain confirm confirms confirming confirmed confirmation) WITH (lack lacks lacking lacked without) WITH (superblock super-block super ADJ block (parent child primary secondary top bottom) ADJ block) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L469	61	(establish establishes establishing established establishment ascertain ascertains ascertaining ascertained determine determines determining determined determination discover discovers discovering discovered discovery learn learns learning learned (find finds finding) ADJ out found certain confirm confirms confirming confirmed confirmation) WITH (lack lacks lacking lacked without) WITH ((parent child primary secondary top bottom)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM

		ADJ (application program app)) AND @ad<"20130911"					
L470	179	(network net grid web cloud LAN WAN) SAME ((lack lacks lacking lacked without) WITH ((master slave parent child primary secondary top bottom) ADJ (application program app))) AND @ad<"20130911" NOT (L194 L195)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L471	2789	(network net grid web cloud LAN WAN) SAME ((lack lacks lacking lacked without) WITH ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L472	1721	(network net grid web cloud LAN WAN) WITH ((lack lacks lacking lacked without) WITH ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L473	756	(network net grid web cloud LAN WAN) WITH ((lack lacks lacking lacked without) NEAR5 ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM

L474	247	(network net grid web cloud LAN WAN) NEAR5 ((lack lacks lacking lacked without) NEAR3 ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR3 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L475	124	("5818447" "6031818" "6128283" "6148336" "6161082" "6298129" "6311150" "6389016" "6438376" "6754181" "6766373" "6898413" "6999932" "7006508" "7010109" "7092385" "7123710" "7185114" "7272377" "7302496" "7304985" "7345999" "7346044" "7353255" "7412374" "7487248" "7542472" "7564843" "7570743" "7574523" "7590758" "7623476" "7623516" "7656870" "7664495" "7769881" "7774495" "7778187" "7782866" "7917584" "8065418" "20090254753" "20120064976").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:46 AM
L476	36	(audio/video audio-video audio ADJ video AV A/V) AND (without missing ommitting lacking) WITH (superblock super ADJ block super-block) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/23 12:00 PM
L477	0	(audio/video audio-video audio ADJ video AV A/V) AND (without missing ommitting lacking) WITH (superblock super ADJ block super-block) AND @ad<"20130911" NOT L476	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/23 12:05 PM
L478	186	(without missing ommitting lacking)	(US-PGPUB; USPAT; EPO; JPO;	OR	ON	ON	2024/08/23 12:05 PM

		WITH (superblock super ADJ block super-block) AND @ad<"20130911" NOT L476	DERWENT)				
L479	388	(audio/video audio-video audio ADJ video AV A/V) AND (without missing ommitting lacking) WITH (support$3 assist$3 assistance help$3 aid$3) WITH (block) AND @ad<"20130911" NOT (L476 L478)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/23 12:32 PM
L480	42	(audio/video audio-video audio ADJ video AV A/V) AND (need$3 require$3 necessitat$3 demand$3) WITH ((network) near2 (interface port junction)) WITH (block) AND @ad<"20130911" NOT (L476 L478)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/23 01:22 PM
L481	343	(need$3 require$3 necessitat$3 demand$3) WITH ((network) near2 (interface port junction)) WITH (block) AND @ad<"20130911" NOT (L476 L478 L480)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/23 01:27 PM
L482	103	(need$3 require$3 necessitat$3 demand$3) WITH ((network) near3 (interface port junction)) WITH (block) AND @ad<"20130911" NOT (L476 L478 L480 L481)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/24 08:06 AM
L483	89	(need$3 require$3 necessitat$3 demand$3) WITH ((network) near5 (interface port junction)) WITH (block) AND @ad<"20130911" NOT (L476 L478 L480 L481 L482)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/24 08:43 AM
L484	608	L164	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 12:40 PM
L485	608	L165	(US-PGPUB; USPAT; EPO; JPO;	OR	ON	ON	2025/01/31 12:40 PM

			DERWENT)				
L486	0	L128 AND without NEAR5 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L487	0	L167	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 12:40 PM
L488	0	L168	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L489	522	without WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L490	522	L170	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 12:40 PM
L491	522	L171	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L492	208	(instead place missing skipping) WITH (switch switches switching switched swap swaps swapping swapped	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM

		change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block) AND @ad<"20130911"					
L493	208	L173	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 12:40 PM
L494	208	L174	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L495	11	(without) NEAR2 (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L496	11	L176	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 12:40 PM
L497	11	L177	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L498	41	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM

L499	41	L179	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 12:40 PM
L500	41	L180	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L501	30	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173 L176)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L502	30	L182	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 12:40 PM
L503	30	L183	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L504	5	(without instead place missing skipping) WITH (context NEAR3 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173 L176 L182)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L505	5	L185	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 12:40 PM
L506	5	L186	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L507	18	without ADJ switching NEAR3 context WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L508	18	L188	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 12:40 PM

L509	18	L189	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L510	11	establishing WITH function WITH block WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L511	11	L191	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 12:40 PM
L512	11	L192	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L513	62	(establish establishes establishing established establishment ascertain ascertains ascertaining ascertained determine determines determining determined determination discover discovers discovering discovered discovery learn learns learning learned (find finds finding) ADJ out found certain confirm confirms confirming confirmed confirmation) WITH (lack lacks lacking lacked without) WITH (superblock super-block super ADJ block (parent child primary secondary top bottom) ADJ block) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L514	61	(establish establishes establishing established establishment ascertain ascertains ascertaining ascertained determine determines determining determined determination discover discovers discovering discovered discovery learn learns learning learned (find finds finding) ADJ out found certain confirm confirms confirming confirmed confirmation) WITH (lack lacks lacking lacked without) WITH ((parent child primary secondary top bottom) ADJ (application	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM

		program app)) AND @ad<"20130911"					
L515	179	(network net grid web cloud LAN WAN) SAME ((lack lacks lacking lacked without) WITH ((master slave parent child primary secondary top bottom) ADJ (application program app))) AND @ad<"20130911" NOT (L194 L195)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L516	2789	(network net grid web cloud LAN WAN) SAME ((lack lacks lacking lacked without) WITH ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L517	1721	(network net grid web cloud LAN WAN) WITH ((lack lacks lacking lacked without) WITH ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L518	756	(network net grid web cloud LAN WAN) WITH ((lack lacks lacking lacked without) NEAR5 ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L519	247	(network net grid web	(US-PGPUB; USPAT;	OR	ON	ON	2025/01/31

		cloud LAN WAN) NEAR5 ((lack lacks lacking lacked without) NEAR3 ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR3 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	EPO; JPO; DERWENT)				12:40 PM
L520	11	(without) NEAR2 (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L521	11	L176	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 12:40 PM
L522	11	L177	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L523	41	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L524	41	L179	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 12:40 PM
L525	41	L180	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L526	30	(without instead place	(US-PGPUB; USPAT;	OR	ON	ON	2025/01/31

		missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173 L176)	EPO; JPO; DERWENT)				12:40 PM
L527	30	L182	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 12:40 PM
L528	30	L183	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L529	5	(without instead place missing skipping) WITH (context NEAR3 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173 L176 L182)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L530	5	L185	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 12:40 PM
L531	5	L186	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L532	18	without ADJ switching NEAR3 context WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L533	18	L188	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 12:40 PM
L534	18	L189	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L535	11	establishing WITH function WITH block WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L536	11	L191	(US-PGPUB; USPAT;	OR	ON	ON	2025/01/31

			EPO; JPO; DERWENT; IBM_TDB)				12:40 PM
L537	11	L192	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L538	62	(establish establishes establishing established establishment ascertain ascertains ascertaining ascertained determine determines determining determined determination discover discovers discovering discovered discovery learn learns learning learned (find finds finding) ADJ out found certain confirm confirms confirming confirmed confirmation) WITH (lack lacks lacking lacked without) WITH (superblock super-block super ADJ block (parent child primary secondary top bottom) ADJ block) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L539	61	(establish establishes establishing established establishment ascertain ascertains ascertaining ascertained determine determines determining determined determination discover discovers discovering discovered discovery learn learns learning learned (find finds finding) ADJ out found certain confirm confirms confirming confirmed confirmation) WITH (lack lacks lacking lacked without) WITH ((parent child primary secondary top bottom) ADJ (application program app)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L540	179	(network net grid web cloud LAN WAN) SAME ((lack lacks lacking lacked without) WITH ((master slave parent	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM

		child primary secondary top bottom) ADJ (application program app))) AND @ad<"20130911" NOT (L194 L195)					
L541	2789	(network net grid web cloud LAN WAN) SAME ((lack lacks lacking lacked without) WITH ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L542	1721	(network net grid web cloud LAN WAN) WITH ((lack lacks lacking lacked without) WITH ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L543	756	(network net grid web cloud LAN WAN) WITH ((lack lacks lacking lacked without) NEAR5 ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L544	247	(network net grid web cloud LAN WAN) NEAR5 ((lack lacks lacking lacked without) NEAR3 ((support supports supporting supported supporter maintain maintains	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM

		maintaining maintained maintanence) NEAR3 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)					
L545	129	("5818447" "6031818" "6128283" "6148336" "6161082" "6298129" "6311150" "6389016" "6438376" "6754181" "6766373" "6898413" "6999932" "7006508" "7010109" "7092385" "7123710" "7185114" "7272377" "7302496" "7304985" "7345999" "7346044" "7353255" "7412374" "7487248" "7542472" "7564843" "7570743" "7574523" "7590758" "7623476" "7623516" "7656870" "7664495" "7769881" "7774495" "7778187" "7782866" "7917584" "8065418" "20090254753" "20120064976").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L546	36	(audio/video audio-video audio ADJ video AV A/V) AND (without missing ommitting lacking) WITH (superblock super ADJ block super-block) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L547	0	(audio/video audio-video audio ADJ video AV A/V) AND (without missing ommitting lacking) WITH (superblock super ADJ block super-block) AND @ad<"20130911" NOT L476	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L548	187	(without missing ommitting lacking) WITH (superblock super ADJ block super-block) AND @ad<"20130911" NOT L476	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L549	388	(audio/video audio-video audio ADJ video AV A/V) AND (without	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM

		missing ommitting lacking) WITH (support$3 assist$3 assistance help$3 aid$3) WITH (block) AND @ad<"20130911" NOT (L476 L478)					
L550	42	(audio/video audio-video audio ADJ video AV A/V) AND (need$3 require$3 necessitat$3 demand$3) WITH ((network) near2 (interface port junction)) WITH (block) AND @ad<"20130911" NOT (L476 L478)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L551	343	(need$3 require$3 necessitat$3 demand$3) WITH ((network) near2 (interface port junction)) WITH (block) AND @ad<"20130911" NOT (L476 L478 L480)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L552	103	(need$3 require$3 necessitat$3 demand$3) WITH ((network) near3 (interface port junction)) WITH (block) AND @ad<"20130911" NOT (L476 L478 L480 L481)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L553	90	(need$3 require$3 necessitat$3 demand$3) WITH ((network) near5 (interface port junction)) WITH (block) AND @ad<"20130911" NOT (L476 L478 L480 L481 L482)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2025/01/31 12:40 PM
L554	413	L360 AND (3rd third later subsequent) near2 (user party customer applicant) WITH (block superblock app application program)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO;	OR	ON	ON	2025/01/31 01:33 PM

			JPO; DERWENT; IBM_TDB)				
L555	114969	(3rd third later subsequent) near2 (user party customer applicant) near5 (block superblock app application program) AND @ad<"20130911" NOT L554	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 02:13 PM
L556	114969	(3rd third later subsequent) near2 (user party customer applicant) near5 (block superblock app application program) AND @ad<"20130911" NOT L554	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 02:13 PM
L557	1714	(3rd third later subsequent) near2 (user party customer applicant) near5 (block superblock app application program) SAME (compil$3) AND @ad<"20130911" NOT L554	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 02:14 PM
L558	652	(3rd third later subsequent) near2 (user party customer applicant) near5 (block superblock app application program)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2025/01/31 02:14 PM

		WITH (compil$3) AND @ad<"20130911" NOT L554	HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L559	620	(3rd third later subsequent) NEAR (user party customer applicant) near5 (block superblock app application program) WITH (compil$3) AND @ad<"20130911" NOT L554	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 02:14 PM
L560	469	(3rd third later subsequent) NEAR (user party customer applicant) near3 (block superblock app application program) WITH (compil$3) AND @ad<"20130911" NOT L554	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 02:14 PM
L561	2576	(3rd third later subsequent) near2 (user party customer applicant) WITH (block superblock app application program) SAME (compil$3) AND @ad<"20130911" NOT (L554 L560)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2025/01/31 03:13 PM

			IBM_TDB)				
L562	780	(3rd third later subsequent) near2 (user party customer applicant) WITH (block superblock app application program) WITH (compil$3) AND @ad<"20130911" NOT (L554 L560)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 03:13 PM
L563	729	(3rd third later subsequent) near1 (user party customer applicant) WITH (block superblock app application program) WITH (compil$3) AND @ad<"20130911" NOT (L554 L560)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/01/31 03:13 PM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N34	12	719/313,319,329.ccls.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/03/16 11:01 AM
N35	23	719/313,319,329.ccls. G06F9/54 G06F9/541 G06F9/542 NOT N34	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/03/16 11:15 AM
N125	4	function ADJ block WITH mobile WITH superblock	(US-PGPUB; USPAT)	OR	ON	ON	2016/06/13 09:27 AM
N126	2	function ADJ block WITH notifying WITH superblock	(US-PGPUB; USPAT)	OR	ON	ON	2016/06/13 09:29 AM
N127	2	switching ADJ context WITH establishing WITH superblock	(US-PGPUB; USPAT)	OR	ON	ON	2016/06/13 09:30 AM
N210	23	audio/video NEAR3 functionality WITH block	(US-PGPUB; USPAT)	OR	ON	ON	2016/12/22 09:43 AM

N211	4	superblock NEAR5 audio/video	(US-PGPUB; USPAT)	OR	ON	ON	2016/12/22 09:44 AM
N212	1	A/V ADJ service WITH superblock	(US-PGPUB; USPAT)	OR	ON	ON	2016/12/22 09:45 AM
N213	0	provide ADJ audio WITH service	(US-PGPUB; USPAT)	OR	ON	ON	2016/12/22 09:46 AM
N214	0	method near5 real-time ADJ commnication ADJ session	(US-PGPUB; USPAT)	OR	ON	ON	2025/02/18 08:08 AM
N215	0	method WITH real-time ADJ commnication ADJ session	(US-PGPUB; USPAT)	OR	ON	ON	2025/02/18 08:11 AM
N216	0	internet near2 superblock ADJ applicaiton ADJ intended	(US-PGPUB; USPAT)	OR	ON	ON	2025/02/18 08:12 AM
N217	0	providing near1 function ADJ block near2 use near1 adding	(US-PGPUB; USPAT)	OR	ON	ON	2025/02/18 08:13 AM
N218	0	own ADJ functionality near2 display ADJ window	(US-PGPUB; USPAT)	OR	ON	ON	2025/02/18 08:13 AM
N219	0	comiled near3 superblock ADJ application near2 configured	(US-PGPUB; USPAT)	OR	ON	ON	2025/02/18 08:15 AM
N220	0	compiled near3 superblock ADJ application near2 configured	(US-PGPUB; USPAT)	OR	ON	ON	2025/02/18 08:15 AM
N221	29	provide near2 real-time ADJ communication ADJ session	(US-PGPUB; USPAT)	OR	ON	ON	2025/02/18 08:16 AM
N222	0	function ADJ block near1 configured near1 interact	(US-PGPUB; USPAT)	OR	ON	ON	2025/02/18 08:20 AM
N223	0	superbloack ADJ applicaiton ADJ through near5 applicaiton ADJ programming ADJ interface	(US-PGPUB; USPAT)	OR	ON	ON	2025/02/18 08:21 AM
N224	0	enabling ADJ establishment near2 real-time ADJ communication	(US-PGPUB; USPAT)	OR	ON	ON	2025/02/18 08:21 AM
N225	0	servers near2 funciton ADJ block ADJ compiled	(US-PGPUB; USPAT)	OR	ON	ON	2025/02/18 08:22 AM
N226	1	function ADJ block near2 provide near2 real-time ADJ communication	(US-PGPUB; USPAT)	OR	ON	ON	2025/02/18 08:22 AM

Interchain: A Scalable Business-Oriented Framework for Internet of Things

AM Golpayegani, M Zarei, A Souri - Blockchain for Cybersecurity ..., 2020 - taylorfrancis.com

... of the idea by implementing a generic **application**. ... to exchanging assets using **other** blockchain **functions**. • Child chain: ... introduced to a **superblock**, or it could be **added** from the starting ...

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Use of the MATRIXx Integrated Toolkit on the Microwave Anisotropy Probe Attitude Control System

DK Ward, SF Andrews, DC McComas, JR ODonnell Jr - 1999 - ntrs.nasa.gov

... Figure 4 shows the ACS **SuperBlock**, divided primarily into the portions ... MAP **uses** a custom built library called the software bus as the inter-... INCA includes some **additional functionality** ...

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Rank/select on dynamic compressed sequences and **applications**

R González, G Navarro - Theoretical Computer Science, 2009 - Elsevier

... representation replaces B and in **addition** gives rank/select **functionality** on it. ... If **superblock** sb − 1 can hold one **more** symbol, we insert the removed symbol c at the end of **superblock** sb ...

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A multi-fidelity software framework for interactive modeling of advective and diffusive contaminant transport in groundwater

V Kalivarapu, E Winer - Environmental Modelling & Software, 2008 - Elsevier

... of computer **functions** that can ... **Superblock** AEM solver **uses** the input file to solve for the ellipsoids and compute the contaminant flow paths. The number of ellipsoids that can be **added** ...

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A new approach to reorganize code layout of software cache in dynamic binary translator

Y He, K Chen, J Gu, H Deng, A Liang, ... - 2010 3rd International ..., 2010 - ieeexplore.ieee.org

... and runtime envoronment for the **application**, translates it into ... two **parts**: **superblock** code cache and non-**superblock** code ... This **feature** is rather common in compute-intensive programs...

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Decoding the APFS file system

KH Hansen, F Toolan - Digital Investigation, 2017 - Elsevier

... 't see the container but the volumes in the Finder **application**. ... **Another feature** in APFS is that of data cloning. When ... Checkpoint **Superblock** ID, while the data **section** typically ...

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Breaking the cycle. A renovation project at the edge of eixample in Barcelona

J XU, Y ZHAO, Y LIU - 2020 - politesi.polimi.it

... for urban regeneration that will leave behind **more** than a century of hermeticism. Today, La ... The **superblock** (in physical terms) is composed of a set of basic roads forming a polygon or ...

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Sustainability and urban sprawl: Alternative scenarios for a Bangkok **superblock**

S Sintusingha - Urban Design International, 2006 - Springer

... cities towards a **more** sustainable future? This paper illustrates **application** of an alternative ... ' (Figure 2) whereby cultural and societal **functions** and practices are mediated towards a ...

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Scmfs: A file system for storage class memory and its extensions

X Wu, S Qiu, AL Narasimha Reddy - ACM Transactions on Storage (TOS ..., 2013 - dl.acm.org

... flushing dirty data, while Conquest **uses** it to store the file system ... The first **part**, as in regular file systems, is the **superblock**, ... **Another functionality** we **add** is to support extending the file ...

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Syntax and parametric analysis of **superblock** patterns

J Peponis, C Feng, D Green, D Haynie ... - The Journal of ..., 2015 - nrl.northumbria.ac.uk

... **other** copyright owners. Single copies of full items can be reproduced, displayed or performed, and given to **third parties** ... local area to **another** which is not in an adjacent **superblock** are ...

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Smart red belly blockchain: Enhanced transaction management for decentralized **applications**

D Tennakoon, V Gramoli - arXiv preprint arXiv:2207.05971, 2022 - arxiv.org

... and then describe its **functionality** through the transaction life ... , to form a **superblock** we require SRBB to execute **more** than ... n = 4, whereas its **third** column indicates the gain obtained in ...

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Sentinel scheduling for VLIW and superscalar processors

SA Mahlke, WY Chen, WMW Hwu, BR Rau... - Proceedings of the fifth ..., 1992 - dl.acm.org

... In this paper, a set of architectural **features** and compile-time scheduling support referred to as sentinel scheduling is introduced. Sentinel scheduling provides an effective framework for ...

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Industrial **applications** of ultrahigh definition video coding with an optimized supersample adaptive offset framework

M Wang, W Xie, J Zhang, J Qin - IEEE Transactions on ..., 2020 - ieeexplore.ieee.org

... of **superblock** paradigm, whose size is up to 256 × 256. ... , three **features** are extracted, where the first-two **features** are ... However, we believe that there are at least two ways to **further** ...

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Improved error reporting for software that **uses** black-box components

J Ha, CJ Rossbach, JV Davis, I Roy... - Proceedings of the 28th ..., 2007 - dl.acm.org

... **more** precise information about their error and how to resolve it. The machine learning classifier **uses features** from ... on 81 behavior classes—about one **third** of all possible LaTeX errors. ...

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The velvet path to superlight blockchain clients

A Kiayias, A Polydouri, D Zindros - Proceedings of the 3rd ACM ..., 2021 - dl.acm.org

... Next, we put forth the first provably secure velvet **superblock** ... Towards that goal, the **superblock** approach **uses** superblocks ... The crucial **feature** is that it is not missing any superblocks. ...

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QuaL^{2}M: Learning Quantitative Performance of Latency-Sensitive Code

A Sathanur, NR Tallent, P Konsor ... - 2022 IEEE ..., 2022 - ieeexplore.ieee.org

... We demonstrate a novel **application** of the PMU's last branch ... We **further** transform each **feature** by a min-max scalar to ... **superblock**'s by ensuring PMU cycle and instruction **features** ...

☆ Save 99 Cite Cited by 1 Related articles All 2 versions

Density-matrix renormalization group methods for momentum-and frequency-resolved dynamical correlation **functions**

E Jeckelmann - Progress of Theoretical Physics Supplement, 2008 - academic.oup.com

... to higher-order dynamic response **functions** such as **third**-order optical polarizabilities. ... is much **more** accurate than the Lanczos-vector DMRG method, which **uses** the same **superblock** ...

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Urban design guidelines as design control instrument with a case study of the Silver Triangle **Superblock**, Jakarta

HW Poerbo - 2001 - kluedo.ub.rptu.de

... The **third** and last set of questions concentrates on the ... as an integrated **superblock** serves as an example for the **application** of ... is high, **functions** such as market and workplace are **more** ...

☆ Save 99 Cite Cited by 23 Related articles All 6 versions »

Theory and **applications** of the analytic element method

ODL Strack - Reviews of Geophysics, 2003 - Wiley Online Library

... , including a description of the **superblock** approach, which makes it ... **functions** are only **part** of the solution; they are combined with ... as the code is enhanced and new **features** are **added**. ...

☆ Save 99 Cite Cited by 126 Related articles All 4 versions »

StegFS: A steganographic file system for Linux

AD McDonald, MG Kuhn - ... Hiding' **Third** International Workshop, IH'99 ..., 2000 - Springer

... The Linux VFS **uses** generic inode and **superblock** structures ... We augmented the **superblock** structure by a number of addi... , a pointer to the cipher **functions** structure and the block-table ...

☆ Save 99 Cite Cited by 213 Related articles All 20 versions »

mSSL: extending ssl to support data sharing among collaborative clients

J Li, X Kang - 21st Annual Computer Security Applications ..., 2005 - ieeexplore.ieee.org

... an authentic **superblock** of a data object, it then **uses** the ... presented in this paper, **other functionalities** may also be ... avoids the reliance on a trusted **third party**. It allows the server to issue ...

☆ Save 99 Cite Cited by 5 Related articles All 10 versions

Superblock-based performance optimization for Sunway Math Library on SW26010 many-core processor

H Cao, S Guo, J Hao, Y Xia, J Xu - The Journal of Supercomputing, 2022 - Springer

... using a novel tail duplication algorithm, and then **uses** code ... improvement of these **functions** is the focus of our next work. ... Intuitively, list scheduling takes **more** time than **superblock** ...

☆ Save 99 Cite Related articles All 3 versions

{ChainPatrol}: Balancing Attack Detection and Classification with Performance Overhead for Service Function Chains Using Virtual Trailers

M Oqaily, H Purohit, Y Jarraya, L Wang... - 33rd USENIX Security ..., 2024 - usenix.org

... **functions** from proprietary physical boxes, Network **Functions** ... We believe this concept may potentially find **other applications** ... of any block of the next **SuperBlock**, so we will know how to ...

☆ Save 99 Cite Related articles All 4 versions »

Linux device drivers

J Corbet, A Rubini, G Kroah-Hartman - 2005 - books.google.com

... inode, directory, file, and **superblock**. It's quite unusual for a ... , you know that an **application** can call **functions** it doesn't ... This **section** provides **more** detail on how a module author ...

☆ Save 99 Cite Cited by 1548 Related articles All 18 versions »

Redesigning China's **superblock** neighbourhoods: Policies, opportunities and challenges

HY Kan, A Forsyth, P Rowe - Journal of Urban Design, 2017 - Taylor & Francis

... Finally, it is much **more** difficult to convert **part** or the entirety of the ... of **uses** because of the predominantly residential **functions** occupying these bounded developments. The **superblock** ...

☆ Save 99 Cite Cited by 67 Related articles All 7 versions »

Use of the **Superblock** model for promoting physical activity in Barcelona: a one-year observational comparative study

A Puig-Ribera, I Arumí-Prat, E Cirera, M Solà... - Archives of public ..., 2022 - Springer

... visitor characteristics during the first year of **application** are ... tailored to the residents demographic **features** and the patterns of ... The images or **other third party** material in this article are ...

☆ Save 99 Cite Cited by 6 Related articles All 14 versions

Advanced system modelling and simulation with block diagram languages

NM Karayanakis - 1995 - books.google.com

... **feature** in block languages (see **Section** 1.4.2). Cases in pooint are ACSL's PowerBlock, Extend's hierarchical block, the **SuperBlock** of ... context of aerospace **applications** (when reading ...

☆ Save 99 Cite Cited by 38 Related articles All 3 versions »

Development and **application** of an efficient, multiblock 3-D large eddy simulation tool for jet noise

CS Martha, Y Situ, M Louis, G Blaisdell... - 50th AIAA Aerospace ..., 2012 - arc.aiaa.org

... in **Section** III; the implementation details of the **superblock**-... In **addition**, in **section** VI, we perform a full simulation using ~... **part** of the LES, we have developed the multiblock **capability** ...

☆ Save 99 Cite Cited by 15 Related articles »

C^4: A Real-Time Object Detection Framework

J Wu, N Liu, C Geyer, JM Rehg - IEEE transactions on image …, 2013 - ieeexplore.ieee.org

… We also compare CENTRIST and **other features** in Sec. III-C. … We use a **superblock** as a **part**. Thus, the C4 framework … In fact, if we do not restrict ourselves to **application** scenarios …

☆ Save Cite Cited by 61 Related articles All 10 versions

The **Superblock**: An E ective Technique for VLIW and Superscalar Compilation

WH Wen-mei, SA Mahlke, WY Chen, PP Chang, … - eecs.umich.edu

… An important **feature** of **superblock** enlarging optimizations is … allows the **superblock** scheduler to exploit much **more** of the … Trace selection for compiling large C **application** programs to …

☆ Save Cite Related articles »

Mixed-criticality embedded systems--a balance ensuring partitioning and performance

M Paulitsch, OM Duarte, H Karray... - ... on Digital System ..., 2015 - ieeexplore.ieee.org

... of failed **functions** due to possible cascading effects to **other functions**. ... defined **superblock** phases, instead it allows resource requests at any point in time. Finally, the hybrid model **uses** ...

☆ Save 99 Cite Cited by 52 Related articles All 4 versions

Designing the **superblock**: a model for Taipei redevelopment

LP Wang - 1996 - dspace.mit.edu

... fit one or **more** particular situations in a Taipei **superblock**. Both ... urban land over to public **uses**. Therefore, government ... which vary in scale and **functions**. The highest level comprises ...

☆ Save 99 Cite Cited by 2 Related articles All 2 versions »

Dynamic parallelization and mapping of binary executables on hierarchical platforms

E Yardimci, M Franz - Proceedings of the 3rd Conference on Computing ..., 2006 - dl.acm.org

... benefit from the **superblock**-based granularity of our system. ... an identified loop back to the **application** if all stores in the ... processing element, a **capability** supported by most modern ...

☆ Save 99 Cite Cited by 45 Related articles All 2 versions

Coscheduling of cpu and i/o transactions in cots-based embedded systems

R Pellizzoni, BD Bui, M Caccamo... - 2008 Real-Time Systems ..., 2008 - ieeexplore.ieee.org

... In general, if a task is tested with M different input vectors, then M different **functions** must be ... case number of cache misses for each **superblock**. Our implementation **uses** the Intel Core ...

☆ Save 99 Cite Cited by 111 Related articles All 6 versions

Using OpenMP superscalar for parallelization of embedded and consumer **applications**

M Andersch, CC Chi, B Juurlink - ... International Conference on ..., 2012 - ieeexplore.ieee.org

... **functions** as tasks using the omp task input output inout pragmas. When these annotated **functions** are called, they are **added** ... an arbitrary picture and **superblock** sizes. To overcome this ...

☆ Save 99 Cite Cited by 19 Related articles All 9 versions »

Where did my 256 gb go? a measurement analysis of storage consumption on smart mobile devices

A Bijlani, U Ramachandran, R Campbell - Proceedings of the ACM on ..., 2021 - dl.acm.org

... only a small fraction of **apps/features** are actively used and ... **apps** grew **more** in size on average, compared to **other apps**. ... that **apps** rely on **third-party** SDKs for a host of **functionality**, ...

☆ Save 99 Cite Cited by 11 Related articles All 8 versions »

Efficient incremental code update for sensor networks

RK Panta, S Bagchi, SP Midkiff - ACM Transactions on Sensor Networks ..., 2011 - dl.acm.org

... blocks a **superblock** and the largest **superblock** the maximal ... 2, where some **functions** are shifted due to the **addition** of few ... the maximal **superblock** but without the **application**-level ...

☆ Save 99 Cite Cited by 60 Related articles All 4 versions

SCMFS: A file system for storage class memory

X Wu, ALN Reddy - Proceedings of 2011 International Conference for ..., 2011 - dl.acm.org

... flushing dirty data, while Conquest **uses** it to store the file system ... **Third**, we **add** a set of memory allocation/deallocation ... We also have some **other functions**, such as nvmalloc expand() ...

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Crafting a planning issue with citizens in the context of planning competition: a case of 'Nordic **Superblock**'

J Sjöblom, J Kuoppa, M Laine, E Alatalo - Journal of Urban Design, 2021 - Taylor & Francis

... Still, the brief set the aims of mixing various **functions**, promoting the emergence of ... **Superblock** of Hiedanranta **uses** the power of the new scale of cooperation to create better and **more** ...

☆ Save 99 Cite Cited by 14 Related articles All 9 versions »

Impact of Path Profile Estimation on **Superblock** Formation

J Pang, J Sun - Citeseer

... and proceeds to **another** block, such as in the **third** example in ... error (since it **uses** the imperfect partial paths as the input). ... **Another** interesting **feature** to note in Figure 6 is that perfect ...

☆ Save 99 Cite Related articles All 2 versions »

A **superblock**-based flash translation layer for NAND flash memory

JU Kang, H Jo, JS Kim, J Lee - Proceedings of the 6th ACM & IEEE ..., 2006 - dl.acm.org

... age medium because of its versatile **features** such as nonvolatility, ... block scheme, the log block scheme **uses** an out-of-place ... **Another** advantage of using the **superblock** is that we can ...

☆ Save 99 Cite Cited by 506 Related articles All 11 versions »

Region-based compilation: An introduction and motivation

RE Hank, WMW Hwu, BR Rau - Proceedings of the 28th ..., 1995 - ieeexplore.ieee.org

... Consider the **application** of **superblock** formation and ... 13 operations, one **more** than the original **superblock** loop de... **application** of this algorithm to aggressively inlined **functions**. ...

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Better global scheduling using path profiles

C Young, MD Smith - Proceedings. 31st Annual ACM/IEEE ..., 1998 - ieeexplore.ieee.org

... , this **section** describes how we have adapted the **superblock** ... us to predict that this **additional capability** will not noticeably ... at the first **superblock** head (ie enlargement **uses** only tail-...

☆ Save 99 Cite Cited by 78 Related articles All 8 versions

Logchain: Blockchain-assisted log storage

W Pourmajidi, A Miranskyy - 2018 IEEE 11th International ..., 2018 - ieeexplore.ieee.org

... The client enables auto-scaling **feature** provided by the ... 20% **extra** memory space to the deployed **application**. Imagine ... be submitted to a new **Superblock**, defined in **Section** III-A6. One ...

☆ Save 99 Cite Cited by 81 Related articles All 6 versions

Understanding and optimizing persistent memory allocation

W Cai, H Wen, HA Beadle, C Kjellqvist ... - Proceedings of the ..., 2020 - dl.acm.org

... in different **applications** (or instances of the same **application** ... free list within the **superblock** again **functions** as a Treiber ... that filter **functions** may be a useful mechanism in **other** (eg, ...

☆ Save 99 Cite Cited by 59 Related articles All 16 versions »

Superblock-based source code optimizations for WCET reduction

P Lokuciejewski, T Kelter... - 2010 10th IEEE ..., 2010 - ieeexplore.ieee.org

... Real **applications** typically consist of **more** than one path, ... perform **superblock** optimizations in decreasing order of the **functions**' ... 4th **superblock** formation including the **application** of the ...

☆ Save 99 Cite Cited by 14 Related articles All 5 versions

Squeezenas: Fast neural architecture search for faster semantic segmentation

A Shaw, D Hunter, F Landola... - Proceedings of the IEEE ..., 2019 - openaccess.thecvf.com

... 's decoder **uses** the low resolution **feature** maps from the encoder to perform **more** computation and ... In this example, the 1st **superblock uses** candidate block 1, the 2nd **superblock uses** ...

☆ Save 99 Cite Cited by 91 Related articles All 7 versions »

Public space and the green city: Conflictual narratives of the **superblock** programme in Poblenou, Barcelona

L Frago, T Graziano - Journal of Urban Regeneration & ..., 2021 - ingentaconnect.com

... In the **third section**, we present the case study area and the ... by 22@ to change urban **uses** towards tertiary ones. Many of ... It is seen how the **other** urban **functions** articulating urban life, ...

☆ Save 99 Cite Cited by 16 Related articles All 7 versions

Ext4

R Nordvik - Mobile Forensics–The File Format Handbook ..., 2022 - Springer

... After the **superblock** we can find the group descriptor, which ... The journal is described as an **application**-level **feature** [10, p... The images or **other third party** material in this chapter are ...

☆ Save 99 Cite Cited by 3 Related articles »

Walking the superblocks: Street layout efficiency and the sikkak system in Abu Dhabi

M Scoppa, K Bawazir, K Alawadi - Sustainable cities and society, 2018 - Elsevier

... In **addition**, while they still **feature** predominantly windowless ... In this paper, the plots centroids in each **superblock** were ... studied **superblock** represents an almost ideal **application** of PRD...

☆ Save Cite Cited by 64 Related articles All 4 versions

System support for automatic profiling and optimization

X Zhang, Z Wang, N Gloy, JB Chen .. - ACM SIGOPS Operating ..., 1997 - dl.acm.org

... the **application** of three code layout optimizations, we **further** ... They use the resulting information to drive a **superblock** ... **applications** is to implement a large number of **features** and ...

☆ Save 99 Cite Cited by 270 Related articles All 13 versions

Ext2 Filesystem Support for HelenOS

M Sucha - helenos.org

... **part** of the triples identifies device handle the filesystem **uses** ... The position is split between **third** and fourth argument as it is ... In **addition** to **functions** for reading the **superblock** from disk, ...

☆ Save 99 Cite Related articles »

Androstep: Android storage performance analysis tool

S Jeong, K Lee, J Hwang, S Lee, Y Won - Software Engineering 2013 .. , 2013 - dl.gi.de

... This **section further** analyzes limitation of existing tools. ... blocks are blocks harboring a **superblock**, group descriptor, data ... **features** available in different benchmark **applications**. The ...

☆ Save 99 Cite Cited by 58 Related articles All 8 versions »

Smart redbelly blockchain: Reducing congestion for web3

D Tennakoon, Y Hua, V Gramoli - 2023 IEEE International ..., 2023 - ieeexplore.ieee.org

... SRBB **uses** the **superblock** optimization [7] of the Red Belly ... smart contract invocations that invoke **functions** in uploaded smart ... [7] for **more** details on the consensus and the **superblock** ...

☆ Save 99 Cite Cited by 14 Related articles All 5 versions

Picfs: The privacy-enhancing image-based collaborative file system

C Sosa, BC Sutton, HH Huang - 2010 IEEE 16th International ..., 2010 - ieeexplore.ieee.org

... **Third**, we address the logistics of finding a large number of ... PicFS **further** combines the **other functions** of the **superblock** into an ... Our implementation **uses** an even safer value of 2 KB; ...

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The decentralized file system Igor-FS as an **application** for overlay-networks

K Kutzner - 2008 - scholar.archive.org

... one the file system IgorFS presented in the **third part**. ... , hash **functions** are required to have the following **additional** ... **Superblock** The **superblock** collects all important information ...

☆ Save 99 Cite Cited by 17 Related articles All 2 versions »

The everyday politics of urban transformational adaptation: Struggles for authority and the Barcelona **superblock** project

C Zografos, KA Klause, JJT Connolly, I Anguelovski - Cities, 2020 - Elsevier

... **Third**, while incremental urban adaptation might solely aim at ... social interaction and mixed **uses** in public spaces have ever ... planning later integrates **more** defined benefits or **features** (ie...

☆ Save 99 Cite Cited by 129 Related articles All 5 versions

Understanding multimedia **application** characteristics for designing programmable media processors

JE Fritts, WH Wolf, B Liu - Media Processors 1999, 1998 - spiedigitallibrary.org

... what architectural **features** are feasible, and the **application**driven ... The **third** compilation **uses** the **superblock** method for speculative ... of multimedia **applications** on a **more** global scale. ...

☆ Save 99 Cite Cited by 101 Related articles All 14 versions

Hardware and **application** profiling tools

T Janjusic, K Kavi - Advances in Computers, 2014 - Elsevier

... To visualize these **features**, we provide diagrams that ... built on top of **other** platforms have some common **functionalities**. ... The Cachegrind tool comes with a **third-party** annotation tool that ...

☆ Save 99 Cite Cited by 7 Related articles All 4 versions

... infrastructure for reduced-scaling electronic structure methods. I. An efficient and simple linear scaling local MP2 method that **uses** an intermediate basis of ...

P Pinski, C Riplinger, EF Valeev... - The Journal of chemical ..., 2015 - pubs.aip.org

... locality of the basis **functions** and domain density fitting approximation. A novel **feature** of our approach ... It arises when a function f i r is expanded in terms of a set of **other functions** φ r , ...

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ADDING NTFS SUPPORT TO ANDROID OPERATING SYSTEM VIA KERNEL

GV Garje, T Bhagwat, A Kale, S Kulkarni, M Patil - academia.edu

... ROM needs to be installed to avail the NTFS **functionality**. ... won't require any **third party applications** to perform basic read/... contains a pointer to its VFS **superblock** read routine. These '...

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Multi-objective optimisation of Urban Form: a framework for selecting the optimal solution

M Showkatbakhsh, M Makki - Buildings, 2022 - mdpi.com

... is the **application** of the algorithm, and the **third** is selecting ... , evolving an imaginative urban **superblock** modelled after a high... one function usually exhibits poor fitness for **other functions**. ...

☆ Save 99 Cite Cited by 20 Related articles All 6 versions »

A gas-efficient superlight bitcoin client in solidity

S Daveas, K Karantias, A Klaylas ... - Proceedings of the 2nd ... , 2020 - dl.acm.org

... For many **applications**, a richer set of **functionalities** is ... (4) We demonstrate that **superblock** NIPoPoWs are practical, ... Towards that goal, the **superblock** approach **uses** superblocks as ...

☆ Save 99 Cite Cited by 21 Related articles All 3 versions »

The potential of implementing superblocks for multifunctional street use in cities

S Eggimann - Nature sustainability, 2022 - nature.com

... cars to enable alternative **uses** for improving liveability and ... In **addition**, the suitability of **superblock** potentials concerning ... **superblock** may, however, not provide the same **functionality**. ...

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AutoFDO: Automatic feedback-directed optimization for warehouse-scale **applications**

D Chen, DX Li, T Moseley - ... of the 2016 International Symposium on ... , 2016 - dl.acm.org

... Copyrights for **third-party** components of this work must be ... the extended source location of **other functions**, nor will compiler ... edge profiles to drive a **superblock** scheduler. Rather than ...

☆ Save 99 Cite Cited by 131 Related articles All 9 versions

Mobile Forensics--The File Format Handbook: Common File Formats and File Systems Used in Mobile Devices

C Hummert, D Pawlaszczyk - 2022 - books.google.com

... APFS **uses** different kinds of superblocks, and the first we find is the Container **Superblock** (... The APFS does not use a journal, instead it **uses** a **feature** called Atomic Safe-Save (ASS) ...

☆ Save 99 Cite Cited by 20 Related articles All 4 versions »

Reassembling linux-based hybrid raid

JH Choi, J Park, S Lee - Journal of Forensic Sciences, 2020 - Wiley Online Library

... In **other** words, hybrid RAID **uses** RAID **superblock** and LVM to ... In the **third part**, the BVD is generated using the parameters ... **other** reassembly tools do not offer this **feature**, so **more** ...

☆ Save 99 Cite Cited by 7 Related articles All 6 versions »

EddySuperblock: Improving NAND flash efficiency and lifetime by endurance-driven dynamic **superblock** management

W Zhang, Z Dong, Y Zhu - IEEE Transactions on Very Large ... , 2021 - ieeexplore.ieee.org

... **Third**, to unlock the lifetime potential of each physical page, ... **More** than this, we present the **application** status of this work ... the **capability** of the proposed scheme under **more** different ...

☆ Save 99 Cite Cited by 2 Related articles All 2 versions

Revisiting data hiding techniques for apple file system

T Göbel, J Türr, H Baier - … of the 14th International Conference on …, 2019 - dl.acm.org

… Finally, we evaluate the **functionality** of the new hiding techniques by … is the **Superblock** Slack technique which **uses** both types of … **Another** potential Container **Superblock**-based hiding …

☆ Save 99 Cite Cited by 13 Related articles All 3 versions

A survey of address translation technologies for flash memories

D Ma, J Feng, G Li - ACM Computing Surveys (CSUR), 2014 - dl.acm.org

… Traditional **applications** usually assume that the latencies of … In this **section**, major **functionalities** of the FTL are introduced… Unlike **other** log-based hybrid FTLs, **Superblock** FTL keeps …

☆ Save 99 Cite Cited by 141 Related articles All 11 versions

Connectivity in **superblock** street networks: Measuring distance, directness, and the diversity of pedestrian paths

M Scoppa, R Anabtawi - Sustainability, 2021 - mdpi.com

... to one **another**, and to the **superblock** corners? Lastly, the ... As a result of this long-term **application** of superblocks, Abu ... and in SB8 which also **features** an introverted street design pattern...

☆ Save 99 Cite Cited by 18 Related articles All 8 versions »

Faster & strong: string dictionary compression using sampling and fast vectorized decompression

R Lasch, I Oukid, R Dementiev, N May, SS Demirsoy... - The VLDB Journal, 2020 - Springer

... alternative version of BRPFC that **uses** sampling to speed up compression... the target size of the **superblock**, we evaluate this in Sect. 5. ... From now on, we assume that this **functionality** is ...

☆ Save 99 Cite Cited by 8 Related articles All 8 versions

CollaChain: A BFT collaborative middleware for decentralized **applications**

D Tennakoon, Y Hua, V Gramoli - arXiv preprint arXiv:2203.12323, 2022 - arxiv.org

... our **superblock** implementation. We observed that consuming each resource one after **another**... DIABLO is a benchmark suite for blockchains that **features** DApps written in different smart ...

☆ Save 99 Cite Cited by 9 Related articles All 4 versions »

Finding a needle in haystack: Facebook's photo storage

D Beaver, S Kumar, HC Li, J Sobel... - 9th USENIX Symposium on ..., 2010 - usenix.org

... **other application** metadata, such as the logical volume where each photo resides and the logical volumes with free space. The Cache **functions** ... consisting of a **superblock** followed by a ...

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The Role of Experiential Marketing Towards Purchase Intention in Vertical Building Property Mediated by Brand Image and Brand Awareness

A Raditya, E Hanania, FH Nahar - Jurnal Aplikasi Manajemen, 2024 - jurnaljam.ub.ac.id

... This research **uses** a quantitative design using SEM-PLS analysis. The population in this ... , **additional features** are needed in the form of maps and videos of the location, **superblock** area ...

☆ Save 99 Cite Cited by 1 Related articles All 2 versions »

Expansion patterns of walking activity spaces in **superblock** neighbourhoods based on mHealth data from Jamsil

H Lee, S Park - Local Environment, 2025 - Taylor & Francis

... **feature** of the bounded **superblock** neighbourhood is the separation of pedestrians and high-speed vehicles, by prioritising pedestrians within the **superblock** ... **application** may be **more** ...

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Clotho: Transparent Data Versioning at the Block I/O Level.

M Flouris, A Bilas - MSST, 2004 - Citeseer

... The Device **Superblock** (DSB) is a small table containing ... We envision that such **functionality** can be provided by **other** ... size **uses** 82 MBytes of inmemory metadata, the dirty **parts** of ...

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Complexity and compression efficiency analysis of *libaom* AV1 video codec

I Bender, A Borges, L Agostini, B Zatt, G Correa ... - Journal of Real-Time ..., 2023 - Springer

... the AV1 **superblock** partitioning structures are **more** complex ... means that some **functions** are used in **more** than one coding ... In **other** words, libaom **uses** configuration 08 as default for ...

☆ Save 99 Cite Cited by 10 Related articles All 6 versions »

SERS as a bioassay platform: fundamentals, design, and **applications**

MD Porter, RJ Lipert, LM Siperko, G Wang... - Chemical Society ..., 2008 - pubs.rsc.org

... **Another part** of the process identifies the optimal blocking agent... (eg, BSA, HSA, **Superblock**, and casein) to determine the ... pathways to **more** effectively exploit this **capability** represents ...

☆ Save 99 Cite Cited by 681 Related articles All 12 versions

Submitted for the BSc in Computer Science with Games Development April 2011

M Harris - Development, 2011 - anonymoustipster.com

... Each mapping is done using a 'BlockDefinition' which is a struct the **SuperBlock uses** to ... **feature** spot is an NxN grid of offset values which deform the terrain of a **SuperBlock** into a **more** ...

☆ Save 99 Cite Related articles »

Succinct representations of permutations and **functions**

JI Munro, R Raman, V Raman - Theoretical Computer Science, 2012 - Elsevier

... give a number of **further applications** in text indexing ... a **superblock** in the graph representing the inter-**superblock** pointers is **more** than lg n), then we store a bit vector for that **superblock** ...

☆ Save 99 Cite Cited by 97 Related articles All 12 versions

Optimized succinct data structures for massive data

S Gog, M Petri - Software: Practice and Experience, 2014 - Wiley Online Library

... We improve on **functions** rank and select, which are the ... If r < log 4 n, we call the **superblock** short, and it is **further** ... method (BW) that **uses** two small **additional** lookup tables and a ...

☆ Save 99 Cite Cited by 116 Related articles All 10 versions »

An Implementation of a Log-Structured File System for UNIX.

M Seltzer, K Bostic, MK McKusick, C Staelin - USENIX Winter, 1993 - usenix.org

... to provide additional **functionality** such as embedded ... To provide **more** robust recovery we replicate the **superblock** ... EFS **uses** the same source code as FFS plus an **additional** ...

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Generic IoT Terminal For Program A SOC

WMD Sajini, CR De Silva - researchgate.net

... In the **third section**, it discusses the limitations of existing tools and technologies. Then, it ... NodeRED **functionalities** using a NodeJS **application Another** known limitation is the Watson ...

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Static branch frequency and program profile analysis

Y Wu, JR Larus - Proceedings of the 27th annual international ..., 1994 - dl.acm.org

... **Another** technique **uses** these predictions to estimate the ... frequently executed blocks, edges, and **functions** identified ... **Third**, our experiments used the hit rates reported in Ball and Larus' ...

☆ Save 99 Cite Cited by 291 Related articles All 21 versions »

The neighborhood concept: a retrospective of physical design and social interaction

NN Patricios - Journal of Architectural and Planning Research, 2002 - JSTOR

... himself "with those **features** of phys which **add** to or detract ... Bauer, was **another** critic pointing to t **application** of ideas of ... the mindless **application** of the **superblock** and neighborhood ...

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File systems unfit as distributed storage backends: lessons from 10 years of Ceph evolution

A Aghayev, S Weil, M Kuchnik, M Nelson ... - Proceedings of the 27th ..., 2019 - dl.acm.org

... to **applications** results in significantly better performance [31... The **superblock** is stored at a fixed offset and contains an inode for ... In this **section** we describe new **features** implemented in ...

☆ Save 99 Cite Cited by 130 Related articles All 9 versions

UnderTracker: Generating Robust Binaries Using Execution Flow Traces

RK Shrivastava, C Hota - Information Systems Frontiers, 2021 - Springer

... In the **third** step, we collect all basic blocks containing dominator blocks as a **superblock**. ... **Another feature** is that it **uses** required jump labels for verification and protection to ensure ...

☆ Save 99 Cite Cited by 2 Related articles All 6 versions »

Mobiflage: Deniable storage encryptionfor mobile devices

A Skillen, M Mannan - IEEE Transactions on Dependable and ..., 2013 - ieeexplore.ieee.org

... We create two adjacent volumes: a userdata volume for **apps** ... the PDE unfriendly **features** discussed in **Section** 3.2. The exact ... Due to the ignorant backup **superblock** policy, we instead ...

☆ Save 99 Cite Cited by 55 Related articles All 9 versions

Forensic apfs file recovery

J Plum, A Dewald - Proceedings of the 13th International Conference on …, 2018 - dl.acm.org

... For all **other uses**, contact the owner/author(s). ... The container **superblock** starts, like every **other** file system object with the ... , there are various specific **features** of APFS, for which **further** ...

☆ Save Cite Cited by 22 Related articles

Towards the Post-Pandemic (Healthy) City: Barcelona's Poblenou **Superblock** Challenges and Opportunities

F Camerin, LMF Fabris - ... 2. Housing and ..., 2021 - bristoluniversitypressdigital.com

... This chapter engages with a specific **feature** of existing ... The first **application** of the **Superblock** concept took place in ... As **other** chapters in this volume articulate, this is particularly ...

☆ Save 99 Cite Cited by 5 Related articles All 7 versions »

A hardware filesystem implementation for high-speed secondary storage

AA Mendon, R Sass - 2008 International Conference on ..., 2008 - ieeexplore.ieee.org

... also provide many **more** advanced **features** such as file editing, ... Our Filesystem only **uses** direct and single indirect pointers. ... In our current implementation, the **Superblock** is 4 blocks ...

☆ Save 99 Cite Cited by 16 Related articles All 11 versions

Sinfonia: a new paradigm for building scalable distributed systems

MK Aguilera, A Merchant, M Shah, A Veitch ... - ACM SIGOPS ..., 2007 - dl.acm.org

... This is because database systems provide **more functionality** ... **applications** in this paper, but they may be useful for **other** ... The **superblock** has static information about the entire volume, ...

☆ Save 99 Cite Cited by 402 Related articles All 35 versions

Deniable File System--**Application** of Deniable Storage to Protection of Private Keys

B Oler, I El Fray - ... and Industrial Management **Applications** ..., 2007 - ieeexplore.ieee.org

... Speed is only a "nice to have" **feature** which unfortunately very ... Physical location of the **superblock** is used to create IV ... On the **other** hand, when a file is deleted, random data is written ...

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The demikernel datapath os architecture for microsecond-scale datacenter systems

I Zhang, A Raybuck, P Patel, K Olynyk... - Proceedings of the ..., 2021 - dl.acm.org

... memory and reference counting: the **superblock** header holds reference counts and meta-... storage **features**. While it works well for our logging-based **applications**, we expect that **more** ...

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Fathom: Understanding Datacenter **Application** Network Performance

MA Qureshi, J Yan, Y Cheng, SH Yeganeh ... - Proceedings of the ..., 2023 - dl.acm.org

... For all **other uses**, contact the owner/author(s). ACM SIGCOMM '... (eg, by Dapper), Fathom **uses** this **feature** to request timestamps at ... We observe that the faster-speed Pf **superblock** has ...

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Practice in Japan: The Hidden Floor

X Chen - Supergrid and **Superblock**, 2022 - taylorfrancis.com

... When the broad categories of **functions** are broken down **further**, we find that some specific building **uses** favour particular locations in both superblocks, the most obvious being: (1) ...

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Enabling NIPoPoW **applications** on bitcoin cash

K Karantias - Master's thesis. University of Ioannina, Ioannina ..., 2019 - gtilocker.com

... , for every **superblock** level we keep a pointer to the most recent **superblock** of that level. The ... bcash offers **more functionality** for nodes such as JSON-RPC and HTTP APIs, which we will ...

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Scalable lock-free dynamic memory allocation

MM Michael - Proceedings of the ACM SIGPLAN 2004 conference on ..., 2004 - dl.acm.org

... Dynamic memory allocation **functions**, such as malloc and free, ... In **addition**, our allocator **uses** a simpler and finer grained or- ... Each **superblock** contains one or **more** blocks of the same ...

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Implementation of snapshot **capability** within LVM Radix Targets

A Sinha - anirban.org

... system administrator much **more** flexibility in allocating storage to **applications** and users. ...
1: Radix **superblock**-keeps a magic number that shows that it'sa valid **superblock**. 2: Radix ...

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/432,148	**02/13/2025 04:41:20 PM Z ET**	**DAMA60-35891**

Title of Invention

SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5745	FILED BY	Keith Harden
PATENT CENTER #	69177887	FILING DATE	02/05/2024
CUSTOMER #	25883	FIRST NAMED INVENTOR	Sivakumar CHATURVEDI
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
petition-request.pdf	3	Terminal Disclaimer-Filed (Electronic)	47 KB
grantLetter.pdf	1	Terminal Disclaimer-Electronic-Approved	18 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
petition-request.pdf	9D7F1F8E72ACE6E557FE8F5AD21E35F1A967EBF2ABBC5C8E543D6B258F62296E549864D776FD72154DD11073DFB64CA88BE159036F8C577062DA66944CE240A0

grantLetter.pdf

004700D815622E3EBE1FF8D3E93156636D97AD80C3B94D962
013E2A99ED79FDC1FDA18E87CAB8E58CAF36181B6613A856
7CA0AB3F4C063586AFE09902307DC7E

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New Applications Under 35 U.S.C. 111

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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.

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/432,148	**02/13/2025 04:41:20 PM Z ET**	**DAMA60-35891**

Title of Invention

SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

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APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5745	FILED BY	Keith Harden
PATENT CENTER #	69177887	AUTHORIZED BY	-
CUSTOMER #	25883	FILING DATE	02/05/2024
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Sivakumar CHATURVEDI

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 500208	**E20252CG41416945**	**Keith Harden**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2814	STATUTORY DISCLAIMER, INCLUDING TERMINAL DISCLAIMER	183.00	1	183.00
			TOTAL AMOUNT:	**$183.00**

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New Applications Under 35 U.S.C. 111

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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.

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APPROVAL LETTER

APPLICATION #	FILING DATE	APPLICANT/PATENT UNDER REEXAMINATION
18/432,148	02/05/2024	Sivakumar CHATURVEDI

Title of Invention

SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

Electronic terminal disclaimer filed on 02/13/2025

Approved

This patent is subject to a Terminal Disclaimer

Approved / Disapproved by: Electronic Terminal Disclaimer automatically approved

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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A PRIOR PATENT

APPLICATION #	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET #
18432148	**02/05/2024**	**Sivakumar CHATURVEDI**	**DAMA60-35891**

Title of Invention

SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

☑	Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action
☑	This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.

Owner	Percent interest
DAMAKA, INC.	100%
Total	**100%**

The owner(s) of percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of any patent granted on pending reference Application Number(s)

Application #	Filing Date

as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and any patent granted on the reference application are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.
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Patent #
11930362
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10863357
10387220
9578092
9491233
9270744
9027032

as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

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• is held unenforceable;
• is found invalid by a court of competent jurisdiction;
• is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
• has all claims canceled by a reexamination certificate;
• is reissued; or
• is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.



Terminal disclaimer fee under 37 CFR 1.20(d) included with Electronic Terminal Disclaimer request.

Applicant claims the following entity status:
Small

I hereby declare that all statements made herein of my own knowledge are true and that all statemnts 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 Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I certify, in accordance with 37 CFR 1.4(d)(4) that I am: An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application

Signature	Name	Registration #
/Keith Harden/	Keith Harden	74472

---

* Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner). Form PTO/SB/96 may be used for making this certification. See MPEP 324.

PTO/AIA/22 (01-25)
Approved for use through 11/30/2027. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a) (NOT for Provisional Applications)

Docket Number (Optional): DAMA60-35891

Application Number: 18/432,148

Filed: February 5, 2024

For: SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

Art Unit: 2194

Examiner: Craig C. Dorais

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

	Fee	Small Entity Fee	Micro Entity Fee	
☐ One month (37 CFR 1.17(a)(1))	$235	$94	$47	$
☑ Two months (37 CFR 1.17(a)(2))	$690	$276	$138	$ 276
☐ Three months (37 CFR 1.17(a)(3))	$1,590	$636	$318	$
☐ Four months (37 CFR 1.17(a)(4))	$2,495	$998	$499	$
☐ Five months (37 CFR 1.17(a)(5))	$3,395	$1,358	$679	$

☑ Applicant asserts small entity status. See 37 CFR 1.27.

☐ Applicant certifies micro entity status. See 37 CFR 1.29.
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

☐ A check in the amount of the fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director has already been authorized to charge fees in this application to a Deposit Account.

☑ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 50-0208.

☑ Payment made via USPTO patent electronic filing system.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the

☐ applicant.

☑ attorney or agent of record. Registration number 74,472.

☐ attorney or agent acting under 37 CFR 1.34. Registration number _____.

/Keith D. Harden/ — Signature

January 27, 2025 — Date

Keith D. Harden — Typed or printed name

972-628-3600 — Telephone Number

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.

☑ * Total of ONE forms are submitted.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0031. Public burden for this form is estimated to average 6 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS**. If filing this completed form by mail, 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.

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013). https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

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5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;

6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;

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8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c));

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/432,148	**01/27/2025 09:21:50 AM Z ET**	**DAMA60-35891**

Title of Invention

SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5745	FILED BY	Keith Harden
PATENT CENTER #	68920200	AUTHORIZED BY	-
CUSTOMER #	25883	FILING DATE	02/05/2024
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Sivakumar CHATURVEDI

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 500208	**E20251Q022196838**	**Keith Harden**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2252	EXTENSION FOR RESPONSE WITHIN SECOND MONTH, EXCEPT PROVISIONAL APPLICATIONS	276.00	1	276.00
2202	EACH CLAIM IN EXCESS OF 20	80.00	35	2800.00
			TOTAL AMOUNT:	**$3,076.00**

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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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Sivakumar CHATURVEDI; Satish GUNDABATHULA; Rashmi HIREMATH
Serial No.:	18/432,148
Confirmation No.:	5745
Filed:	February 5, 2024
Group:	2194
Examiner:	CRAIG C DORAIS
For:	SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

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

Dear Sir:

AMENDMENT AND RESPONSE TO OFFICE ACTION

This communication is responsive to the Examiner's Office Action dated August 28, 2024. Reconsideration is respectfully requested.

Amendments to the Claims are reflected in the listing of claims beginning on page 2 of this paper.

Remarks/Arguments begin on page 10 of this paper.

In the Claims

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

1. (Currently Amended) A method for providing a real-time communication session over the internet for a superblock application intended for use on a computing device, the method comprising:

providing a function block for use in adding additional functionality to a third party superblock application that has its own functionality and display window, wherein the function block is configured to be compiled into the superblock application and is configured to add the additional functionality to provide the real-time communication session using one or more servers connected over the internet, and wherein the function block is configured to interact with the superblock application through one or more application programming interface (API) calls; and

enabling establishment of the real-time communication session between the one or more servers and the function block compiled into the superblock application so that the function block can provide the real-time communication session to the superblock application.

~~A computer program product in a non-transitory computer readable medium for use in a data processing system that comprises a processor coupled to a network interface, the computer program product holding computer program instructions that comprise a function block, the function block having audio/video (A/V) call functionality, the function block operative when executed by the processor to:~~

~~receive from a superblock application a request for an audio/video (A/V) service;~~

~~determine that the superblock application is authorized to access the A/V service functionality;~~

~~determine that the A/V service requires access to a resource that is external to the data processing system;~~

~~establish the A/V service between the superblock application and the resource via the network interface, wherein establishing is not otherwise supported by the superblock application;~~

~~provide video output for the A/V service to a video window within a display window associated with the superblock application, the video window displayable simultaneously with the display window of the superblock application; and~~

~~provide audio for the A/V service.~~

2. (New) The method of claim 1 wherein enabling the establishment of the real-time communication session includes signaling communications between the one or more servers and the function block.

3. (New) The method of claim 2 wherein the signaling communications include session setup, management, and teardown.

4. (New) The method of claim 2 wherein the signaling communications use Session Initiation Protocol (SIP) as a signaling protocol.

5. (New) The method of claim 1 wherein the real-time communication session uses Real-time Transport Protocol (RTP) as a data transport protocol.

6. (New) The method of claim 1 wherein enabling the establishment of the real-time communication session includes negotiating signaling and media parameters between the one or more servers and the function block.

7. (New) The method of claim 6 wherein the signaling and media parameters include a bandwidth parameter.

8. (New) The method of claim 6 wherein the signaling and media parameters include a codec parameter.

9. (New) The method of claim 1 further comprising providing an authorization key for use by the superblock application, wherein the authorization key unlocks the function block for use by the superblock application.

10. (New) The method of claim 1 further comprising providing authentication credentials for use by the superblock application, wherein the authentication credentials enable the function block to use the one or more servers for the real-time communication session.

11. (New) The method of claim 1 further comprising sending a notification from the one or more servers to the function block.

12. (New) The method of claim 11 wherein the notification requires a response and the establishment of the real-time communication session is the response to the notification.

13. (New) The method of claim 11 wherein the notification is a request to initiate the real-time communication session, and an API call indicates whether the request has been granted or denied by the superblock application.

14. (New) The method of claim 11 wherein the notification is a presence notification.

15. (New) The method of claim 14 wherein the function block is further configured to update a presence indicator within the superblock application in response to receiving the presence notification.

16. (New) The method of claim 1 further comprising receiving, by the one or more servers, a notification from the function block.

17. (New) The method of claim 1 wherein the real-time communication session is for instant messaging.

18. (New) The method of claim 1 wherein the real-time communication session is a voice call.

19. (New) The method of claim 1 wherein the real-time communication session is a

video call.

20. (New) The method of claim 1 wherein the superblock application is further adapted to operate with iOS as an operating system for the computing device.

21. (New) The method of claim 1 wherein the superblock application is further adapted to operate with Android as an operating system for the computing device.

22. (New) The method of claim 1 wherein the computing device is a cellular phone.

23. (New) The method of claim 1 wherein the computing device is a smart phone.

24. (New) The method of claim 1 wherein the computing device is a tablet.

25. (New) The method of claim 1 wherein the computing device is a personal digital assistant.

26. (New) The method of claim 1 wherein the computing device is a laptop computer.

27. (New) The method of claim 1 wherein the computing device is a desktop computer.

28. (New) A method for providing a real-time communication session over the internet for a superblock application intended for use on a computing device, the method comprising:

providing a function block for use in adding additional functionality to a third party superblock application that has its own functionality and display window, wherein the function block is configured to be compiled into the superblock application and is configured to add the additional functionality to provide the real-time communication session using one or more servers connected over the internet, and wherein the function block is configured to interact with the superblock application through one or more application programming interface (API) calls; and

providing authentication credentials for use by the superblock application, wherein the authentication credentials enable the function block to use the one or more servers to establish the

real-time communication session for the superblock application.

29. (New) The method of claim 28 further comprising enabling the establishment of the real-time communication session between the one or more servers and the function block so that the function block can provide the real-time communication session to the superblock application.

30. (New) The method of claim 29 wherein enabling the establishment of the real-time communication session includes signaling communications between the one or more servers and the function block.

31. (New) The method of claim 30 wherein the signaling communications include session setup, management, and teardown.

32. (New) The method of claim 30 wherein the signaling communications use Session Initiation Protocol (SIP) as a signaling protocol.

33. (New) The method of claim 29 wherein enabling the establishment of the real-time communication session includes negotiating signaling and media parameters between the one or more servers and the function block.

34. (New) The method of claim 33 wherein the signaling and media parameters include a bandwidth parameter.

35. (New) The method of claim 33 wherein the signaling and media parameters include a codec parameter.

36. (New) The method of claim 28 wherein the real-time communication session uses Real-time Transport Protocol (RTP) as a data transport protocol.

37. (New) The method of claim 28 further comprising providing an authorization key for use by the superblock application, wherein the authorization key unlocks the function block for use by the superblock application.

38. (New) The method of claim 28 further comprising sending a notification from the one or more servers to the function block.

39. (New) The method of claim 38 wherein the notification requires a response and the establishment of the real-time communication session is the response to the notification.

40. (New) The method of claim 38 wherein the notification is a request to initiate the real-time communication session, and an API call indicates whether the request has been granted or denied by the superblock application.

41. (New) The method of claim 38 wherein the notification is a presence notification.

42. (New) The method of claim 41 wherein the function block is further configured to update a presence indicator within the superblock application in response to receiving the presence notification.

43. (New) The method of claim 28 further comprising receiving, by the one or more servers, a notification from the function block.

44. (New) The method of claim 28 wherein the real-time communication session is for instant messaging.

45. (New) The method of claim 28 wherein the real-time communication session is a voice call.

46. (New) The method of claim 28 wherein the real-time communication session is a video call.

47. (New) The method of claim 28 wherein the superblock application is further adapted to operate with iOS as an operating system for the computing device.

48. (New) The method of claim 28 wherein the superblock application is further adapted to operate with Android as an operating system for the computing device.

49. (New) The method of claim 28 wherein the computing device is a cellular phone.

50. (New) The method of claim 28 wherein the computing device is a smart phone.

51. (New) The method of claim 28 wherein the computing device is a tablet.

52. (New) The method of claim 28 wherein the computing device is a personal digital assistant.

53. (New) The method of claim 28 wherein the computing device is a laptop computer.

54. (New) The method of claim 28 wherein the computing device is a desktop computer.

55. (New) A non-transitory computer readable medium embodying a computer program for providing a real-time communication session over the internet for a superblock application intended for use on a computing device, the computer program comprising instructions that include

a function block for use in adding additional functionality to a third party superblock application that has its own functionality and display window, wherein the function block is configured to be compiled into the superblock application and is configured to add the additional functionality to provide the real-time communication session using one or more servers connected over the internet, and wherein the function block is configured to interact with the superblock application through one or more

application programming interface (API) calls, and wherein the function block is further configured to enable establishment of the real-time communication session between the one or more servers and the function block compiled into the superblock application so that the function block can provide the real-time communication session to the superblock application.

REMARKS

Applicant has carefully reviewed the Office Action dated August 28, 2024. Applicant has amended Claim 1 and added new Claims 2-55. Claims 1-55 are now pending. No new matter is added. Reconsideration and favorable action are respectfully requested.

I. STATUTORY DOUBLE PATENTING REJECTION

Claim 1 stands rejected under 35 U.S.C. § 101 as being directed to the same invention as U.S. Patent No. 9,570,092. Applicant has amended the claims and respectfully submits that the claims of the present application are different than the claims of U.S. Patent No. 9,570,092. Therefore, Applicant respectfully requests withdrawal of the statutory double patenting rejection.

Applicant has now made an earnest attempt in order to place this case in condition for allowance. For the reasons stated above, Applicant respectfully requests full allowance of the claims as amended.

If any issues arise, or if the Examiner has any suggestions for expediting allowance of this Application, the Applicant respectfully invites the Examiner to contact the undersigned at the telephone number indicated below or at *kharden@munckwilson.com*.

Recognizing that Internet communications are not secure, Applicant hereby authorizes the USPTO to communicate with the undersigned and practitioners in accordance with 37 CFR 1.33 and 37 CFR 1.34 concerning any subject matter of this application by video conferencing, instant messaging, or electronic mail. Applicant understands that a copy of these communications will be made of record in the application file.

Please charge any additional fees or deficiencies in fees or credit any overpayment to Deposit Account No. 50-0208/DAMA60-35891.

Respectfully submitted,
MUNCK WILSON MANDALA, LLP
Attorneys for Applicant

/Keith D. Harden/
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KDH/jsr

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Fax: 972-628-3616
January 27, 2025

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/432,148	**01/27/2025 09:21:50 AM Z ET**	**DAMA60-35891**

Title of Invention

SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5745	FILED BY	Keith Harden
PATENT CENTER #	68920200	FILING DATE	02/05/2024
CUSTOMER #	25883	FIRST NAMED INVENTOR	Sivakumar CHATURVEDI
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 4

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
DAMA60-35891 AMD.pdf		11	-	119 KB
DAMA60-35891 AMD-A....pdf	(1-1)	1	Amendment/Request for Reconsideration-After Non-Final Rejection	77 KB
DAMA60-35891 AMD-CLM.pdf	(2-9)	8	Claims	91 KB
DAMA60-35891 AMD-REM.pdf	(10-11)	2	Applicant Arguments/Remarks Made in an Amendment	98 KB
DAM35891 EXT.pdf		2	Extension of Time	158 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
DAMA60-35891 AMD.pdf	3A45E85CA0EDEA91B003DAB9A942646349EF224BAEB53238 B1FBEECFE9C4FBCD676BD30629E2503CB4BE5881FE1D1105 455F19691F10CF97D25959A636CB5834
DAMA60-35891 AMD-A....pdf	CFBA7E778FCCDE763CA42D34385E63DA5C9FC6194671338D AEBD3851953F34A5B6F8A7AB7E9E4C9F568955A434687635B A146DD5AB7CD55BE7E5513A3AA45283
DAMA60-35891 AMD-CLM.pdf	8C4F2F9025D78A3E629FBD84DFD98045ACEA0478ACC7EB86 37F18FEF2017872E8E326FB14793D9B0035C5DBF6A9833DA5 E2A5B44EEE65AB209FC08365A17C866
DAMA60-35891 AMD-REM.pdf	E7F51FEDBD2097E207352C5BCA10D7729ED5014B8B49DFFD 64FB7352DB61D41DBC112DEF65108DAABA1CDB268637E6F2 79507C7193BD22C2EDA951E283E163CC
DAM35891 EXT.pdf	BF153D0FCDAED1A0CAF920625A073A004B58E789273016A32 DD72C8670B3D3E179B2C037A13E1D16C28944F22050E1DE07 B43A32BD848BF5A98F9341716E966C

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 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.

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 18/432,148	Filing Date 02/05/2024	☐ To be Mailed

ENTITY: ☐ LARGE ☑ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $40 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $192 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	01/27/2025	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 55	Minus	** 20	= 35		x $80 =	2800
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $240 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	2800

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/TRACEY M YOUNG/
*** 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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/432,148	02/05/2024	Sivakumar CHATURVEDI	DAMA60-35891	5745

25883 7590 08/28/2024
MUNCK WILSON MANDALA L.L.P
P.O. Drawer 800889
DALLAS, TX 75380

EXAMINER	
DORAIS, CRAIG C	

ART UNIT	PAPER NUMBER
2194	

NOTIFICATION DATE	DELIVERY MODE
08/28/2024	ELECTRONIC

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.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

IPdocketing@munckwilson.com
admin@dalpat.com
eofficeaction@appcoll.com

Office Action Summary	**Application No.** 18/432,148	**Applicant(s)** CHATURVEDI et al.	
	Examiner CRAIG C DORAIS	**Art Unit** 2194	**AIA (FITF) Status** Yes

-- 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 MONTHS 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 02/05/2025.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ 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*

5) ☑ Claim(s) 1 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 02/05/2024 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).

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).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

DETAILED ACTION

Double Patenting

1. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

2. A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

3. Claim 1 of this application conflict with claim 1 of Patent No. 9,570,092. 37 CFR 1.78(b) provides that when two or more applications filed by the same applicant contain conflicting claims, elimination of such claims from all but one application may be required in the absence of good and sufficient reason for their retention during pendency in more than one application. Applicant is required to either cancel the conflicting claims from all but one application or maintain a clear line of demarcation between the applications. See MPEP § 822

Instant Application **Patent No.** 9,570,092

Claim 1. A computer program product in a non-transitory computer readable medium for use in a data processing system that comprises a processor coupled to a network interface, the computer program product holding computer program instructions that comprise a function block, the function block having audio/video (A/V) call functionality, the function block operative when executed by the processor to: receive from a superblock application a request for an audio/video (A/V) service; determine that the superblock application is authorized to access the A/V service functionality; determine that the A/V service requires access to a resource that is external to the data processing system;	Claim 1. A computer program product in a non-transitory computer readable medium for use in a data processing system that comprises a processor coupled to a network interface, the computer program product holding computer program instructions that comprise a function block, the function block having audio/video (A/V) call functionality, the function block operative when executed by the processor to: receive from a superblock application a request for an audio/video (A/V) service; determine that the superblock application is authorized to access the A/V service functionality; determine that the A/V service requires access to a resource that is external to the data processing system;

	establish the A/V service between the superblock application and the resource via the network interface, wherein establishing is not otherwise supported by the superblock application;
establish the A/V service between the superblock application and the resource via the network interface, wherein establishing is not otherwise supported by the superblock application;	
	provide video output for the A/V service to a video window within a display window associated with the superblock application, the video window displayable simultaneously with the display window of the superblock application; and
provide video output for the A/V service to a video window within a display window associated with the superblock application, the video window displayable simultaneously with the display window of the superblock application; and	
	provide audio for the A/V service.
provide audio for the A/V service.	

Allowable Subject Matter

4. Claim 1 would be allowable if rewritten or amended to overcome the given double patenting rejection(s). It is noted that this may require the filing of a terminal disclaimer should

any amendments made to the claims would result in an obviousness based double patenting rejection. See at least 37 CFR 1.321(c) or 1.321(d).

Other References Cited not Relied Upon

5. **Kabbani et al.** (**US 8,246,760**) discloses superblocks of a network may be added and removed without adding switches to the network, but does not expressly disclose establishing audio video service between the superblock and the resource using a network interface.

6. **Kulkarni et al.** (**US 2011/0225359**) discloses a distributed networked storage system that enables server for superblock size and parity to be used without introducing the possibility of a double error on the same superblock but does not expressly disclose establishing audio video service between the superblock and the resource using a network interface.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CRAIG C DORAIS whose telephone number is (571)270-3371. The examiner can normally be reached M-F 9:00 am - 6:00pm.

8. Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

9. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Young can be reached on 571-270-3180. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

10. Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available

to registered users. To file and manage patent submissions in Patent Center, visit: https://patentcenter.uspto.gov. Visit https://www.uspto.gov/patents/apply/patent-center for more information about Patent Center and https://www.uspto.gov/patents/docx for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CRAIG C DORAIS/
Primary Examiner, Art Unit 2194

Notice of References Cited	Application/Control No. 18/432,148	Applicant(s)/Patent Under Reexamination CHATURVEDI et al.	
	Examiner CRAIG C DORAIS	Art Unit 2194	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-9246760-B1	2016-01-26	Kabbani; Abdul	H04L41/0896	1/1
*	B	US-20090216832-A1	2009-08-27	Quinn; Steven C.	G06F11/1076	709/203
	C					
	D					
	E					
	F					
	G					
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	I					
	J					
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	M					

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

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

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/432,148	CHATURVEDI et al.
	Examiner	Art Unit
	CRAIG C DORAIS	2194

CPC - Searched*		
Symbol	Date	Examiner

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Refreshed parent search. New keyword and CPC and keyword searches. Scholar searches. See attached.	08/23/2024	CD

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/CRAIG C DORAIS/ Primary Examiner, Art Unit 2194	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/432,148	CHATURVEDI et al.
	Examiner	**Art Unit**
	CRAIG C DORAIS	2194

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant						☐ CPA		☐ T.D.		☐ R.1.47
CLAIM		**DATE**								
Final	Original	08/24/2024								
	1	✓								

Resource Volume Management for Shared File System in SAN Environment.

SH Lim, JY Hwang, KH Kim, J Lee, KH Park - PDCS, 2003 - researchgate.net

... The **software** RAID technique **provides** user with flexible ... **Video** and **audio** are periodic **services**, large and contiguous data sets ... for the **superblock**, so we can hold this **superblock** lock to ...

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The efficiency improved scheme for secure access control of digital **video** distribution

L Hu, Y Li, T Li, H Li, J Chu - Multimedia Tools and **Applications**, 2016 - Springer

... RC6, we conclude that RC6 **provides** sufficient security for set-top ... with additional **services** such as digital broadcast, **video**-on-... A **superblock** of size 64 × 64 (SB64) could be split into 4 ...

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EFFICIENT DATA STORAGE AND RETRIEVAL TECHNIQUES FOR HIGH-PERFORMANCE **VIDEO** SERVERS

J Cho - 2000 - Citeseer

... to a **video**-on-demand **service** which **provides** the combined ... emergence of various multimedia **applications**[Agne96, Bufo94... the information stored in the **super block**. The directory block ...

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BOAT: **A** block-streaming **app** execution scheme for lightweight IoT devices

X Peng, J Ren, L She, D Zhang, J Li... - IEEE Internet of Things ..., 2018 - ieeexplore.ieee.org

... an **App** installation package (APK) format of IoT **services** in ... In particular, the block manager **determines** which blocks ... The **super block** has sector occupation information. The node ...

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iHELP: **a** model for instant learning of **video** coding in VR/AR real-time **applications**

YO Sharrab, MA Alsmirat, MAH Eljinini... - ... Tools and **Applications**, 2024 - Springer

... -based **video** streaming and **provides** reasonable **video** quality ... and **software**, including many popular **video** streaming **services**... These **superblocks** can be further partitioned into smaller ...

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Privexec: Private execution as an operating system **service**

K Onarlioglu, C Mulliner, W Robertson ... - 2013 IEEE Symposium ..., 2013 - ieeexplore.ieee.org

... that **provides** strong privacy guarantees for any **application** – not ... operating system **service** for private execution. PRIVEXEC ... eCryptfs uses this field to store **superblock** private data in a ...

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SMART: high performance internet server for high definition streaming **service**

Y Bak, K Kim, Y Lee, S Sok, C Kim, H Kim... - International Journal of ..., 2007 - gvpress.com

... There are six kinds of metadata in EXT3: **superblocks**, group block descriptors, inodes, ... more **services** to be available on the spot. The content distribution **software provides** following ...

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The demikernel datapath os architecture for microsecond-scale datacenter systems

I Zhang, A Raybuck, P Patel, K Olynyk ... - Proceedings of the ..., 2021 - dl.acm.org

... We use **superblocks** to manage DMA-capable memory and reference counting: the ... -bypass **applications**, we found that Demikernel **provides** OS management **services** with reasonable ...

☆ Save 99 Cite Cited by 98 Related articles All 4 versions

Generalized rate-distortion optimization for motion-compensated **video** coders

Y Yang, SS Hemami - . . on Circuits and Systems for Video .. , 2000 - ieeexplore.ieee.org

... MEMC **provides** temporal redundancy reduction between ... an initial **superblock** quadtree structure where **superblocks** with ... with **applications** to multiresolution and MPEG **video** coders," ...

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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
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L6	98	CHATURVEDI- SIVAKUMAR-$.in. CHATURVEDI- SIVAKUMAR.in. GUNDABATHULA- SATISH.in. GUNDABATHULA- SATISH-$.in. HIREMATH- RASHMI.in. HIREMATH-RASHMI- $.in.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2015/03/13 12:02 PM
L7	8533	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/03/13 03:56 PM
L8	9338	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/03/13 03:59 PM
L9	1053	plug-in AND	(US-PGPUB; USPAT;	OR	OFF	OFF	2015/03/13

		(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	EPO; JPO; DERWENT; IBM_TDB)				04:14 PM
L10	60	L8 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/03/13 04:21 PM
L11	9338	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/03/13 04:50 PM
L12	60	L11 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/03/13 04:50 PM
L13	6	L11 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/13 04:50 PM

		ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911" NOT L12					
L14	34	L11 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L12	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/13 04:58 PM
L15	9352	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/03/14 10:41 AM
L16	60	L15 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/03/14 10:41 AM

		determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"					
L17	5569	((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L16	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/14 10:41 AM
L18	1248	((window screen pane image display) WITH (plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension)) AND((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/14 10:44 AM

		allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L16					
L19	6	L15 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911" NOT L16	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/14 10:47 AM
L20	34	L15 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L16	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/14 10:47 AM
L22	125	((window screen pane image display) WITH (plug-in plugin plug ADJ	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/14 10:57 AM

		in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L16					
L23	126	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/14 11:20 AM

		authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L16					
L24	1	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L16 L19 L20 L22)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/14 11:21 AM
L25	2	((window screen pane image display) WITH (((function program application app sub) NEAR2 (block section segment)) plug-in plugin plug ADJ in addon add-on add ADJ	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/14 11:24 AM

		on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L16 L19 L20 L22 L23)					
L26	876	G06F9/44526.cpc. AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/03/14 11:27 AM
L27	37	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"2003	(USPAT; USOCR)	OR	ON	ON	2015/03/14 11:29 AM

		0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184					

		310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L28	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050	(USPAT; USOCR)	OR	ON	ON	2015/03/14 11:29 AM

		144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L29	304	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/14 11:29 AM

		304985"|"20020037000 "|"20020064167"|"2003 0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568					

		70"|"20020087887"|"20020120757"|"20020184310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L30	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"200401	(USPAT; USOCR)	OR	ON	ON	2015/03/14 11:29 AM

		48434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.				
L31	268	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/03/14 11:29 AM

		050008024"|"20050286 519"|"20080192756"|"6 766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7					

		123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L32	375	L26 AND (mobile cell cellular phone iphone) NOT (L16 L19 L20 L22 L24 L25 L27 L28 L29 L30 L31)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/03/14 11:29 AM
L36	10617	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/12/30 09:19 AM
L37	66	L36 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/12/30 09:19 AM
L38	66	L37	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 09:19 AM
L39	6	L36 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/12/30 09:24 AM

		allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911" NOT L37					
L40	6	L39	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 09:24 AM
L41	37	L36 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L37	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/12/30 09:25 AM
L42	37	L41	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 09:25 AM
L43	132	((window screen pane image display) WITH (plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/12/30 09:29 AM

		determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L37					
L44	132	L43	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 09:29 AM
L45	1	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L37 L39 L41 L43)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/12/30 09:30 AM
L46	1	L45	(US-PGPUB; USPAT; EPO; JPO;	OR	ON	ON	2015/12/30 09:30 AM

			DERWENT)				
L47	133	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L37	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/12/30 09:31 AM
L48	3	((window screen pane image display) WITH (((function program application app sub) NEAR2 (block section segment)) plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/12/30 09:31 AM

		add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L37 L39 L41 L43 L47)					
L49	3	L48	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 09:31 AM
L50	266	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"766	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/12/30 09:33 AM

		4495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.				
L51	266	L50	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 09:33 AM
L52	1021	G06F9/44526.cpc. AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/12/30 09:58 AM
L53	37	("20010050923"|"20020143548"|"20020156844	(USPAT; USOCR)	OR	ON	ON	2015/12/30 09:58 AM

		"|"20030202480"|"2004 0034776"|"2004010321 2"|"20050130650"|"200 50132009"|"200501984 99"|"20050201485"|"20 060168643"|"20060258 289"|"20070136459"|"2 0070165629"|"2007020 6563"|"20070297430"|" 20080273541"|"200900 52399"|"20090240821"| "20090327516"|"20110 122864"|"20110314134 "|"6128283"|"7079529"|" 7092385"|"7487248"|"7 623476"|"20030177422 "|"20050033985"|"2005 0091407"|"6850769"|"7 304985"|"20020037000 "|"20020064167"|"2003 0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20				

		020042769"|"20020124096"|"20030009565"|"20030043764"|"20030105812"|"20040128554"|"20050004982"|"20050120073"|"20050220017"|"20060062180"|"20060182100"|"20060205436"|"20070019545"|"20080091813"|"20080130639"|"20090003322"|"20090156217"|"20090234967"|"20090257433"|"20100011108"|"20100011111"|"20100279670"|"20100299150"|"20100299313"|"7346044"|"7353252"|"7574523"|"7656870"|"20020087887"|"20020120757"|"20020184310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L54	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"	(USPAT; USOCR)	OR	ON	ON	2015/12/30 09:58 AM

		20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20 020178087"|"20030220 121"|"20050086309"|"2 0050138119"|"2006014 8516"|"5790637"|"6473 425").PN.					

L55	300	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"20030110047"|"20030172145"|"20030214955"|"20040139230"|"20040153858"|"20040268257"|"20050136911"|"20050138128"|"20060072506"|"20060120375"|"20070082671"|"20070130253"|"20110145687"|"6219638"|"6754181"|"6999575"|"7185114"|"7590758"|"7623516"|"7774495"|"20030035441"|"20030076815"|"20030217171"|"20040260952"|"20050050227"|"5442637"|"5889762"|"6343067"|"7080158"|"20020031212"|"20020062285"|"20030046585"|"20040052234"|"20040139228"|"20040267527"|"20050187781"|"20060121902"|"20060171534"|"20060187926"|"20070253435"|"20080032695"|"20080168440"|"20090055473"|"20100049980"|"20100107205"|"20100312897"|"20110099612"|"20120263144"|"6141687"|"6898413"|"7010109"|"7345999"|"7457279"|"7542472"|"7570743"|"8065418"|"20020080719"|"20020176404"|"20030031210"|	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/12/30 09:58 AM

		"20030115251"|"20070016921"|"6836765"|"20020042769"|"20020124096"|"20030009565"|"20030043764"|"20030105812"|"20040128554"|"20050004982"|"20050120073"|"20050220017"|"20060062180"|"20060182100"|"20060205436"|"20070019545"|"20080091813"|"20080130639"|"20090003322"|"20090156217"|"20090234967"|"20090257433"|"20100011108"|"20100011111"|"20100279670"|"20100299150"|"20100299313"|"7346044"|"7353252"|"7574523"|"7656870"|"20020087887"|"20020120757"|"20020184310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L56	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"2	(USPAT; USOCR)	OR	ON	ON	2015/12/30 09:58 AM

		0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20 020178087"|"20030220 121"|"20050086309"|"2 0050138119"|"2006014 8516"|"5790637"|"6473					

		425").PN.					
L57	438	L52 AND (mobile cell cellular phone iphone) NOT (L37 L39 L41 L43 L45 L48 L53 L54 L55 L56 L50)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/12/30 09:58 AM
L58	438	L57	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 09:58 AM
L59	0	L36 AND without NEAR5 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 10:19 AM
L60	273	without WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 10:20 AM
L61	201	(instead place missing skipping) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 10:40 AM

		super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block) AND @ad<"20130911"					
L62	52840	(without instead place missing skipping) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 10:58 AM
L63	39452	(without) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 10:58 AM
L64	12	(without) NEAR2 (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 10:59 AM
L65	39	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 11:02 AM

		swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61)					
L66	27	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61 L64)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 11:02 AM
L67	5	(without instead place missing skipping) WITH (context NEAR3 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61 L64 L66)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 11:08 AM
L68	29	(without instead place missing skipping) WITH (context NEAR5 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61 L64 L66 L67)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2015/12/30 11:16 AM
L69	109	CHATURVEDI-	(US-PGPUB; USPAT)	OR	ON	ON	2015/12/30

		SIVAKUMAR.in. GUNDABATHULA-SATISH.in. HIREMATH-RASHMI.in. CHATURVEDI-SIVAKUMAR-$.in. GUNDABATHULA-SATISH-$.in. HIREMATH-RASHMI-$.in.					01:08 PM
L70	4	without ADJ switching NEAR3 context WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/03 11:20 AM
L71	3	establishing WITH function WITH block WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/03 11:21 AM
L72	11000	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/06/03 04:19 PM
L73	67	L72 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/06/03 04:19 PM
L74	67	L73	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:19 PM
L75	67	L74	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:19 PM
L76	6	L72 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:19 PM

		verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911" NOT L73					
L77	6	L76	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:19 PM
L78	6	L77	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:19 PM
L79	37	L72 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L73	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:20 PM
L80	37	L79	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:20 PM
L81	37	L80	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:20 PM
L82	133	((window screen pane image display) WITH (plug-in plugin plug ADJ in addon add-on add	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:20 PM

		ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L73					
L83	133	L82	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:20 PM
L84	133	L83	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:20 PM
L85	1	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:21 PM

		checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L73 L76 L79 L82)					
L86	1	L85	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:21 PM
L87	1	L86	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:21 PM
L88	134	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:23 PM

		clearence)) AND @ad<"20130911" NOT L73					
L89	3	((window screen pane image display) WITH (((function program application app sub) NEAR2 (block section segment)) plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L73 L76 L79 L82 L88)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:23 PM
L90	3	L89	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:23 PM
L91	3	L90	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:23 PM
L92	266	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:24 PM

		060203750"|"20070025 270"|"20070190987"|"2 0070260359"|"2008012 3685"|"20080250408"|" 20100077023"|"696355 5"|"6975718"|"7006508" |"7013155"|"7564843"|" 7782866"|"2004010097 3"|"20040158471"|"200 40162871"|"200402282 79"|"20040267938"|"20 050008024"|"20050286 519"|"20080192756"|"6 766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2					

		0030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L93	266	L92	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:24 PM
L94	266	L93	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:24 PM
L95	1065	G06F9/44526.cpc. AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/06/03 04:25 PM
L96	37	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"20030110047"|"20030172145"|"20030214955"|"20040139230"|"20040153858"|"20040268257"|"20050136911"|"20050138128"|"20060072506"|"20060120375"|"20070082671"|"20070130253"|	(USPAT; USOCR)	OR	ON	ON	2016/06/03 04:25 PM

		20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003 4793"|"20050195802"|" 20070110043"|"200803 20096"|"6987756"|"718 4415"|"7272377"|"7412 374"|"7477282"|"75126 52"|"20020097150"|"20					

		020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L97	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"62020	(USPAT; USOCR)	OR	ON	ON	2016/06/03 04:25 PM

		84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20 020178087"|"20030220 121"|"20050086309"|"2 0050138119"|"2006014 8516"|"5790637"|"6473 425").PN.					
L98	301	("20010050923"|"20020 143548"|"20020156844 "|"20030202480"|"2004 0034776"|"2004010321 2"|"20050130650"|"200 50132009"|"200501984 99"|"20050201485"|"20 060168643"|"20060258 289"|"20070136459"|"2 0070165629"|"2007020 6563"|"20070297430"|" 20080273541"|"200900 52399"|"20090240821"| "20090327516"|"20110 122864"|"20110314134 "|"6128283"|"7079529"|" 7092385"|"7487248"|"7 623476"|"20030177422 "|"20050033985"|"2005 0091407"|"6850769"|"7 304985"|"20020037000 "|"20020064167"|"2003 0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:25 PM

		0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003 4793"|"20050195802"|" 20070110043"|"200803 20096"|"6987756"|"718 4415"|"7272377"|"7412					

		374"|"7477282"|"751265 2"|"20020097150"|"20 020152325"|"20030088 676"|"20030126213"|"2 0030158722"|"2003016 3525").PN.					
L99	36	("20030187650"|"20040 024879"|"20040068567 "|"20040203834"|"2004 0240399"|"2005007148 1"|"20050143105"|"200 50246193"|"200600023 55"|"20060069775"|"20 060203750"|"20070025 270"|"20070190987"|"2 0070260359"|"2008012 3685"|"20080250408"|" 20100077023"|"696355 5"|"6975718"|"7006508" |"7013155"|"7564843"|" 7782866"|"2004010097 3"|"20040158471"|"200 40162871"|"200402282 79"|"20040267938"|"20 050008024"|"20050286 519"|"20080192756"|"6 766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20	(USPAT; USOCR)	OR	ON	ON	2016/06/03 04:25 PM

		100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L100	462	L95 AND (mobile cell cellular phone iphone) NOT (L73 L76 L79 L82 L85 L89 L96 L97 L98 L99 L92)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/06/03 04:25 PM
L101	462	L100	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:25 PM
L102	462	L101	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:25 PM
L103	0	L72 AND without NEAR5 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:27 PM

		program-block program ADJ block application ADJ block appblock app-block application-block)					
L104	0	L103	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:27 PM
L105	285	without WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:28 PM
L106	285	L105	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:28 PM
L107	203	(instead place missing skipping) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:29 PM
L108	203	L107	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:29 PM
L109	12	(without) NEAR2 (context NEAR1 (switch switches switching switched swap swaps	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:31 PM

		swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L105 L107)					
L110	12	L109	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:31 PM
L111	40	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L105 L107)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:31 PM
L112	40	L111	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:31 PM
L113	28	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L105 L107 L109)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:34 PM
L114	28	L113	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:34 PM
L115	5	(without instead place missing skipping) WITH (context NEAR3 (switch switches switching switched swap swaps swapping swapped change changes	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:34 PM

		changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L105 L107 L109 L113)					
L116	5	L115	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:34 PM
L117	29	(without instead place missing skipping) WITH (context NEAR5 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L105 L107 L109 L113 L115)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:35 PM
L118	29	L117	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:35 PM
L119	119	CHATURVEDI-SIVAKUMAR.in. GUNDABATHULA-SATISH.in. HIREMATH-RASHMI.in. CHATURVEDI-SIVAKUMAR-$.in. GUNDABATHULA-SATISH-$.in. HIREMATH-RASHMI-$.in.	(US-PGPUB; USPAT)	OR	ON	ON	2016/06/03 04:38 PM
L120	119	L119	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:38 PM
L121	5	without ADJ switching NEAR3 context WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:39 PM
L122	5	L121	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/03 04:39 PM
L123	4	establishing WITH function WITH block WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/06/03 04:39 PM
L124	4	L123	(US-PGPUB; USPAT;	OR	ON	ON	2016/06/03

			EPO; JPO; DERWENT; IBM_TDB)				04:39 PM
L128	11491	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/12/20 10:19 AM
L129	67	L128 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/12/20 10:19 AM
L130	67	L129	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:19 AM
L131	67	L130	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:19 AM
L132	67	L131	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:19 AM
L133	7	L128 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:20 AM

		ok-ed ok-ing)) AND @ad<"20130911" NOT L129					
L134	7	L133	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:20 AM
L135	7	L134	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:20 AM
L136	7	L135	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:20 AM
L137	39	L128 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L129	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:26 AM
L138	39	L137	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:26 AM
L139	39	L138	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:26 AM
L140	39	L139	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:26 AM
L141	135	((window screen pane image display) WITH (plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:27 AM

		simultaneous)) AND((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L129					
L142	135	L141	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:27 AM
L143	135	L142	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:27 AM
L144	135	L143	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:27 AM
L145	1	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:28 AM

		determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L129 L133 L137 L141)					
L146	1	L145	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:28 AM
L147	1	L146	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:28 AM
L148	1	L147	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:28 AM
L149	136	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:29 AM

		ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L129					
L150	3	((window screen pane image display) WITH (((function program application app sub) NEAR2 (block section segment)) plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L129 L133 L137 L141 L149)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:29 AM
L151	3	L150	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:29 AM
L152	3	L151	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:29 AM
L153	3	L152	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:29 AM
L154	268	("20030187650"|"20040	(US-PGPUB; USPAT;	OR	ON	ON	2016/12/20

		024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"2004010097 3"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6	USOCR; EPO; JPO; DERWENT; IBM_TDB)				10:31 AM

		031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L155	268	L154	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:31 AM
L156	268	L155	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:31 AM
L157	268	L156	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:31 AM
L158	1107	G06F9/44526.cpc. AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/12/20 10:32 AM
L159	37	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000	(USPAT; USOCR)	OR	ON	ON	2016/12/20 10:32 AM

		"|"20020064167"|"2003 0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20				

		020120757"|"20020184310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L160	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|	(USPAT; USOCR)	OR	ON	ON	2016/12/20 10:32 AM

		"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.				
L161	301	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"2005	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:32 AM

		0091407"|"6850769"|"7 304985"|"20020037000 "|"20020064167"|"2003 0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353					

		252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003 4793"|"20050195802"|" 20070110043"|"200803 20096"|"6987756"|"718 4415"|"7272377"|"7412 374"|"7477282"|"75126 52"|"20020097150"|"20 020152325"|"20030088 676"|"20030126213"|"2 0030158722"|"2003016 3525").PN.					
L162	36	("20030187650"|"20040 024879"|"20040068567 "|"20040203834"|"2004 0240399"|"2005007148 1"|"20050143105"|"200 50246193"|"200600023 55"|"20060069775"|"20 060203750"|"20070025 270"|"20070190987"|"2 0070260359"|"2008012 3685"|"20080250408"|" 20100077023"|"696355 5"|"6975718"|"7006508" |"7013155"|"7564843"|" 7782866"|"2004010097 3"|"20040158471"|"200 40162871"|"200402282 79"|"20040267938"|"20 050008024"|"20050286 519"|"20080192756"|"6 766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|"	(USPAT; USOCR)	OR	ON	ON	2016/12/20 10:32 AM

		20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.				
L163	482	L158 AND (mobile cell cellular phone iphone) NOT (L129 L133 L137 L141 L145 L150 L159 L160 L161 L162 L154)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/12/20 10:32 AM
L164	482	L163	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:32 AM
L165	482	L164	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:32 AM
L166	482	L165	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:32 AM
L167	0	L128 AND without NEAR5 (switch	(US-PGPUB; USPAT; EPO; JPO;	OR	ON	ON	2016/12/20 10:49 AM

		switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	DERWENT)				
L168	0	L167	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:49 AM
L169	0	L168	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:49 AM
L170	292	without WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:49 AM
L171	292	L170	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:49 AM
L172	292	L171	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:49 AM
L173	204	(instead place missing skipping) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:50 AM

		(superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block) AND @ad<"20130911"					
L174	204	L173	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:50 AM
L175	204	L174	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:50 AM
L176	12	(without) NEAR2 (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:51 AM
L177	12	L176	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:51 AM
L178	12	L177	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:51 AM
L179	41	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:51 AM
L180	41	L179	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:51 AM

L181	41	L180	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:51 AM
L182	29	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173 L176)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:52 AM
L183	29	L182	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:52 AM
L184	29	L183	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:52 AM
L185	5	(without instead place missing skipping) WITH (context NEAR3 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173 L176 L182)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:52 AM
L186	5	L185	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:52 AM
L187	5	L186	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:52 AM
L188	7	without ADJ switching NEAR3 context WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:53 AM
L189	7	L188	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:53 AM
L190	7	L189	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:53 AM

L191	7	establishing WITH function WITH block WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:53 AM
L192	7	L191	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/20 10:53 AM
L193	7	L192	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 10:53 AM
L194	59	(establish establishes establishing established establishment ascertain ascertains ascertaining ascertained determine determines determining determined determination discover discovers discovering discovered discovery learn learns learning learned (find finds finding) ADJ out found certain confirm confirms confirming confirmed confirmation) WITH (lack lacks lacking lacked without) WITH (superblock super-block super ADJ block (parent child primary secondary top bottom) ADJ block) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 11:15 AM
L195	56	(establish establishes establishing established establishment ascertain ascertains ascertaining ascertained determine determines determining determined determination discover discovers discovering discovered discovery learn learns learning learned (find finds finding) ADJ out found certain confirm confirms confirming confirmed confirmation) WITH (lack lacks lacking lacked without) WITH ((parent child primary secondary top bottom) ADJ (application program app)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 11:25 AM
L196	175	(network net grid web	(US-PGPUB; USPAT;	OR	ON	ON	2016/12/20

		cloud LAN WAN) SAME ((lack lacks lacking lacked without) WITH ((master slave parent child primary secondary top bottom) ADJ (application program app))) AND @ad<"20130911" NOT (L194 L195)	EPO; JPO; DERWENT)				11:37 AM
L197	2993	(network net grid web cloud LAN WAN) SAME ((lack lacks lacking lacked without) WITH ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 12:13 PM
L198	1923	(network net grid web cloud LAN WAN) WITH ((lack lacks lacking lacked without) WITH ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 12:14 PM
L199	1003	(network net grid web cloud LAN WAN) WITH ((lack lacks lacking lacked without) NEAR5 ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 12:14 PM
L200	267	(network net grid web cloud LAN WAN) NEAR5 ((lack lacks lacking lacked without)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/20 12:14 PM

		NEAR3 ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR3 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)					
L201	60	("20010050923"|"20020031212"|"20020037000"|"20020038282"|"20020042769"|"20020062285"|"20020064167"|"20020080719"|"20020087887"|"20020097150"|"20020120757"|"20020124096"|"20020143548"|"20020150110"|"20020152325"|"20020156844"|"20020166053"|"20020173303"|"20020176404"|"20020178087"|"20020184310"|"20030009565"|"20030031210"|"20030035441"|"20030043764"|"20030044020"|"20030046056"|"20030046585"|"20030061025"|"20030061481"|"20030072485"|"20030076815"|"20030078858"|"20030088676"|"20030105812"|"20030110047"|"20030115251"|"20030126213"|"20030135569"|"20030137939"|"20030158722"|"20030163525"|"20030163697"|"20030172145"|"20030174707"|"20030177186"|"20030177422"|"20030187650"|"20030202480"|"20030212772"|"20030214955"|"20030217171"|"20030217318"|"20030220121"|"20030229715"|"20040005877"|"20040024879"|"20040034776"|"20040034793"|"20040039781").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/12/21 12:27 PM
L202	110	("20040044517"|"20040052234"|"20040062267"|"20040068567"|"20040100973"|"20040103212"|"20040128554"|"200	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/12/21 12:27 PM

		40133689"|"200401392 25"|"20040139228"|"20 040139230"|"20040143 678"|"20040148434"|"2 0040153858"|"2004015 8471"|"20040162871"|" 20040193599"|"200402 03834"|"20040213184"| "20040228279"|"20040 240399"|"20040249885 "|"20040249953"|"2004 0260952"|"2004026752 7"|"20040267938"|"200 40268257"|"200500049 82"|"20050008024"|"20 050015502"|"20050033 843"|"20050033985"|"2 0050050227"|"2005007 1481"|"20050086309"|" 20050091407"|"200501 05524"|"20050119005"| "20050120073"|"20050 130650"|"20050132009 "|"20050136911"|"2005 0138119"|"2005013812 8"|"20050143105"|"200 50144288"|"200501877 81"|"20050187957"|"20 050195802"|"20050198 499"|"20050201357"|"2 0050201485"|"2005020 8947"|"20050220017"|" 20050246193"|"200502 49196"|"20050254440"| "20050270992"|"20050 286519"|"20060002355 "|"20060062180"|"2006 0069775"|"2006007250 6"|"20060120375"|"200 60121902"|"200601219 86"|"20060148516"|"20 060165029"|"20060168 643"|"20060171534"|"2 0060182100"|"2006018 3476"|"20060187926"|" 20060195402"|"200602 03750"|"20060205436"| "20060218624"|"20060 230166"|"20060233117 "|"20060246903"|"2006 0258289"|"2007001692 1"|"20070019545"|"200 70025270"|"200700787 85"|"20070082671"|"20 070110043"|"20070111 794"|"20070116224"|"2 0070130253"|"2007013 6459"|"20070165629"|"					

		20070190987"|"20070206563"|"20070239892"|"20070253435"|"20070260359"|"20070274276"|"20070280253"|"20070294626"|"20070297430"|"20080005328"|"20080019285"|"20080032695"|"20080046984"|"20080069105"|"20080080392"|"20080091813"|"20080123685"|"20080130639").PN.					
L203	130	("20080168440"|"20080192756"|"20080235362"|"20080235511"|"20080244718"|"20080250408"|"20080273541"|"20080320096"|"20080320565"|"20090003322"|"20090006076"|"20090052399"|"20090055473"|"20090088150"|"20090136016"|"20090156217"|"20090182815"|"20090192976"|"20090234967"|"20090240821"|"20090257433"|"20090300673"|"20090327516"|"20100011108"|"20100011111"|"20100049980"|"20100058353"|"20100077023"|"20100107205"|"20100174783"|"20100191954"|"20100223047"|"20100279670"|"20100299150"|"20100299313"|"20100312832"|"20100312897"|"20110040836"|"20110099612"|"20110122864"|"20110141220"|"20110145687"|"20110307556"|"20110314134"|"20110320821"|"20120078609"|"20120124191"|"20120263144"|"20130067004"|"20130106989"|"20130111064"|"20130125145"|"20150026700"|"5442637"|"5761309"|"5790637"|"5818447"|"5889762"|"6031818"|"6128283"|"6141687"|"6161082"|"6195694"|"6202084"|"6219638"|"6298129"|"6311150"|"6343067"|"6360196"|"638	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/12/21 12:27 PM

		9016"|"6438376"|"6473425"|"6574668"|"6606112"|"6741691"|"6754181"|"6766373"|"6826613"|"6836765"|"6842460"|"6850769"|"6898413"|"6912278"|"6940826"|"6963555"|"6975718"|"6987756"|"6999575"|"6999932"|"7006508"|"7010109"|"7013155"|"7079529"|"7080158"|"7092385"|"7117526"|"7123710"|"7184415"|"7185114"|"7272377"|"7302496"|"7304985"|"7345999"|"7346044"|"7353252"|"7353255"|"7412374"|"7457279"|"7477282"|"7487248"|"7512652"|"7542472"|"7564843"|"7570743"|"7574523"|"7590758"|"7613171"|"7623476"|"7623516"|"7656870"|"7664495"|"7769881"|"7774495"|"7778187"|"7782866"|"7917584"|"8009586"|"8065418"|"8200796"|"8407576").PN.					
L204	37	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"20030110047"|"20030172145"|"20030214955"|"20040139230"|"20040153858"|"20040268257"|"20050136911"|"20050138128"|"20060072506"|"2	(USPAT; USOCR)	OR	ON	ON	2016/12/21 12:28 PM

		0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003 4793"|"20050195802"|" 20070110043"|"200803 20096"|"6987756"|"718 4415"|"7272377"|"7412					

		374"|"7477282"|"75126 52"|"20020097150"|"20 020152325"|"20030088 676"|"20030126213"|"2 0030158722"|"2003016 3525").PN.					
L205	36	("20030187650"|"20040 024879"|"20040068567 "|"20040203834"|"2004 0240399"|"2005007148 1"|"20050143105"|"200 50246193"|"200600023 55"|"20060069775"|"20 060203750"|"20070025 270"|"20070190987"|"2 0070260359"|"2008012 3685"|"20080250408"|" 20100077023"|"696355 5"|"6975718"|"7006508" |"7013155"|"7564843"|" 7782866"|"2004010097 3"|"20040158471"|"200 40162871"|"200402282 79"|"20040267938"|"20 050008024"|"20050286 519"|"20080192756"|"6 766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20	(USPAT; USOCR)	OR	ON	ON	2016/12/21 12:28 PM

		100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L206	301	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"20030110047"|"20030172145"|"20030214955"|"20040139230"|"20040153858"|"20040268257"|"20	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/21 12:28 PM

		050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003 4793"|"20050195802"|" 20070110043"|"200803					

		20096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L207	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"200	(USPAT; USOCR)	OR	ON	ON	2016/12/21 12:28 PM

		70274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L208	268	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"2004024	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/12/21 12:28 PM

		9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20 020178087"|"20030220 121"|"20050086309"|"2 0050138119"|"2006014 8516"|"5790637"|"6473 425").PN.					

L209	25	(L201 L202 L203) NOT (L204 L205 L206 L207 L208)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2016/12/21 12:28 PM
L210	37	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"20030110047"|"20030172145"|"20030214955"|"20040139230"|"20040153858"|"20040268257"|"20050136911"|"20050138128"|"20060072506"|"20060120375"|"20070082671"|"20070130253"|"20110145687"|"6219638"|"6754181"|"6999575"|"7185114"|"7590758"|"7623516"|"7774495"|"20030035441"|"20030076815"|"20030217171"|"20040260952"|"20050050227"|"5442637"|"5889762"|"6343067"|"7080158"|"20020031212"|"20020062285"|"20030046585"|"20040052234"|"20040139228"|"20040267527"|"20050187781"|"20060121902"|"20060171534"|"20060187926"|"20070253435"|"20080032695"|"20080168440"|"20090055473"|"20100049980"|"20100107205"|"20100312897"|"20110099612"|"20120263144"|"6141687"|"6898413"|"7010109"|"734599	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		9"|"7457279"|"7542472"|"7570743"|"8065418"|"20020080719"|"20020176404"|"20030031210"|"20030115251"|"20070016921"|"6836765"|"20020042769"|"20020124096"|"20030009565"|"20030043764"|"20030105812"|"20040128554"|"20050004982"|"20050120073"|"20050220017"|"20060062180"|"20060182100"|"20060205436"|"20070019545"|"20080091813"|"20080130639"|"20090003322"|"20090156217"|"20090234967"|"20090257433"|"20100011108"|"20100011111"|"20100279670"|"20100299150"|"20100299313"|"7346044"|"7353252"|"7574523"|"7656870"|"20020087887"|"20020120757"|"20020184310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L211	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		519"|"20080192756"|"6 766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20					

		020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
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		144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003 4793"|"20050195802"|" 20070110043"|"200803 20096"|"6987756"|"718 4415"|"7272377"|"7412 374"|"7477282"|"75126 52"|"20020097150"|"20 020152325"|"20030088 676"|"20030126213"|"2 0030158722"|"2003016 3525").PN.					
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		79"|"20040267938"|"20 050008024"|"20050286 519"|"20080192756"|"6 766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|"					

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L214	286	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"200800053	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		28"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L215	172	CHATURVEDI-SIVAKUMAR-$.in. CHATURVEDI-SIVAKUMAR.in. GUNDABATHULA-SATISH.in. GUNDABATHULA-SATISH-$.in. HIREMATH-RASHMI.in. HIREMATH-RASHMI-$.in.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2022/04/13 12:54 PM
L216	14774	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L217	16175	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L218	1466	plug-in AND (G06F9/54.cpc. G06F9/541.cpc.	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM

		G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"					
L219	81	L8 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L220	16175	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L221	81	L11 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L222	11	L11 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911" NOT L12					
L223	49	L11 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L12	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L224	16175	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L225	81	L15 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM

		authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"					
L226	6276	((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L16	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L227	1440	((window screen pane image display) WITH (plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension)) AND((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L16					
L228	11	L15 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911" NOT L16	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L229	49	L15 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L16	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L230	156	((window screen pane image display) WITH (plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L16					
L231	159	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L16					
L232	3	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L16 L19 L20 L22)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L233	3	((window screen pane image display) WITH (((function program application app sub) NEAR2 (block section segment)) plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		(both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L16 L19 L20 L22 L23)					
L234	1577	G06F9/44526.cpc. AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L235	37	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"20030110047"|"20030172145"|"20030214955"|"200	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003					

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L237	311	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"2003	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184					

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		144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L239	286	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20 020178087"|"20030220					

		121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L240	608	L26 AND (mobile cell cellular phone iphone) NOT (L16 L19 L20 L22 L24 L25 L27 L28 L29 L30 L31)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L241	16175	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L242	81	L36 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L243	81	L37	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L244	11	L36 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911" NOT L37					
L245	11	L39	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L246	49	L36 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L37	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L247	49	L41	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L248	156	((window screen pane image display) WITH (plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		(authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L37					
L249	156	L43	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L250	3	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L37 L39 L41 L43)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L251	3	L45	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM

L252	159	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L37	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L253	3	((window screen pane image display) WITH (((function program application app sub) NEAR2 (block section segment)) plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L37 L39 L41 L43 L47)					
L254	3	L48	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L255	286	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.				
L256	286	L50	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L257	1577	G06F9/44526.cpc. AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L258	37	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"2004	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		0034776"|"2004010321 2"|"20050130650"|"200 50132009"|"200501984 99"|"20050201485"|"20 060168643"|"20060258 289"|"20070136459"|"2 0070165629"|"2007020 6563"|"20070297430"|" 20080273541"|"200900 52399"|"20090240821"| "20090327516"|"20110 122864"|"20110314134 "|"6128283"|"7079529"|" 7092385"|"7487248"|"7 623476"|"20030177422 "|"20050033985"|"2005 0091407"|"6850769"|"7 304985"|"20020037000 "|"20020064167"|"2003 0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124					

		096"|"20030009565"|"20030043764"|"20030105812"|"20040128554"|"20050004982"|"20050120073"|"20050220017"|"20060062180"|"20060182100"|"20060205436"|"20070019545"|"20080091813"|"20080130639"|"20090003322"|"20090156217"|"20090234967"|"20090257433"|"20100011108"|"20100011111"|"20100279670"|"20100299150"|"20100299313"|"7346044"|"7353252"|"7574523"|"7656870"|"20020087887"|"20020120757"|"20020184310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L259	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"200502	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		70992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.				
L260	311	("20010050923"|"20020	(US-PGPUB; USPAT;	OR	ON	ON	2022/04/13

		143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"20030110047"|"20030172145"|"20030214955"|"20040139230"|"20040153858"|"20040268257"|"20050136911"|"20050138128"|"20060072506"|"20060120375"|"20070082671"|"20070130253"|"20110145687"|"6219638"|"6754181"|"6999575"|"7185114"|"7590758"|"7623516"|"7774495"|"20030035441"|"20030076815"|"20030217171"|"20040260952"|"20050050227"|"5442637"|"5889762"|"6343067"|"7080158"|"20020031212"|"20020062285"|"20030046585"|"20040052234"|"20040139228"|"20040267527"|"20050187781"|"20060121902"|"20060171534"|"20060187926"|"20070253435"|"20080032695"|"20080168440"|"20090055473"|"20100049980"|"20100107205"|"20100312897"|"20110099612"|"20120263144"|"6141687"|"6898413"|"7010109"|"7345999"|"7457279"|"7542472"|"7570743"|"8065418"|"20020080719"|"20020176404"|"20030031210"|"20030115251"|"20070	USOCR; EPO; JPO; DERWENT; IBM_TDB)				12:54 PM

		016921"|"6836765"|"20020042769"|"20020124096"|"20030009565"|"20030043764"|"20030105812"|"20040128554"|"20050004982"|"20050120073"|"20050220017"|"20060062180"|"20060182100"|"20060205436"|"20070019545"|"20080091813"|"20080130639"|"20090003322"|"20090156217"|"20090234967"|"20090257433"|"20100011108"|"20100011111"|"20100279670"|"20100299150"|"20100299313"|"7346044"|"7353252"|"7574523"|"7656870"|"20020087887"|"20020120757"|"20020184310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L261	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"2004024	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20 020178087"|"20030220 121"|"20050086309"|"2 0050138119"|"2006014 8516"|"5790637"|"6473 425").PN.					

L262	608	L52 AND (mobile cell cellular phone iphone) NOT (L37 L39 L41 L43 L45 L48 L53 L54 L55 L56 L50)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L263	608	L57	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L264	0	L36 AND without NEAR5 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L265	438	without WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L266	208	(instead place missing skipping) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM

		function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block) AND @ad<"20130911"					
L267	55360	(without instead place missing skipping) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L268	41386	(without) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L269	11	(without) NEAR2 (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L270	41	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM

		change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61)					
L271	30	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61 L64)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L272	5	(without instead place missing skipping) WITH (context NEAR3 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61 L64 L66)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L273	50	(without instead place missing skipping) WITH (context NEAR5 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L60 L61 L64 L66 L67)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L274	165	CHATURVEDI-SIVAKUMAR.in.	(US-PGPUB; USPAT)	OR	ON	ON	2022/04/13 12:54 PM

		GUNDABATHULA-SATISH.in. HIREMATH-RASHMI.in. CHATURVEDI-SIVAKUMAR-$.in. GUNDABATHULA-SATISH-$.in. HIREMATH-RASHMI-$.in.					
L275	14	without ADJ switching NEAR3 context WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L276	11	establishing WITH function WITH block WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L277	16175	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L278	81	L72 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L279	81	L73	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L280	81	L74	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L281	11	L72 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911" NOT L73					
L282	11	L76	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L283	11	L77	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L284	49	L72 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L73	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L285	49	L79	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L286	49	L80	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L287	156	((window screen pane image display) WITH (plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L73					
L288	156	L82	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L289	156	L83	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L290	3	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L73 L76 L79 L82)					
L291	3	L85	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L292	3	L86	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L293	159	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		@ad<"20130911" NOT L73					
L294	3	((window screen pane image display) WITH (((function program application app sub) NEAR2 (block section segment)) plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L73 L76 L79 L82 L88)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L295	3	L89	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L296	3	L90	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L297	286	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		270"|"20070190987"|"2 0070260359"|"2008012 3685"|"20080250408"|" 20100077023"|"696355 5"|"6975718"|"7006508" |"7013155"|"7564843"|" 7782866"|"2004010097 3"|"20040158471"|"200 40162871"|"200402282 79"|"20040267938"|"20 050008024"|"20050286 519"|"20080192756"|"6 766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013				

		3689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L298	286	L92	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L299	286	L93	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L300	1577	G06F9/44526.cpc. AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L301	37	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"20030110047"|"20030172145"|"20030214955"|"20040139230"|"20040153858"|"20040268257"|"20050136911"|"20050138128"|"20060072506"|"20060120375"|"20070082671"|"20070130253"|"20110145687"|"621963	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003 4793"|"20050195802"|" 20070110043"|"200803 20096"|"6987756"|"718 4415"|"7272377"|"7412 374"|"7477282"|"75126 52"|"20020097150"|"20 020152325"|"20030088					

		676"|"20030126213"|"20030158722"|"20030163525").PN.					
L302	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"643837	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		6"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L303	311	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7304985"|"20020037000"|"20020064167"|"20030110047"|"20030172145"|"20030214955"|"20040139230"|"20040153858"|"20040268257"|"20050136911"|"20050138128"|"20060072506"|"20060120375"|"2007008	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003 4793"|"20050195802"|" 20070110043"|"200803 20096"|"6987756"|"718 4415"|"7272377"|"7412 374"|"7477282"|"75126					

		52"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L304	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L305	608	L95 AND (mobile cell cellular phone iphone) NOT (L73 L76 L79 L82 L85 L89 L96 L97 L98 L99 L92)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L306	608	L100	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L307	608	L101	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L308	0	L72 AND without NEAR5 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM

		ADJ block application ADJ block appblock app-block application-block)					
L309	0	L103	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L310	438	without WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L311	438	L105	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L312	208	(instead place missing skipping) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L313	208	L107	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L314	11	(without) NEAR2 (context NEAR1 (switch switches switching switched swap swaps swapping swapped	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM

		change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L105 L107)					
L315	11	L109	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L316	41	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L105 L107)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L317	41	L111	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L318	30	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L105 L107 L109)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L319	30	L113	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L320	5	(without instead place missing skipping) WITH (context NEAR3 (switch switches switching switched swap swaps swapping swapped change changes changing changed	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM

		move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L105 L107 L109 L113)					
L321	5	L115	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L322	50	(without instead place missing skipping) WITH (context NEAR5 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L105 L107 L109 L113 L115)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L323	50	L117	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L324	165	CHATURVEDI-SIVAKUMAR.in. GUNDABATHULA-SATISH.in. HIREMATH-RASHMI.in. CHATURVEDI-SIVAKUMAR-$.in. GUNDABATHULA-SATISH-$.in. HIREMATH-RASHMI-$.in.	(US-PGPUB; USPAT)	OR	ON	ON	2022/04/13 12:54 PM
L325	172	L119	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L326	14	without ADJ switching NEAR3 context WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L327	14	L121	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L328	11	establishing WITH function WITH block WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L329	11	L123	(US-PGPUB; USPAT; EPO; JPO;	OR	ON	ON	2022/04/13 12:54 PM

			DERWENT; IBM_TDB)				
L330	16175	(G06F9/54.cpc. G06F9/541.cpc. G06F9/542.cpc. G06F9/44526.cpc.) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L331	81	L128 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L332	81	L129	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L333	81	L130	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L334	81	L131	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L335	11	L128 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing)) AND	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		@ad<"20130911" NOT L129					
L336	11	L133	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L337	11	L134	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L338	11	L135	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L339	49	L128 AND ((plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L129	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L340	49	L137	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L341	49	L138	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L342	49	L139	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L343	156	((window screen pane image display) WITH (plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND(	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		(plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT L129					
L344	156	L141	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L345	156	L142	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L346	156	L143	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L347	3	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L129 L133 L137 L141)					
L348	3	L145	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L349	3	L146	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L350	3	L147	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L351	159	((window screen pane image display) WITH (function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		capable permission clearence)) AND @ad<"20130911" NOT L129					
L352	3	((window screen pane image display) WITH (((function program application app sub) NEAR2 (block section segment)) plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (both together simultaneously "same time" concurrent concurrently simultaneous)) AND((function ADJ block plug-in plugin plug ADJ in addon add-on add ADJ on addin add-in add ADJ in extension) WITH (verify verifies verifying verified verification check checks checking checked determine determines determining determined) WITH (authority authorize authorizes authorizing authorized approve approves approving approved approval allow allows allowing allowed allowance ok okeys oking oked okes ok-ed ok-ing able capable permission clearence)) AND @ad<"20130911" NOT (L129 L133 L137 L141 L149)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L353	3	L150	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L354	3	L151	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L355	3	L152	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L356	286	("20030187650"|"20040024879"|"20040068567	(US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	ON	2022/04/13 12:54 PM

		"|"20040203834"|"2004 0240399"|"2005007148 1"|"20050143105"|"200 50246193"|"200600023 55"|"20060069775"|"20 060203750"|"20070025 270"|"20070190987"|"2 0070260359"|"2008012 3685"|"20080250408"|" 20100077023"|"696355 5"|"6975718"|"7006508" |"7013155"|"7564843"|" 7782866"|"2004010097 3"|"20040158471"|"200 40162871"|"200402282 79"|"20040267938"|"20 050008024"|"20050286 519"|"20080192756"|"6 766373"|"7613171"|"20 020173303"|"20030078 858"|"20030212772"|"2 0040005877"|"2004024 9953"|"20050033843"|" 20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65	DERWENT; IBM_TDB)				

		74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20 020178087"|"20030220 121"|"20050086309"|"2 0050138119"|"2006014 8516"|"5790637"|"6473 425").PN.					
L357	286	L154	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L358	286	L155	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L359	286	L156	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L360	1577	G06F9/44526.cpc. AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L361	37	("20010050923"|"20020 143548"|"20020156844 "|"20030202480"|"2004 0034776"|"2004010321 2"|"20050130650"|"200 50132009"|"200501984 99"|"20050201485"|"20 060168643"|"20060258 289"|"20070136459"|"2 0070165629"|"2007020 6563"|"20070297430"|" 20080273541"|"200900 52399"|"20090240821"| "20090327516"|"20110 122864"|"20110314134 "|"6128283"|"7079529"|" 7092385"|"7487248"|"7 623476"|"20030177422 "|"20050033985"|"2005 0091407"|"6850769"|"7 304985"|"20020037000 "|"20020064167"|"2003	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184					

		310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L362	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L363	311	("20010050923"|"20020143548"|"20020156844"|"20030202480"|"20040034776"|"20040103212"|"20050130650"|"20050132009"|"20050198499"|"20050201485"|"20060168643"|"20060258289"|"20070136459"|"20070165629"|"20070206563"|"20070297430"|"20080273541"|"20090052399"|"20090240821"|"20090327516"|"20110122864"|"20110314134"|"6128283"|"7079529"|"7092385"|"7487248"|"7623476"|"20030177422"|"20050033985"|"20050091407"|"6850769"|"7	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		304985"|"20020037000 "|"20020064167"|"2003 0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568					

		70"|"20020087887"|"20020120757"|"20020184310"|"20030046056"|"20030163697"|"20040034793"|"20050195802"|"20070110043"|"20080320096"|"6987756"|"7184415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L364	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"200401	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		48434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.				
L365	608	L158 AND (mobile cell cellular phone iphone) NOT (L129 L133 L137 L141 L145 L150 L159 L160 L161 L162 L154)	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/04/13 12:54 PM
L366	608	L163	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L367	608	L164	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L368	608	L165	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L369	0	L128 AND without NEAR5 (switch switches switching	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM

		switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)					
L370	0	L167	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L371	0	L168	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L372	438	without WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L373	438	L170	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L374	438	L171	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L375	208	(instead place missing skipping) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM

		super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block) AND @ad<"20130911"					
L376	208	L173	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L377	208	L174	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L378	11	(without) NEAR2 (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L379	11	L176	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L380	11	L177	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L381	41	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L382	41	L179	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L383	41	L180	(US-PGPUB; USPAT;	OR	ON	ON	2022/04/13

			EPO; JPO; DERWENT)				12:54 PM
L384	30	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173 L176)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L385	30	L182	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L386	30	L183	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L387	5	(without instead place missing skipping) WITH (context NEAR3 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173 L176 L182)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L388	5	L185	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L389	5	L186	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L390	14	without ADJ switching NEAR3 context WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L391	14	L188	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L392	14	L189	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L393	11	establishing WITH	(US-PGPUB; USPAT;	OR	ON	ON	2022/04/13

		function WITH block WITH superblock	EPO; JPO; DERWENT)				12:54 PM
L394	11	L191	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM
L395	11	L192	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L396	62	(establish establishes establishing established establishment ascertain ascertains ascertaining ascertained determine determines determining determined determination discover discovers discovering discovered discovery learn learns learning learned (find finds finding) ADJ out found certain confirm confirms confirming confirmed confirmation) WITH (lack lacks lacking lacked without) WITH (superblock super-block super ADJ block (parent child primary secondary top bottom) ADJ block) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L397	60	(establish establishes establishing established establishment ascertain ascertains ascertaining ascertained determine determines determining determined determination discover discovers discovering discovered discovery learn learns learning learned (find finds finding) ADJ out found certain confirm confirms confirming confirmed confirmation) WITH (lack lacks lacking lacked without) WITH ((parent child primary secondary top bottom) ADJ (application program app)) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L398	177	(network net grid web cloud LAN WAN) SAME	(US-PGPUB; USPAT; EPO; JPO;	OR	ON	ON	2022/04/13 12:54 PM

		((lack lacks lacking lacked without) WITH ((master slave parent child primary secondary top bottom) ADJ (application program app))) AND @ad<"20130911" NOT (L194 L195)	DERWENT)				
L399	2791	(network net grid web cloud LAN WAN) SAME ((lack lacks lacking lacked without) WITH ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L400	1721	(network net grid web cloud LAN WAN) WITH ((lack lacks lacking lacked without) WITH ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L401	756	(network net grid web cloud LAN WAN) WITH ((lack lacks lacking lacked without) NEAR5 ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L402	247	(network net grid web cloud LAN WAN) NEAR5 ((lack lacks lacking lacked without) NEAR3 ((support	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM

		supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR3 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)					
L403	60	("20010050923"|"20020031212"|"20020037000"|"20020038282"|"20020042769"|"20020062285"|"20020064167"|"20020080719"|"20020087887"|"20020097150"|"20020120757"|"20020124096"|"20020143548"|"20020150110"|"20020152325"|"20020156844"|"20020166053"|"20020173303"|"20020176404"|"20020178087"|"20020184310"|"20030009565"|"20030031210"|"20030035441"|"20030043764"|"20030044020"|"20030046056"|"20030046585"|"20030061025"|"20030061481"|"20030072485"|"20030076815"|"20030078858"|"20030088676"|"20030105812"|"20030110047"|"20030115251"|"20030126213"|"20030135569"|"20030137939"|"20030158722"|"20030163525"|"20030163697"|"20030172145"|"20030174707"|"20030177186"|"20030177422"|"20030187650"|"20030202480"|"20030212772"|"20030214955"|"20030217171"|"20030217318"|"20030220121"|"20030229715"|"20040005877"|"20040024879"|"20040034776"|"20040034793"|"20040039781").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM
L404	110	("20040044517"|"20040052234"|"20040062267"|"20040068567"|"20040100973"|"20040103212"|"20040128554"|"20040133689"|"200401392	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		25"|"20040139228"|"20 040139230"|"20040143 678"|"20040148434"|"2 0040153858"|"2004015 8471"|"20040162871"|" 20040193599"|"200402 03834"|"20040213184"| "20040228279"|"20040 240399"|"20040249885 "|"20040249953"|"2004 0260952"|"2004026752 7"|"20040267938"|"200 40268257"|"200500049 82"|"20050008024"|"20 050015502"|"20050033 843"|"20050033985"|"2 0050050227"|"2005007 1481"|"20050086309"|" 20050091407"|"200501 05524"|"20050119005"| "20050120073"|"20050 130650"|"20050132009 "|"20050136911"|"2005 0138119"|"2005013812 8"|"20050143105"|"200 50144288"|"200501877 81"|"20050187957"|"20 050195802"|"20050198 499"|"20050201357"|"2 0050201485"|"2005020 8947"|"20050220017"|" 20050246193"|"200502 49196"|"20050254440"| "20050270992"|"20050 286519"|"20060002355 "|"20060062180"|"2006 0069775"|"2006007250 6"|"20060120375"|"200 60121902"|"200601219 86"|"20060148516"|"20 060165029"|"20060168 643"|"20060171534"|"2 0060182100"|"2006018 3476"|"20060187926"|" 20060195402"|"200602 03750"|"20060205436"| "20060218624"|"20060 230166"|"20060233117 "|"20060246903"|"2006 0258289"|"2007001692 1"|"20070019545"|"200 70025270"|"200700787 85"|"20070082671"|"20 070110043"|"20070111 794"|"20070116224"|"2 0070130253"|"2007013 6459"|"20070165629"|" 20070190987"|"200702					

		06563"|"20070239892"|"20070253435"|"20070260359"|"20070274276"|"20070280253"|"20070294626"|"20070297430"|"20080005328"|"20080019285"|"20080032695"|"20080046984"|"20080069105"|"20080080392"|"20080091813"|"20080123685"|"20080130639").PN.					
L405	130	("20080168440"|"20080192756"|"20080235362"|"20080235511"|"20080244718"|"20080250408"|"20080273541"|"20080320096"|"20080320565"|"20090003322"|"20090006076"|"20090052399"|"20090055473"|"20090088150"|"20090136016"|"20090156217"|"20090182815"|"20090192976"|"20090234967"|"20090240821"|"20090257433"|"20090300673"|"20090327516"|"20100011108"|"20100011111"|"20100049980"|"20100058353"|"20100077023"|"20100107205"|"20100174783"|"20100191954"|"20100223047"|"20100279670"|"20100299150"|"20100299313"|"20100312832"|"20100312897"|"20110040836"|"20110099612"|"20110122864"|"20110141220"|"20110145687"|"20110307556"|"20110314134"|"20110320821"|"20120078609"|"20120124191"|"20120263144"|"20130067004"|"20130106989"|"20130111064"|"20130125145"|"20150026700"|"5442637"|"5761309"|"5790637"|"5818447"|"5889762"|"6031818"|"6128283"|"6141687"|"6161082"|"6195694"|"6202084"|"6219638"|"6298129"|"6311150"|"6343067"|"6360196"|"6389016"|"6438376"|"6473	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		425"|"6574668"|"66061 12"|"6741691"|"675418 1"|"6766373"|"6826613" |"6836765"|"6842460"|" 6850769"|"6898413"|"6 912278"|"6940826"|"69 63555"|"6975718"|"698 7756"|"6999575"|"6999 932"|"7006508"|"70101 09"|"7013155"|"707952 9"|"7080158"|"7092385" |"7117526"|"7123710"|" 7184415"|"7185114"|"7 272377"|"7302496"|"73 04985"|"7345999"|"734 6044"|"7353252"|"7353 255"|"7412374"|"74572 79"|"7477282"|"748724 8"|"7512652"|"7542472" |"7564843"|"7570743"|" 7574523"|"7590758"|"7 613171"|"7623476"|"76 23516"|"7656870"|"766 4495"|"7769881"|"7774 495"|"7778187"|"77828 66"|"7917584"|"800958 6"|"8065418"|"8200796" |"8407576").PN.					
L406	37	("20010050923"|"20020 143548"|"20020156844 "|"20030202480"|"2004 0034776"|"2004010321 2"|"20050130650"|"200 50132009"|"200501984 99"|"20050201485"|"20 060168643"|"20060258 289"|"20070136459"|"2 0070165629"|"2007020 6563"|"20070297430"|" 20080273541"|"200900 52399"|"20090240821"| "20090327516"|"20110 122864"|"20110314134 "|"6128283"|"7079529"|" 7092385"|"7487248"|"7 623476"|"20030177422 "|"20050033985"|"2005 0091407"|"6850769"|"7 304985"|"20020037000 "|"20020064167"|"2003 0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138 128"|"20060072506"|"2 0060120375"|"2007008	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003 4793"|"20050195802"|" 20070110043"|"200803 20096"|"6987756"|"718 4415"|"7272377"|"7412 374"|"7477282"|"75126					

		52"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L407	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"20080005328"|"20090182815"|"20100312832"|"20110040	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20 020178087"|"20030220 121"|"20050086309"|"2 0050138119"|"2006014 8516"|"5790637"|"6473 425").PN.					
L408	311	("20010050923"|"20020 143548"|"20020156844 "|"20030202480"|"2004 0034776"|"2004010321 2"|"20050130650"|"200 50132009"|"200501984 99"|"20050201485"|"20 060168643"|"20060258 289"|"20070136459"|"2 0070165629"|"2007020 6563"|"20070297430"|" 20080273541"|"200900 52399"|"20090240821"| "20090327516"|"20110 122864"|"20110314134 "|"6128283"|"7079529"|" 7092385"|"7487248"|"7 623476"|"20030177422 "|"20050033985"|"2005 0091407"|"6850769"|"7 304985"|"20020037000 "|"20020064167"|"2003 0110047"|"2003017214 5"|"20030214955"|"200 40139230"|"200401538 58"|"20040268257"|"20 050136911"|"20050138	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		128"|"20060072506"|"2 0060120375"|"2007008 2671"|"20070130253"|" 20110145687"|"621963 8"|"6754181"|"6999575" |"7185114"|"7590758"|" 7623516"|"7774495"|"2 0030035441"|"2003007 6815"|"20030217171"|" 20040260952"|"200500 50227"|"5442637"|"588 9762"|"6343067"|"7080 158"|"20020031212"|"2 0020062285"|"2003004 6585"|"20040052234"|" 20040139228"|"200402 67527"|"20050187781"| "20060121902"|"20060 171534"|"20060187926 "|"20070253435"|"2008 0032695"|"2008016844 0"|"20090055473"|"201 00049980"|"201001072 05"|"20100312897"|"20 110099612"|"20120263 144"|"6141687"|"68984 13"|"7010109"|"734599 9"|"7457279"|"7542472" |"7570743"|"8065418"|" 20020080719"|"200201 76404"|"20030031210"| "20030115251"|"20070 016921"|"6836765"|"20 020042769"|"20020124 096"|"20030009565"|"2 0030043764"|"2003010 5812"|"20040128554"|" 20050004982"|"200501 20073"|"20050220017"| "20060062180"|"20060 182100"|"20060205436 "|"20070019545"|"2008 0091813"|"2008013063 9"|"20090003322"|"200 90156217"|"200902349 67"|"20090257433"|"20 100011108"|"20100011 111"|"20100279670"|"2 0100299150"|"2010029 9313"|"7346044"|"7353 252"|"7574523"|"76568 70"|"20020087887"|"20 020120757"|"20020184 310"|"20030046056"|"2 0030163697"|"2004003 4793"|"20050195802"|" 20070110043"|"200803 20096"|"6987756"|"718					

		4415"|"7272377"|"7412374"|"7477282"|"7512652"|"20020097150"|"20020152325"|"20030088676"|"20030126213"|"20030158722"|"20030163525").PN.					
L409	36	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"20050105524"|"20050270992"|"20070078785"|"20070111794"|"20070239892"|"20080019285"|"20080080392"|"20090136016"|"6298129"|"6360196"|"6826613"|"7117526"|"7302496"|"7664495"|"7778187"|"8009586"|"20020166053"|"20030044020"|"20030072485"|"20030174707"|"20050119005"|"20050249196"|"20090192976"|"6999932"|"7353255"|"20020150110"|"20040039781"|"20040044517"|"20040062267"|"20040148434"|"20040213184"|"20050015502"|"20050144288"|"20050201357"|"20060195402"|"20060218624"|"20060230166"|"20070116224"|"20070274276"|"200800053	(USPAT; USOCR)	OR	ON	ON	2022/04/13 12:54 PM

		28"|"20090182815"|"20100312832"|"20110040836"|"5761309"|"6202084"|"6389016"|"6438376"|"6741691"|"6940826"|"7769881"|"20030137939"|"20040139225"|"20060183476"|"20060246903"|"20080069105"|"6031818"|"6311150"|"6574668"|"6842460"|"20020038282"|"20030061025"|"20030061481"|"20030135569"|"20030177186"|"20030217318"|"20030229715"|"20040133689"|"20040143678"|"20050187957"|"20050208947"|"20050254440"|"20060121986"|"20060165029"|"20080235362"|"20080235511"|"20090006076"|"20090088150"|"20090300673"|"20100223047"|"5818447"|"6161082"|"6912278"|"7123710"|"7917584"|"20020178087"|"20030220121"|"20050086309"|"20050138119"|"20060148516"|"5790637"|"6473425").PN.					
L410	286	("20030187650"|"20040024879"|"20040068567"|"20040203834"|"20040240399"|"20050071481"|"20050143105"|"20050246193"|"20060002355"|"20060069775"|"20060203750"|"20070025270"|"20070190987"|"20070260359"|"20080123685"|"20080250408"|"20100077023"|"6963555"|"6975718"|"7006508"|"7013155"|"7564843"|"7782866"|"20040100973"|"20040158471"|"20040162871"|"20040228279"|"20040267938"|"20050008024"|"20050286519"|"20080192756"|"6766373"|"7613171"|"20020173303"|"20030078858"|"20030212772"|"20040005877"|"20040249953"|"20050033843"|"	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/13 12:54 PM

		20050105524"|"200502 70992"|"20070078785"| "20070111794"|"20070 239892"|"20080019285 "|"20080080392"|"2009 0136016"|"6298129"|"6 360196"|"6826613"|"71 17526"|"7302496"|"766 4495"|"7778187"|"8009 586"|"20020166053"|"2 0030044020"|"2003007 2485"|"20030174707"|" 20050119005"|"200502 49196"|"20090192976"| "6999932"|"7353255"|"2 0020150110"|"2004003 9781"|"20040044517"|" 20040062267"|"200401 48434"|"20040213184"| "20050015502"|"20050 144288"|"20050201357 "|"20060195402"|"2006 0218624"|"2006023016 6"|"20070116224"|"200 70274276"|"200800053 28"|"20090182815"|"20 100312832"|"20110040 836"|"5761309"|"62020 84"|"6389016"|"643837 6"|"6741691"|"6940826" |"7769881"|"200301379 39"|"20040139225"|"20 060183476"|"20060246 903"|"20080069105"|"6 031818"|"6311150"|"65 74668"|"6842460"|"200 20038282"|"200300610 25"|"20030061481"|"20 030135569"|"20030177 186"|"20030217318"|"2 0030229715"|"2004013 3689"|"20040143678"|" 20050187957"|"200502 08947"|"20050254440"| "20060121986"|"20060 165029"|"20080235362 "|"20080235511"|"2009 0006076"|"2009008815 0"|"20090300673"|"201 00223047"|"5818447"|" 6161082"|"6912278"|"7 123710"|"7917584"|"20 020178087"|"20030220 121"|"20050086309"|"2 0050138119"|"2006014 8516"|"5790637"|"6473 425").PN.					

L411	65	(L201 L202 L203) NOT (L204 L205 L206 L207 L208)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2022/04/13 12:54 PM
L414	608	L164	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:10 AM
L415	608	L165	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L416	0	L128 AND without NEAR5 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L417	0	L167	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:10 AM
L418	0	L168	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L419	510	without WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L420	510	L170	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:10 AM

L421	510	L171	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L422	208	(instead place missing skipping) WITH (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved) WITH (superblock super-block super ADJ block function ADJ block function-block functionblock funblock program-block program ADJ block application ADJ block appblock app-block application-block) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L423	208	L173	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:10 AM
L424	208	L174	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L425	11	(without) NEAR2 (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L426	11	L176	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:10 AM
L427	11	L177	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L428	41	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM

		change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173)					
L429	41	L179	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:10 AM
L430	41	L180	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L431	30	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173 L176)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L432	30	L182	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:10 AM
L433	30	L183	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L434	5	(without instead place missing skipping) WITH (context NEAR3 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173 L176 L182)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L435	5	L185	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:10 AM
L436	5	L186	(US-PGPUB; USPAT;	OR	ON	ON	2024/08/22

			EPO; JPO; DERWENT)				10:10 AM
L437	18	without ADJ switching NEAR3 context WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L438	18	L188	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:10 AM
L439	18	L189	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L440	11	establishing WITH function WITH block WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L441	11	L191	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:10 AM
L442	11	L192	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L443	62	(establish establishes establishing established establishment ascertain ascertains ascertaining ascertained determine determines determining determined determination discover discovers discovering discovered discovery learn learns learning learned (find finds finding) ADJ out found certain confirm confirms confirming confirmed confirmation) WITH (lack lacks lacking lacked without) WITH (superblock super-block super ADJ block (parent child primary secondary top bottom) ADJ block) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L444	61	(establish establishes establishing established establishment ascertain ascertains ascertaining ascertained determine determines determining determined determination discover discovers discovering discovered discovery learn learns learning learned (find finds	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM

		finding) ADJ out found certain confirm confirms confirming confirmed confirmation) WITH (lack lacks lacking lacked without) WITH ((parent child primary secondary top bottom) ADJ (application program app)) AND @ad<"20130911"					
L445	179	(network net grid web cloud LAN WAN) SAME ((lack lacks lacking lacked without) WITH ((master slave parent child primary secondary top bottom) ADJ (application program app))) AND @ad<"20130911" NOT (L194 L195)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L446	2789	(network net grid web cloud LAN WAN) SAME ((lack lacks lacking lacked without) WITH ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L447	1721	(network net grid web cloud LAN WAN) WITH ((lack lacks lacking lacked without) WITH ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L448	756	(network net grid web cloud LAN WAN) WITH ((lack lacks lacking lacked without) NEAR5 ((support supports supporting supported	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM

		supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)					
L449	247	(network net grid web cloud LAN WAN) NEAR5 ((lack lacks lacking lacked without) NEAR3 ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR3 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:10 AM
L450	11	(without) NEAR2 (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L451	11	L176	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:31 AM
L452	11	L177	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L453	41	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM

		(L170 L173)					
L454	41	L179	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:31 AM
L455	41	L180	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L456	30	(without instead place missing skipping) WITH (context NEAR1 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173 L176)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L457	30	L182	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:31 AM
L458	30	L183	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L459	5	(without instead place missing skipping) WITH (context NEAR3 (switch switches switching switched swap swaps swapping swapped change changes changing changed move moves moving moved)) WITH (code ADJ block code-block code ADJ section code-section layer) AND @ad<"20130911" NOT (L170 L173 L176 L182)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L460	5	L185	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:31 AM
L461	5	L186	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L462	18	without ADJ switching NEAR3 context WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L463	18	L188	(US-PGPUB; USPAT; EPO; JPO;	OR	ON	ON	2024/08/22 10:31 AM

			DERWENT; IBM_TDB)				
L464	18	L189	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L465	11	establishing WITH function WITH block WITH superblock	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L466	11	L191	(US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/22 10:31 AM
L467	11	L192	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L468	62	(establish establishes establishing established establishment ascertain ascertains ascertaining ascertained determine determines determining determined determination discover discovers discovering discovered discovery learn learns learning learned (find finds finding) ADJ out found certain confirm confirms confirming confirmed confirmation) WITH (lack lacks lacking lacked without) WITH (superblock super-block super ADJ block (parent child primary secondary top bottom) ADJ block) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L469	61	(establish establishes establishing established establishment ascertain ascertains ascertaining ascertained determine determines determining determined determination discover discovers discovering discovered discovery learn learns learning learned (find finds finding) ADJ out found certain confirm confirms confirming confirmed confirmation) WITH (lack lacks lacking lacked without) WITH ((parent child primary secondary top bottom)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM

		ADJ (application program app)) AND @ad<"20130911"					
L470	179	(network net grid web cloud LAN WAN) SAME ((lack lacks lacking lacked without) WITH ((master slave parent child primary secondary top bottom) ADJ (application program app))) AND @ad<"20130911" NOT (L194 L195)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L471	2789	(network net grid web cloud LAN WAN) SAME ((lack lacks lacking lacked without) WITH ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L472	1721	(network net grid web cloud LAN WAN) WITH ((lack lacks lacking lacked without) WITH ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L473	756	(network net grid web cloud LAN WAN) WITH ((lack lacks lacking lacked without) NEAR5 ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR5 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM

L474	247	(network net grid web cloud LAN WAN) NEAR5 ((lack lacks lacking lacked without) NEAR3 ((support supports supporting supported supporter maintain maintains maintaining maintained maintanence) NEAR3 (application program app))) AND @ad<"20130911" NOT (L194 L195 L196)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:31 AM
L475	124	("5818447" "6031818" "6128283" "6148336" "6161082" "6298129" "6311150" "6389016" "6438376" "6754181" "6766373" "6898413" "6999932" "7006508" "7010109" "7092385" "7123710" "7185114" "7272377" "7302496" "7304985" "7345999" "7346044" "7353255" "7412374" "7487248" "7542472" "7564843" "7570743" "7574523" "7590758" "7623476" "7623516" "7656870" "7664495" "7769881" "7774495" "7778187" "7782866" "7917584" "8065418" "20090254753" "20120064976").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/22 10:46 AM
L476	36	(audio/video audio-video audio ADJ video AV A/V) AND (without missing ommitting lacking) WITH (superblock super ADJ block super-block) AND @ad<"20130911"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/23 12:00 PM
L477	0	(audio/video audio-video audio ADJ video AV A/V) AND (without missing ommitting lacking) WITH (superblock super ADJ block super-block) AND @ad<"20130911" NOT L476	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/23 12:05 PM
L478	186	(without missing ommitting lacking)	(US-PGPUB; USPAT; EPO; JPO;	OR	ON	ON	2024/08/23 12:05 PM

		WITH (superblock super ADJ block super-block) AND @ad<"20130911" NOT L476	DERWENT)				
L479	388	(audio/video audio-video audio ADJ video AV A/V) AND (without missing ommitting lacking) WITH (support$3 assist$3 assistance help$3 aid$3) WITH (block) AND @ad<"20130911" NOT (L476 L478)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/23 12:32 PM
L480	42	(audio/video audio-video audio ADJ video AV A/V) AND (need$3 require$3 necessitat$3 demand$3) WITH ((network) near2 (interface port junction)) WITH (block) AND @ad<"20130911" NOT (L476 L478)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/23 01:22 PM
L481	343	(need$3 require$3 necessitat$3 demand$3) WITH ((network) near2 (interface port junction)) WITH (block) AND @ad<"20130911" NOT (L476 L478 L480)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/23 01:27 PM
L482	103	(need$3 require$3 necessitat$3 demand$3) WITH ((network) near3 (interface port junction)) WITH (block) AND @ad<"20130911" NOT (L476 L478 L480 L481)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/24 08:06 AM
L483	89	(need$3 require$3 necessitat$3 demand$3) WITH ((network) near5 (interface port junction)) WITH (block) AND @ad<"20130911" NOT (L476 L478 L480 L481 L482)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/24 08:43 AM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp

N34	12	719/313,319,329.ccls.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/03/16 11:01 AM
N35	23	719/313,319,329.ccls. G06F9/54 G06F9/541 G06F9/542 NOT N34	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/03/16 11:15 AM
N125	4	function ADJ block WITH mobile WITH superblock	(US-PGPUB; USPAT)	OR	ON	ON	2016/06/13 09:27 AM
N126	2	function ADJ block WITH notifying WITH superblock	(US-PGPUB; USPAT)	OR	ON	ON	2016/06/13 09:29 AM
N127	2	switching ADJ context WITH establishing WITH superblock	(US-PGPUB; USPAT)	OR	ON	ON	2016/06/13 09:30 AM
N210	23	audio/video NEAR3 functionality WITH block	(US-PGPUB; USPAT)	OR	ON	ON	2016/12/22 09:43 AM
N211	4	superblock NEAR5 audio/video	(US-PGPUB; USPAT)	OR	ON	ON	2016/12/22 09:44 AM
N212	1	A/V ADJ service WITH superblock	(US-PGPUB; USPAT)	OR	ON	ON	2016/12/22 09:45 AM
N213	0	provide ADJ audio WITH service	(US-PGPUB; USPAT)	OR	ON	ON	2016/12/22 09:46 AM

Enhanced-performance **video** transmission in multicode CDMA wireless systems using **a** feedback error control scheme

MR Hueda, C Rodriguez... - GLOBECOM'01. IEEE ..., 2001 - ieeexplore.ieee.org

... Because real time **applications** such as **video** require a dedicated ... in slot i given that the **superblock** in slot ix was ... that NSVBR **provides** a good tradeoff between efficacy and complexity. ...

☆ Save 99 Cite Cited by 28 Related articles

Exploiting content-based networking for **video** streaming

VS Wold Eide, F Eliassen, JA Michaelsen - Proceedings of the 12th ..., 2004 - dl.acm.org

... However, a single multicast stream **provides** clients with no selectivity. ... The **video** streaming **software** presented here is part of our ... A 384 × 288 pixel frame and a **superblock** size of 8 × 6 ...

☆ Save 99 Cite Cited by 5 Related articles All 5 versions

Applications of Rapid Prototyping to the design and testing of UAV Flight Control System

JA Komlosy III - 1998 - core.ac.uk

... Product Family **provides** an integrated set of **software** tools for ... SystemBuild also **provides** extensive simulation **services**. The ... **SuperBlocks** are made up of function blocks that come from ...

☆ Save 99 Cite Cited by 11 Related articles All 3 versions »

Laoram: **A** look ahead oram architecture for training large embedding tables

R Rajat, Y Wang, M Annavaram - Proceedings of the 50th Annual ..., 2023 - dl.acm.org

... LAORAM, a dynamic **superblock** formation technique that ... as inputs and **creates superblocks** and assigns paths as per the ... observations **apply** to the normal tree with a **superblock** size ...

☆ Save 99 Cite Cited by 8 Related articles All 4 versions

A critical evaluation of image and **video** indexing techniques in the compressed domain

MK Mandal, F Idris, S Panchanathan - Image and Vision Computing, 1999 - Elsevier

... on Wold decomposition which **provides** a description of textures ... The **superblocks** are encoded by a combination of wavelets ... potential **applications** in low bit-rate **video** coding and **video** ...

☆ Save 99 Cite Cited by 249 Related articles All 8 versions

Interdisciplinary Telecommunications **Program** The University of Colorado at Boulder

SS Lee - EDRS PRICE, 1996 - ERIC

... from one end of the **super-block**" for that country ... **services** and thus benefit from new opportunities, an adaptable and an affordable universal **service** framework should be **established**. ...

☆ Save 99 Cite Related articles »

The SVT-AV1 encoder: overview, features and speed-quality tradeoffs

..., N Mahdi, C Nouira, A Naghdinezhad... - **Applications** of ..., 2020 - spiedigitallibrary.org

... , the **superblock**-based multipass partitioning allows the SVT-AV1 encoder to search the best partition for each **superblock** ... to a C sample **application** [22] that **determines** the convex hull ...

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Artificial Intelligence for .NET: Speech, Language, and Search

N Pathak - ... Smart **Applications** with Microsoft Cognitive **Services** ..., 2017 - Springer

... This book aims to remove the anxiety by creating a cognitive **application** with a few lines of ... **provides** great context for understanding and best practices about planning your **application** ...

☆ Save 99 Cite Cited by 7 Related articles All 6 versions »

Digital S **video** compression processing and recording

Y Nagaoka, K Honma, D Gifford... - ... Convention, IBS 97 ..., 1997 - ieeexplore.ieee.org

... The upgraded transport **provides** rugged and reliable **service** ... succeeding **video** frame, and alternate odd-even **super block** ... requirements of many **video** recording **applications**. Digital-S ...

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The dictionary of computer graphics and virtual reality

R Latham - 2012 - books.google.com

... A **software** package compiled and linked directly and entirely from source code, usually for a formal release so that the correspondence to known source code is **established**. ... **services**. ...

☆ Save 99 Cite Cited by 56 Related articles All 4 versions »

A technical overview of AV1

…, B Li, D Mukherjee, CH Chiang, A Grange… - Proceedings of the …, 2021 - ieeexplore.ieee.org

… **provides** insight into the AOMedia **Video** 1 (AV1) **video** … **video applications**, including **video**-on-demand (VoD) **service**, … across **superblocks** within a frame due to the variations in **video** …

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Paper VII

MRV Streaming - … Real-Time Distributed and Parallel **Video** …, 2005 - web-backend.simula.no

… Content-based networking **provides** rich routing capabilities as … Then we present the **video** streaming **software** and … -4, eg, each **superblock** may be encoded as a **video** object plane. The …

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'Seeing Like a Citizen': Rethinking City Street Transformations through the Lens of Epistemic Justice: Edited by Emilia Smeds and Ersilia Verlinghieri

…, J Koosis, JJT Connolly, A Polgár… - Planning Theory & …, 2023 - Taylor & Francis

… institutionalised NPP by **establishing** a new 'OneNYC Plaza Equity **Program**,' which for the … real innovation of **superblocks** lies in the evolution of its goals. The **Superblocks program** was …

☆ Save 99 Cite Cited by 7 Related articles All 5 versions

Shading atlas streaming

JH Mueller, P Voglreiter, M Dokter, T Neff… - ACM Transactions on …, 2018 - dl.acm.org

… the last **superblock** for each level and top up the **superblock** in … **determines** whether its request is served by the allocated … Then, we **apply** H.264 **video** coding, with CAVLC entropy coding…

☆ Save 99 Cite Cited by 44 Related articles All 2 versions

Cloud media **video** encoding: review and challenges

W Molina-Rivera, M Garcia-Pineda … - … Tools and Applications, 2024 - Springer

… **services** for **video** encoding, it can be affirmed that cloud … This section first **provides** a brief overview of **video** encoding, … \) pixels, but these **superblocks** can be divided into smaller blocks …

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The performance of PC solid-state disks (SSDs) as a function of bandwidth, concurrency, device architecture, and system organization

C Dirik, B Jacob - ACM SIGARCH Computer Architecture News, 2009 - dl.acm.org

… **applications** such as browsing, listening to music, watching … a **superblock** becomes bad, all blocks in that **superblock** are … , one configuration that **provides** the best write performance may …

☆ Save 99 Cite Cited by 292 Related articles All 10 versions

Toward sustainable public housing: A comparison of social aspects in public housing in the United State and Libya

A Sharafeddin, I Arocho - Habitat International, 2022 - Elsevier

… It **provides** recommendations that decision-makers can use to improve the PH situations. It also **provides application** … These PH projects were high-rise buildings in **superblocks** …

☆ Save 99 Cite Cited by 16 Related articles

HERMES: File system support for multimedia streaming in information home appliance

Y Won, J Park, S Ma - Eurasian Conference on Information and …, 2002 - Springer

… **provides** a number of API's specific to mpeg-4 file format. It can greatly facilitate the development of multimedia **applications**. For … **Superblock** is located at the first block of the file system …

☆ Save 99 Cite Cited by 5 Related articles All 10 versions

The Megadoc Image Document Management System

R Hasenaar, JW Meulus, TH van Hunnik - w Multimedia Application . . ., 1993 - Citeseer

... management and to database **services** for document indexing. ... , **superblock**, ancl the functional contents of directory entries.'... ules to the target system and **creates** the configuration files. ...

☆ Save 99 Cite Related articles »

System support for providing integrated **services** from networked multimedia storage servers

R Wijayaratne, ALN Reddy - Proceedings of the ninth ACM international ..., 2001 - dl.acm.org

... of Prism **provides** three levels of **service**: deadline guarantees for periodic **applications**, beat... system **super block** data structure. When describing the Prism architecture we explained that ...

☆ Save 99 Cite Cited by 21 Related articles All 5 versions

Modern analog and digital communication systems development using GNU Radio **with** USRP

R Gandhiraj, KP Soman - Telecommunication Systems, 2014 - Springer

... GNU Radio is an open source **software** toolkit which **provides** a ... Radio blocks to be grouped into a single GRC **super-block**. ... **provides** information about the various possible **services** ...

☆ Save 99 Cite Cited by 53 Related articles All 7 versions

Efficient partial retransmission ARQ strategy **with** error detection codes by feedback channel

HS Cheng, G Fairhurst, N Samaraweera - IEE Proceedings-Communications, 2000 - IET

... successful retransmission and **provides** an adaptive overhead. ... **superblock** is a supervisory cell which carries the **superblock** ... multimedia **applications** (eg voiceover-IP and packet **video**) ...

☆ Save 99 Cite Cited by 12 Related articles All 6 versions

DigiCipher: an update on progress made in the United States

K Kelkar - 1992 IBC International Broadcasting Convention, 1992 - ieeexplore.ieee.org

... **superblock**, a motion vector which points to a location in the previous frame. That location **provides** a **superblock** with ... to be used reliably for cable transmission **applications**. This system ...

☆ Save 99 Cite Related articles

Submitted for the BSc in Computer Science **with** Games Development April 2011

M Harris - Development, 2011 - anonymoustipster.com

... The aim of this project is to implement a **program** that will create and ... that a new **SuperBlock** is needed, this class **creates** a new ... If **care** isn't taken, then the **application** spends more time ...

☆ Save 99 Cite Related articles »

File system for Real Time **Applications with** Continuous Media

D Gupta, S Divakaran - 2009 - Dhirubhai Ambani Institute of ...

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A Data-enabled Participatory **Application** towards Better Engagement and Neighborhood Accessibility

I Giraud, G Artopoulos - papers.cumincad.org

... The **application provides** a data-enabled interactive medium ... and with the aim to provide better **services** to citizens. However, ... network of its trademark **superblocks** strives to increase the ...

☆ Save 99 Cite Related articles All 2 versions »

Differentiated storage **services**

M Mesnier, F Chen, T Luo, JB Akers - ... of the twenty-third acm symposium ..., 2011 - dl.acm.org

... Our immediate **application** is caching. We present filesystem ... differentiate **superblocks** and block bitmaps, as these struc... The work presented in this paper **provides** a finer granularity ...

☆ Save 99 Cite Cited by 158 Related articles All 18 versions

Distributed Networks as Organizational Generator

DJ Pol - 2007 - rave ohiolink.edu

... because of the relationships **established** between **program**, use, ... **Superblock** is a maximized **program** and site extrusion. This ... be other **program** elements such as retail or food **services**, ...

☆ Save 99 Cite Related articles All 2 versions »

mSSL: A framework for trusted and incentivized peer-to-peer data sharing between distrusted and selfish clients

J Li - Peer-to-Peer Networking and Applications, 2011 - Springer

... or digital money for its **service** securely and reliably. Our ... , and introduce security functions mSSL currently **provides** for them. ... first block, a large **superblock** can easily cause a significant ...

☆ Save 99 Cite Cited by 9 Related articles All 8 versions »

Next-generation **video** coding and streaming

B Bing - 2015 - books.google.com

... Hulu **provides** both free TV and SVOD **services**. It handles ... Google also **provides** a voice-recognition **application** that ... The size of these blocks may range from **superblocks** (64×64 ...

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Bibliographic Data

Application No: 18/432,148

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☐ No ☐ Met After Allowance

Verified and Acknowledged: /CRAIG C DORAIS/ (Examiner's Signature) | (Initials)

Title: SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
02/05/2024	719	2194	DAMA60-35891
RULE			

APPLICANTS

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CONTINUING DATA

This application is a CON of 18099175 01/19/2023 PAT 11930362

18099175 is a CON of 17109488 12/02/2020 PAT 11576046

17109488 is a CON of 16543689 08/19/2019 PAT 10863357

16543689 is a CON of 15431046 02/13/2017 PAT 10387220

15431046 is a CON of 15297328 10/19/2016 PAT 9578092

15297328 is a CON of 15049891 02/22/2016 PAT 9491233

15049891 is a CON of 14690619 04/20/2015 PAT 9270744

14690619 is a CON of 14024027 09/11/2013 PAT 9027032

14024027 has PRO of 61846958 07/16/2013

FOREIGN APPLICATIONS

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Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	18432148
	Filing Date	2024-02-05
	First Named Inventor	Sivakumar CHATURVEDI
	Art Unit	
	Examiner Name	
	Attorney Docket Number	DAMA60-35891

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5818447	A	1998-10-06	Wolf et al.	
	2	6031818	A	2000-02-29	Lo et al.	
	3	6128283	A	2000-10-03	Sabaa et al.	
	4	6148336	A	2000-11-14	Thomas et al.	
	5	6161082	A	2000-12-12	Goldberg et al.	
	6	6298129	B1	2001-10-02	Culver et al.	
	7	6311150	B1	2001-10-30	Ramaswamy et al.	
	8	6389016	B1	2002-05-14	Sabaa et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.C.D/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18432148
	Filing Date	2024-02-05
	First Named Inventor	Sivakumar CHATURVEDI
	Art Unit	
	Examiner Name	
	Attorney Docket Number	DAMA60-35891

	9	6438376	B1	2002-08-20	Elliott et al.	
	10	6754181	B1	2004-06-22	Elliott et al.	
	11	6766373	B1	2004-07-20	Beadle et al.	
	12	6898413	B2	2005-05-24	Yip et al.	
	13	6999932	B1	2006-02-14	Zhou	
	14	7006508	B2	2006-02-28	Bondy et al.	
	15	7010109	B2	2006-03-07	Gritzer et al.	
	16	7092385	B2	2006-08-15	Gallant et al.	
	17	7123710	B2	2006-10-17	Ravishankar	
	18	7185114	B1	2007-02-27	Hariharasubrahmanian	
	19	7272377	B2	2007-09-18	Cox et al.	

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	Art Unit	
	Examiner Name	
	Attorney Docket Number	DAMA60-35891

	20	7302496	B1	2007-11-27	Metzger	
	21	7304985	B2	2007-12-04	Sojka et al.	
	22	7345999	B2	2008-03-18	Su et al.	
	23	7346044	B1	2008-03-18	Chou et al.	
	24	7353255	B2	2008-04-01	Acharya et al.	
	25	7412374	B1	2008-08-12	Seiler et al.	
	26	7487248	B2	2009-02-03	Moran et al.	
	27	7542472	B1	2009-06-02	Gerendai et al.	
	28	7564843	B2	2009-07-21	Manjunatha et al.	
	29	7570743	B2	2009-08-04	Barclay et al.	
	30	7574523	B2	2009-08-11	Traversat et al.	

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	Examiner Name	
	Attorney Docket Number	DAMA60-35891

	31	7590758	B2	2009-09-15	Takeda et al.	
	32	7623476	B2	2009-11-24	Ravikumar et al.	
	33	7623516	B2	2009-11-24	Chaturvedi et al.	
	34	7656870	B2	2010-02-02	Ravikumar et al.	
	35	7664495	B1	2010-02-16	Bonner et al.	
	36	7769881	B2	2010-08-03	Matsubara et al.	
	37	7774495	B2	2010-08-10	Pabla et al.	
	38	7778187	B2	2010-08-17	Chaturvedi et al.	
	39	7782866	B1	2010-08-24	Walsh et al.	
	40	7917584	B2	2011-03-29	Arthursson	
	41	8009586	B2	2011-08-30	Chaturvedi et al.	

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	42	8065418	B1	2011-11-22	Abuan et al.	

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	1	20090254753	A1	2009-10-08	Atley et al.	
	2	20120064976	A1	2012-03-15	Gault et al.	

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	1	"Real-time Communications Client Application Programming Interface" Microsoft; 02 February 2007, 2 pages, https://learn.microsoft.com/en-us/previous-versions/windows/desktop/ms775892(v=vs.85).	☐
	2	Adrian Georgescu, Dan Pascu, Denis Bilenko, Luci Stanescu, Ruud Klaver, Saúl Ibarra: "SIP SIMPLE Client SDK"; 06 December 2012, 1 page, https://web.archive.org/web/20121206233135/https:/sipsimpleclient.org/.	☐

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	Examiner Name	
	Attorney Docket Number	DAMA60-35891

	3	API Libraries and SDKs, 18 June 2014, 3 pages, http://www.twilio.com/docs/libraries.	☐
	4	Baset, Salman A., and Henning Schulzrinne. "An analysis of the skype peer-to-peer internet telephony protocol."; Department of Computer Science Columbia University; September 2004; arXiv preprint cs/0412017.	☐
	5	B-Labs Software: "Bopup IM Client Software Development Kit (SDK)"; (2000-2014); 8 pages; https://www.bopup.com/onlinehelp/sdk/getting_started/overview.html.	☐
	6	B-Labs Software; Bopup IM Client SDK; "Build your Own, Integrate and Extend Existing Apps with Instant Messaging and Chat Functionality"; 4pages; 2000-2013.	☐
	7	BRENT BUCHANAN: P2P SMS IS HOT – BUT NOT ALL PLATFORMS WORK THE SAME; 6 pages, https://www.cygn.al/p2p-sms-is-hot-but-not-all-platforms-work-the-same/.	☐
	8	Bret Taylor: "The world is your JavaScript-enabled oyster"; 29 June 2005, 2 pages, https://googleblog.blogspot.com/2005/06/world-is-your-javascript-enabled_29.html.	☐
	9	Build your app on the Dropbox platform, 02 June 2016, 2pages, https://web.archive.org/web/20160602034809/https://www.dropbox.com/developers.	☐
	10	Bulk, Frank. "Final project: skype."; cs.columbia.edu; 5 May 2004; 23 pages.	☐
	11	Cerulean Studios: "Trillian (software)"; Wikipedia; 01 July 2000; 11 pages; https://en.wikipedia.org/w/index.php?title=Trillian_(software)&oldid=1157096199.	☐
	12	COMMUNICATIONS APIS IN-APP VOICE In-App Voice; https://www.vonage.com/communications-apis/in-app-voice/.	☐
	13	Craig Buckler: "Dropbox Launches a New Development API"; 24 October 2011, 5 pages, https://www.sitepoint.com/dropbox-launches-a-new-development-api/.	☐

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	Examiner Name	
	Attorney Docket Number	DAMA60-35891

	14	Cristiano Severini: "instagram-ios-sdk", (2012), 2 pages, https://cocoapods.org/pods/instagram-ios-sdk.	☐
	15	EP: Office Action of EP 14825971.6 (related application); 14 October 2019; 5 pages.	☐
	16	Facebook Developers, 29 August 2010, 1 page, https://developers.facebook.com/docs/.	☐
	17	Google Maps SDK for iOS. December 13, 2012, 1 page, https://web.archive.org/web/20130116215815/https:/developers.google.com/maps/documentation/ios/.	☐
	18	Hao Wang, Skype VoIP service-architecture and comparison, In: INFOTECH Seminar Advanced Communication Services (ASC), 2005, pp. 4, 7, 8.	☐
	19	Harry Fairhead: "Recording Skype"; 12 July 2009; 3 pages; https://www.i-programmer.info/projects/38-windows/203-recording-skype.html.	☐
	20	International Search Report and Written Opinion of PCT/US2015/43633, 2015 October 26, 21 pgs.	☐
	21	International Search Report and Written Opinion of the International Searching Authority from PCT/US2006/040312, dated March 2, 2007.	☐
	22	International Search Report and Written Opinion of the International Searching Authority from PCT/US2006/047841, dated September 12, 2008.	☐
	23	International Search Report and Written Opinion of the International Searching Authority from PCT/US2007/002424, dated August 14, 2007.	☐
	24	International Search Report and Written Opinion of the International Searching Authority from PCT/US2007/068820, dated June 11, 2008.	☐

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	25	International Search Report and Written Opinion of the International Searching Authority from PCT/US2007/068821, dated June 14, 2008.	☐
	26	International Search Report and Written Opinion of the International Searching Authority from PCT/US2007068823, dated June 1, 2008.	☐
	27	International Search Report and Written Opinion of the International Searching Authority from PCT/US2008/075141, dated March 5, 2009.	☐
	28	International Search Report and Written Opinion of the International Searching Authority from PCT/US2008/078142, dated March 27, 2009.	☐
	29	International Search Report and Written Opinion of the International Searching Authority from PCT/US2008/084950, dated April 27, 2009.	☐
	30	International Search Report and Written Opinion of the International Searching Authority from PCT/US2014/039777, dated September 30, 2014.	☐
	31	International Search Report and Written Opinion of the International Searching Authority from PCT/US2014/39782, dated October 17, 2014.	☐
	32	ISAACS, Ellen et al., "Hubbub: A sound-enhanced mobile instant messenger that supports awareness and opportunistic interactions," Proceedings of the SIGCHI Conference On Human Factors in Computing Systems; Vol. 4, Issue No. 1; Minneapolis, Minnesota; 20-25 April 2002; pgs. 179-186.	☐
	33	Jaroslav Martan: "UC API (Cius, Jabber SDK)"; (2010), 38 pages, https://www.cisco.com/c/dam/global/cs_cz/assets/expo2012/pdf/T_COL5_UC_API_JaroslavMartan.pdf.	☐
	34	JEFF TYSON, "How Instant Messaging Works", www.verizon.com/learningcenter, March 9, 2005.	☐
	35	Lawson, J., Cooke, E., Wolthuis, J.: "Twilio Quickstart Tutorials"; (2013); 2 pages; https://www.twilio.com/docs/quickstart.	☐

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	Examiner Name	
	Attorney Docket Number	DAMA60-35891

	36	Lawson, J., Cooke, E., Wolthuis, J.: "Twilio"; Wikipedia; (2008), 7 pages, https://en.wikipedia.org/wiki/Twilio.	☐
	37	Liang, Jian, Rakesh Kumar, and Keith W. Ross. "Understanding kazaa." (2004); 7 pages.	☐
	38	M. Dowler: "Skype - Voice over IP / VoIP Communication"; 07 September 2005; 3 pages; https://www.pcstats.com/articles/1563/index.html.	☐
	39	Mickey Kataria; "Google Docs Viewer on Mobile Browsers"; 28 June 2010; 3 pages; https://drive.googleblog.com/2010/06/google-docs-viewer-on-mobile-browsers.html.	☐
	40	Nick Denker: "ABTO Software's VoIP SIP SDK solutions"; April 2012, 4 pages, https://web.archive.org/web/20120422140622/https:/voipsipsdk.com/.	☐
	41	PCT: International Preliminary Report on Patentability of PCT/US14/39782; 19 April 2016; 9 pgs.	☐
	42	PCT: International Preliminary Report on Patentability of PCT/US2008/084950; 01 June 2010; 5 pgs.	☐
	43	PCT: International Preliminary Report on Patentability of PCT/US2014/039777; 28 January 2016; 8 pgs.	☐
	44	PCT: International Search Report and Written Opinion of PCT/US2015/43630 (related application), 2015 October 30, 20 pgs.	☐
	45	Peer to Peer Texting FAQ – Frequently Asked Questions & Answers by Peerly!, https://peerly.com/peer-to-peer-texting-faq/.	☐
	46	Pejman Khadivi, Terence D. Todd and Dongmei Zhao, "Handoff trigger nodes for hybrid IEEE 802.11 WLAN/cellular networks," Proc. Of IEEE International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks, pp. 164-170, 18 October 2004.	☐

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	Art Unit	
	Examiner Name	
	Attorney Docket Number	DAMA60-35891

	47	PowerGramo; Skype Recording; 2014-2015; 2pages; Freebird Team.	☐
	48	Qian Zhang; Chuanxiong Guo; Zihua Guo; Wenwu Zhu, "Efficient mobility management for vertical handoff between WWAN and WLAN," Communications Magazine, IEEE, vol. 41. issue 11, November 2003, pages: 102-108.	☐
	49	RORY BLAND, et al,"P2P Routing" 03/2002.	☐
	50	ROSENBERG, "STUN- Simple Traversal of UDP Through NAT", September 2002, XP015005058.	☐

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HERMES: File System Support for Multimedia Streaming in Information Home Appliance"

JP Youjip Won, S Ma - ... Conference, Shiraz, Iran, October 29-31 ..., 2003 - books.google.com

... **provides** a number of API's specific to mpeg-4 file format. It can greatly facilitate the development of multimedia **applications**. For ... **Superblock** is located at the first block of the file system ...

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... The container **superblock** contains information on the number of ... The Media layer **provides** the graphics and **audio** and **video** ... to build **applications** that look and **sound** great. The Core ...

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Quality comparison of the HEVC and VP9 encoders performance

P Fernandes, MV Bernardo, AM G. Pinheiro. . - ... Tools and **Applications**, 2017 - Springer

... Most of the used **video** encoding methods were **established** ... with the DSIS for mobile **video services**. Test environments are ... These **superblocks** are processed from left to right and top to ...

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The design of **a** storage server for continuous media

P Lougher, D Shepherd - The computer journal, 1993 - academic.oup.com

... immediately after the **superblock** on disk, ... of **applications** for the storage of **video** and CD quality **audio**. It is also bridged to an ethernet and **provides** a slow scan **video** and **audio service** ...

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... The **superblocks** are constituted by sets of buildings with six ... buildings for commerce, **services** and facilities. The East–... (this threshold was **established** after some **applications** to different ...

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EP Barboza, M Cirach, S Khomenko... - The Lancet Planetary ..., 2021 - thelancet.com

... of European cities (978 cities), the use of the same spatial unit of analysis for all cities (grid cells at a fine resolution of 250 m), the use of city-specific mortality rates, the **application** of ...

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A distributed storage system allowing **application** users to reserve I/O performance in advance for achieving SLA

Y Tanimura, K Hidetaka, T Kudoh... - 2010 11th IEEE/ACM ..., 2010 - ieeexplore.ieee.org

...): The storage server **provides** the actual I/O **service**. Multiple ... Client: The storage system **provides** a client API library and a ... are assigned at the back position of **superblocks**, B+tree, and ...

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Special issue on open media compression: Overview, design criteria, and outlook on emerging standards

. . ., M Wien, L Yu, A Reibman - Proceedings of the ..., 2021 - ieeexplore.ieee.org

... **applications** and **services** that have now become a commodity in our daily life. Interestingly, most of these **services** ... This article **provides** an overview of the MPEG Immersive **Video** (MIV) ...

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Transparent generic framing procedure (GFP): A protocol for efficient transport of block-coded data through SONET/SDH networks

SS Gorshe, T Wilson - IEEE Communications Magazine, 2002 - ieeexplore.ieee.org

... considerations and **applications** for transparent GFP. ... the **superblock** CRC has to be calculated over the **superblock** payload ... **provides** significant bandwidth efficiency increase while the ...

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... of a private **video** streaming web **application**. It introduces key ... VP9 organizes **video** frames into **superblocks**, which can be ... conditions and **provides** high-quality **video** and **audio** streams...

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C Feng, J Peponis - ... and Planning B: Urban Analytics and ..., 2022 - journals.sagepub.com

... grids at the scale of a **superblock**—a rectangular piece of ... applied moves—where we **apply** the operation matters. ... Our analysis **provides** an alternative way to navigate through a ...

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Urban Design for **a** Local Merchant Community: the Case of 'Uptown'Bellevue, WA

GL Ramirez - 2012 - search.proquest.com

... a **super block** that is underdeveloped with one-story commercial uses. The goal of the analysis is to utilize the under developed block and **apply** ... of the difficulties **superblocks creates**. ...

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Transport in mikrorayons: accessibility and proximity to centrally planned residential districts during the socialist era, 1957–1989

DB Hess - Journal of Planning History, 2018 - journals.sagepub.com

... , **provides** comprehensive cultural and public **services**, and ... The socialist industrialization **program** that began in the Union ... access roads penetrate the **superblocks**. Large parking ...

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Compression Methods for **Video** Streaming over an Event Notification **Service**

HT Bommen - 2005 - duo.uio.no

... The prototype **provides** fine granularity **video** streaming ... , **superblock** or for each frame. It is possible to limit a subscription to a given number of **superblocks**, so even if a reference **apply** ...

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Video CODEC **with** adaptive frame rate control for intelligent transportation system **applications**

E Vorakitolan - 2014 - shareok.org

... image processing has **established** several **applications** based on ... Unlike digital **video** entertainment **applications**, the camera ... The **superblock** (SB) feature in VP9 is a new, bigger **video** ...

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Superblock FTL: **A superblock**-based flash translation layer **with a** hybrid address translation scheme

D Jung, JUK Kang, H Jo, JS Kim, J Lee - ACM Transactions on ..., 2010 - dl.acm.org

... flash memory is that the number of **program**/erase cycles for a block is ... Although MLC NAND flash memory **provides** much higher ... Every FTL faces the same problem, and we can **apply** a ...

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STTTTTTSS

MH Lee, C Chan - iis.sinica.edu.tw

... We also motice that in a **video** conference **application**, though it ... Note that our file system architecture also **provides** a ... system defers the transfer of **superblocks** and inodes until the end ...

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M Fayyaz, E González-González, S Nogués - Sustainability, 2022 - mdpi.com

... used over ownership, and **establishing** citizen-centred urban ... One of these new urban models are the **superblocks** ... can be segmented for multiple **applications** such as parklets, drop...

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SRFTL: An adaptive **superblock**-based real-time flash translation layer for NAND flash memory

X Li, Z Shen, L Ju, Z Jia - ... 11th Int'l Conf on Embedded **Software** ..., 2014 - ieeexplore.ieee.org

... scheme, we developed a **software** simulator using C++ and ... This simulator **creates** assignedYsize **superbloc**.s and physical ... access **service**. The count of physical bloc.s mapped to a ...

☆ Save 99 Cite Cited by 4 Related articles All 3 versions

A transformation of Shanghai's Urban fabric

C Caine - 2006 - dspace.mit.edu

... by elements of **superblock** development within the kit of parts. ... This organization **creates** side lanes where the front of one ... lies in it's natural overlapping of **program**. The central lane is ...

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Urban Variation Through Evolutionary Development: Evolutionary Processes in Design and the Impact of Multi-Objective Evolutionary Algorithms Generating ...

M Makki - 2019 - search.proquest.com

... the aim of **establishing** an efficient, effective and robust modus operandi for the **application** of ... Utilising urban blocks and **superblocks** within multiple urban tissues that differ in location, ...

☆ Save 99 Cite Related articles All 3 versions »

Greening plans as (re) presentation of the city: Toward an inclusive and gender-sensitive approach to urban greenspaces

A Calderón-Argelich, I Anguelovski... - Urban Forestry & Urban ..., 2023 - Elsevier

... , inclusion, and **care** values (ISB-2016). The **Superblocks program** is a flagship urban ... i Places a l'Eixample) programs, which **creates** new pedestrianized squares in former traffic ...

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Exploiting content-based networking for fine granularity multireceiver **video** streaming

VSW Eide, F Eliassen... - ... and Networking 2005, 2005 - spiedigitallibrary.org

... Content-based networking **provides** rich routing capabilities as ... Then we present the **video** streaming **software** and ... -4, eg, each **superblock** may be encoded as a **video** object plane. The ...

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Assisting Social Justice

O Laier - 2017 - researchgate.net

... freedom and attitude towards life that **determines** people's well-... of the **Superblock**, and the roads within the **Superblock** are for ... "Ultimately, the **application** of the **Superblock** significantly ...

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20 minute neighbourhoods in a scottish context

S O'Gorman, R Dillon-Robinson - 2021 - era.ed.ac.uk

... This study **provides** an initial understanding of the current ... how other places are developing and **applying** the 20 minute ... to be applied within the **Superblock** approach. Walking, cycling, ...

☆ Save 99 Cite Cited by 26 Related articles »

Block matching in noise suppression filter for **video** coding

R Chernyak, R Mullakhmetov... - ... Multi-Conference on ..., 2019 - ieeexplore.ieee.org

... C **provides** some specific method which can be conveniently ... The filter **application** is slightly differs between **video** encoder ... (CTU) boundaries and **superblocks** dimensions cannot be ...

☆ Save 99 Cite Cited by 5 Related articles All 2 versions

A human-scaled GIS: measuring and visualizing social interaction in Barcelona's *Superilles*

P Speranza - Journal of Urbanism: International Research on . . , 2018 - Taylor & Francis

... mobile technology and parametric **software**, which was tested ... A general approach to this was **established** for each of these ... included **service** type, public versus private **services**, job type...

☆ Save 99 Cite Cited by 14 Related articles All 5 versions

Le Corbusier's principles of city planning and their **application** in virtual environments

A Tungare - 2001 - repository.library.carleton.ca

... city environment, by **establishing** a metaphorical connection ... The proposed **Superblocks** were to be graded income wise ... We must take **care** that any temptations do not kill the goal, ...

☆ Save 99 Cite Cited by 26 Related articles All 7 versions »

Benchmarking and analysis of AV1 **software** decoding on Android devices

J Grunau, JB Kempf, M Storsjo .. - **Applications** of . . ., 2022 - spiedigitallibrary.org

... after each other for the same **superblock** row, allowing memory to ... and **provides** longer battery life as well as improved **app** ... HW vendors need **video service** providers to produce more ...

☆ Save 99 Cite Related articles All 3 versions

Examination of metro stations pedestrian accessibility for all using open data kit: **A** case study of Noida City in India

SS Kapoor, TS Brar - The International Archives of the ..., 2022 - ispra-archives.copernicus.org

... satellite town Noida using smart **apps** namely ODK and Kobo ... gated communities, **superblocks** and unplanned settlements ... metro has been offering its **services** in its satellite town Noida ...

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Appstreamer: Reducing storage requirements of mobile games through predictive streaming

N Theera-Ampornpunt, S Suryavansh. . - arXiv preprint arXiv ..., 2019 - arxiv.org

... interactive mobile **applications** as opposed to all **applications** in ... Our specific algorithm, shown in Algorithm 1 **creates** such ... At the end, we have the probability of each **superblock** being ...

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Nature and City: **A** Health Symbiosis

ML Vila-Trias, JC Vilà - International Conference on Green Urbanism, 2022 - Springer

... The economic subjugation of countries and people **creates** a ... This casuistry leads to the analysis and **application** to ... The streets inside this **superblock** adopt a more human-scale ...

☆ Save 99 Cite Related articles All 2 versions

Cloud-based elastic architecture for distributed **video** encoding: Evaluating H. 265, VP9, and AV1

J Gutiérrez-Aguado, R Peña-Ortiz .. - ... Computer **Applications**, 2020 - Elsevier

... Deploying **video** coding and transcoding **services** on these ... × 64 pixels, but these **superblocks** can be divided into smaller ... **videos** to be processed and **provides** chunks of these **videos**. ...

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Mediabench: **A** tool for evaluating and synthesizing multimedia and communications systems

C Lee, M Potkonjak... - Proceedings of 30th ..., 1997 - ieeexplore.ieee.org

... Key technologies, such as trace scheduling [11, **superblock** scheduling [2], hyperblock ... **applications** area. The runtime characteristics presented in the last section **establish** that there ...

☆ Save 99 Cite Cited by 2985 Related articles All 14 versions

Complexity and compression efficiency analysis of *libaom* AV1 **video** codec

I Bender, A Borges, L Agostini, B Zatt, G Correa . . - Journal of Real-Time . . ., 2023 - Springer

... analysis related to the AV1 **superblock** partitioning process. ... excellent example of a **video** streaming **service**, having over ... After the **software** execution, GPROF **creates** a file description ...

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Digital **video** and HD: Algorithms and Interfaces

C Poynton - 2012 - books.google.com

... subject matter for which this book **provides** only a chapter. My ... I will endeavour to **repair** it and attribute the correction to you! ... In professional **applications** such as studio **video** and digital ...

☆ Save 99 Cite Cited by 1428 Related articles All 8 versions »

A scalable cost-effective **video** broadcasting system for on-demand **video services**

S Sheu, W Tavanapong, KA Hua - Multimedia Tools and **Applications**, 2006 - Springer

... The coordinator **creates** both handlers when a new **video** file is selected for broadcasting. ... **superblock** as consecutive blocks of which the combined size is equal to L1. Each **superblock** ...

☆ Save 99 Cite Cited by 14 Related articles All 11 versions

Presto—**A** system environment for mission-critical multimedia **applications**

J Huang, D Kenchammana-Hosekote, M Agrawal. . - Real-Time .. , 1997 - Springer

... , Presto **provides** a block-based **application** programming ... sequence of sectors in a PFS partition is the **super block**. The ... **provides** a set of continuous multimedia file system **services** ...

☆ Save 99 Cite Cited by 7 Related articles All 6 versions

Image analytics for urban planning: The case of the Barcelona **Superblock**

A Sollazzo - Artificial Intelligence in Urban Planning and Design, 2022 - Elsevier

... urban models such as the **Superblock**, **establishing** data-driven ... from the **application** of these instruments, **establishing** a ... the coherency of its **applications** compared to human norms and ...

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Advancing residents' use of shared spaces in Nordic **superblocks with** intelligent technologies

J Makkonen, R Latikka, L Kaukonen, M Laine... - AI & society, 2023 - Springer

... Artificial Intelligence (AI) **applications**—could support and ... the space, it **creates** a healthy foundation for the use of spaces. ... an add-on **application** to social media **service**, sending push ...

☆ Save 99 Cite Cited by 6 Related articles All 11 versions »

The Liveable **Superblock**

M Marie-Louise - 2014 - researchbank.ac.nz

... creating **superblock** development which **provides** for a ... This also **provides** a platform for interaction between people ... which rules of relative significance **apply**. This relative significance is ...

☆ Save 99 Cite Related articles »

Urvan: the future mobility of Barcelona

ALP PESTELI - 2020 - politesi.polimi.it

... , newly **established** partnerships and innovative **services** ... **superblock** either for personal or more than one person usage. During the day the residents of the **superblock** through an **app** ...

☆ Save 99 Cite Related articles All 2 versions »

Urban design guidelines as design control instrument **with a** case study of the Silver Triangle **Superblock**, Jakarta

HW Poerbo - 2001 - kluedo.ub.rptu.de

... • Place Studies **creates** theories of place that are based on the ... Between 1993 and 1998, no less than 10 **superblock** ... integrated **superblock** serves as an example for the **application** of ...

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Taking play seriously in urban design: the evolution of Barcelona's **Superblocks**

M Amati, Q Stevens, S Rueda - Space and Culture, 2024 - journals.sagepub.com

... expanding into an irregular **Superblock** that now **provides** 100,000 square meters of ... with rethinking cities and urban systems and **applying** criteria that come from academic ecology and ...

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Study protocol for the evaluation of the health effects of **Superblocks** in Barcelona: the "Salut Als Carrers"(Health in the Streets) project

..., J Carrere, E Diez, L Font-Ribera, A Gómez... - International journal of ..., 2020 - mdpi.com

... be used by residential traffic, **services**, emergency vehicles, and ... , forming part of the **superblock** **program** in the neighborhood of ... However, this project has **established** different types of ...

☆ Save 99 Cite Cited by 19 Related articles All 12 versions »

Business Aspects of the Neutral Host Model: The Immersive **Video Services** Case

..., T Rokkas, L Vignaroli, D Desirello, A Albanese... - ... Intelligence **Applications** ..., 2020 - Springer

... on Barcelona **superblock** urbanistic model are also provided. ... the NH in order to **establish** the basic functionalities that can ... **establish** key partnerships with NFV providers and **software** ...

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The Concept of Proximity in Post-pandemic Architectural Thinking: 15-Minute City and **Superblocks**

V Geropanta, R Porreca - … -19 (Forced) Innovations' Pandemic Impacts on …, 2024 - Springer

... Another temporary infrastructure concerns the use of bicycle lanes, as **established** during ... The second refers to the need for diversity, something that in Paris is promoted by **applying** ...

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Measuring the **superblock** based on **a** hierarchy matrix of geometry, configuration, network, and area: The case of Nanjing

Y Song, Y Pang - … and Planning B: Urban Analytics and City …, 2023 - journals.sagepub.com

... 's **superblocks**. This study takes the lead in analyzing the characteristics of **superblocks** by **establishing** … to analysis China's urban form, and **apply** them to the urban design practice. He ...

☆ Save 99 Cite Cited by 2 Related articles All 3 versions

Strengthening the social sustainability of super-blocks: Belgrade's emerging urban hubs

A Stupar, P Jovanović, J Ivanović Vojvodić - Sustainability, 2020 - mdpi.com

... of sustainability, this article **provides** insight into the process ... accessible to all, a **super-block** was initially conceived as a ... international settings, the **application** of both approaches could ...

☆ Save 99 Cite Cited by 10 Related articles All 12 versions »

The liveable **superblock**

ML Mann - 2014

☆ Save 99 Cite Cited by 1 Related articles

The definition of syntactic types: The generation, analysis, and sorting of universes of **superblock** designs

C Feng, J Peponis - ... and Planning B: Urban Analytics and ..., 2020 - journals.sagepub.com

... and collective shape of the most integrated streets **provides** a strong foundation for development of a ... The graph G′ = (V′, E′) to which we **apply** the longest trail search algorithm is a ...

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Brasília: **Superblocks** in perspective

F de Holanda - Journal of Design for Resilience in Architecture and ..., 2021 - drarch.org

... of the existent **superblocks** and makes a proposal that intends to: 1) **establish** clear relations ... in the existing **superblocks**, to improve internal circulation; 4) locate facilities internal to the ...

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Superblock stories, or, ten episodes in the history of public housing

S Zipp - Rethinking History, 2013 - Taylor & Francis

... that residents of the **superblock** and tower cityscape – then or ... Public housing **provides** the stage one last time, however, in ... within the larger Main Street **program**. These clustered nooks ...

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UHD **video** coding: **A** light-weight learning-based fast **super-block** approach

M Wang, W Xie, X Meng, H Zeng, ... - ... and Systems for Video ..., 2018 - ieeexplore.ieee.org

... the requirement of delivering UHD **video services**. To address ... the problem of **applying super-block** for UHD **video** coding as ... **Video** sequences used to **establish** the training dataset are ...

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Teaching-Learning-Research: Design and Environments

S Stone, L Sanderson - 2021 - e-space.mmu.ac.uk

... to embrace the nearness that digital communication **provides**. We have adapted methods of ... the edges of the **superblock**, offices are the main ingredients in terms of **program** in this new ...

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Supergrid and **superblock**: lessons in urban structure from China and Japan

X Chen - 2023 - api.taylorfrancis.com

... integrity and potential for wider **application**. As cities grew larger, they ... **provides** a distinct and noteworthy contrast. The supergrid or global roads function also as commercial and **service** ...

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... the Relationship between Public Space Social Capital Expressions and Pedestrian-Oriented Design. **A** Case Study within the **Superblock** Action Plan in Barcelona

P Morales-Flores, CR Marmolejo-Duarte - ... Study within the Superblock ... - papers.ssrn.com

... **videos** obtained from the observations of behaviour in public space were systematised using ArcGIS Pro **software** to ... taxonomy of BP in public space was **established** (see Section 4.5) to ...

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High-quality **video services** for the Access Grid

SW Han, J Kim - Proc. 14th International Conference on Artificial .. , 2004 - researchgate.net

... Each **super block** contains 27 macro blocks, which are ... of open-source **video applications** (ie, codecs). In order to support ... The proposed system **provides** the improved **video service** with ...

☆ Save 99 Cite Cited by 5 Related articles All 3 versions »

VP9 encoder and decoders for next generation online **video** platforms and **services**

M Srinivasan - SMPTE 2016 Annual Technical Conference and …, 2016 - ieeexplore.ieee.org

… extensively on VP9 codecs to improve the usability and practicality of VP9 **software**. This paper **provides** an overview of the VP9 standard, its relevance and benefits to the online …

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Implementation and evaluation of EXT3NS multimedia file system

BS Ahn, SH Sohn, CY Kim, GI Cha, YC Baek… - Proceedings of the 12th …, 2004 - dl.acm.org

… The file system and **video** streaming **service** developed in our … The SDA **software** disk striping driver **provides** at least 1 Gbps … **Superblock** and group descriptors are duplicated to every …

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A real-time file system for constrained quality of **service applications**

D Le Moal, D Molaro, J Campello - IPSJ Online Transactions, 2010 - jstage.jst.go.jp

… of **service** guarantees. The proposed file system **provides** a set of new system calls allowing **applications** … It consists of the **super block** (SB) for describing the file system format, a set of …

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Architecture and Design of the Linux Storage Stack: Gain **a** deep understanding of the Linux storage landscape and its well-coordinated layers

M Umer - 2023 - books.google.com

… This book **provides** an in-depth and conceptual overview of … Furthermore, the method by which the **superblock** structure … that **provides** a link between the end user **application** and the …

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Rate-distortion/complexity analysis of HEVC, VVC and AV1 **video** codecs

D García-Lucas, G Cebrián-Márquez … - … Tools and **Applications**, 2020 - Springer

… **video service** providers regardless of the distribution channel. … the same hybrid **video** coding scheme **established** by their … Pictures are partitioned into **superblocks** with a maximum …

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Mobidesk: mobile virtual desktop computing

RA Baratto, S Potter, G Su, J Nieh - Proceedings of the 10th annual …, 2004 - dl.acm.org

… of sessions for running **application services** which do not … entry of the socket, its **superblock** information, and a hash key… , our prototype **provides** a small client **application** that can be …

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An overview of core coding tools in the AV1 **video** codec

Y Chen, D Murherjee, J Han, A Grange… - 2018 picture coding …, 2018 - ieeexplore.ieee.org

… This paper **provides** a brief technical overview of key coding … INTRODUCTION V**ideo** **applications** have become ubiquitous … change levels from **superblock** to **superblock**. Other filtering …

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High Performant AV1 for VOD **Applications**

Y Wang, CY Tsai, J Han, Y Xu - 2022 IEEE International …, 2022 - ieeexplore.ieee.org

… , and this is especially critical for **video service** providers, such as … A **superblock** can be further partitioned into smaller coding … is implemented, which **provides** further speedups while the …

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Application of homeostatic principles within evolutionary design processes: adaptive urban tissues

M Showkatbakhsh, M Makki - Journal of Computational Design ..., 2020 - academic.oup.com

... of a city **creates** a unique opportunity to test the **application** of biological homeostatic ... of the **superblock** with the aim of maintaining homeostasis of β. However, the urban **applications** of ...

☆ Save 99 Cite Cited by 14 Related articles All 7 versions

DigiCipher-all digital, channel compatible, HDTV broadcast system

W Paik - IEEE transactions on broadcasting, 1990 - ieeexplore.ieee.org

... digital **video**, CD-quality digital **audio**, data and text **services** ... supply **program** related information such as **program** name, ... method **determines** a good match between **superblock** ...

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Modeling the security policy of the information system for critical use

OV Bisikalo, VV Kovtun... - Радіоелектроніка ... , 2019 - cyberleninka.ru

... of the intersection of **superblocks** will be a **superblock**, which ... SP of ISCU, which **establishes** the attributes of permissibility ... functions in the form of **software services**, information integrity ...

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Merging green and active transportation infrastructure towards an equitable accessibility to green areas: Barcelona green axes

F Magrinya, J Mercadé-Aloy, B Ruiz-Apilánez - Land, 2023 - mdpi.com

... of the origins of the **superblocks** plan, the rationale behind the ... as a dynamic tool that **provides** a basis for dialogue and ... assessments of theoretical **application** scenarios are being made ...

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Fine-grained region adaptive loop filter for **super-block video** coding

M Wang, J Lin, J Zhang, W Xie - IEEE Access, 2019 - ieeexplore.ieee.org

... format is expected as one of the most attractive **services** in ... UHD **video** format **provides** high-resolution, high framerate, ... to meet the diverse **video applications**, including the all-intra (AI) ...

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Shaping urban environments to improve respiratory health: recommendations for research, planning, and policy

M Nieuwenhuijsen, A de Nazelle... - The Lancet ..., 2024 - thelancet.com

... of different challenges might also **apply**. We also discuss the ... (B) Illustration of a **superblock** in Barcelona in which various ... Quality Directive in the EU **provides** an opportunity to catch ...

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Barcelona en Comú. **A** new municipalist approach for **a** more cohesive society and an open public space

JA Hermstadt - 2022 - repositum.tuwien.at

... In combination with the adaption of the **superblock** initiative into a holistic concept to tackle ... a soil that **provides** all the right nutrients. In case of the reimagination of the **superblock** idea ...

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New urbanism and the city: Potential **applications** and implications for distressed inner-city neighborhoods

CC Bohl - 2000 - Taylor & Francis

... The neighborhood center **provides** a focal point for shopping, dining, **services**, and transit. In ... **Superblocks** are broken up into smaller blocks with the reintroduction of a street grid, and ...

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Mapping user experiences around transit stops using computer vision technology: Action priorities from Cairo

S Wael, A Elshater, S Afifi - Sustainability, 2022 - mdpi.com

... **provides** novelty in providing a framework for using computer vision-based **applications** to draw ... on the station areas' planning and design process and their **service** level. This research ...

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Industrial **applications** of ultrahigh definition **video** coding **with** an optimized supersample adaptive offset framework

M Wang, W Xie, J Zhang, J Qin - IEEE Transactions on ..., 2020 - ieeexplore.ieee.org

... (QoE) of UHD **video services**, many international standard ... of **superblock** paradigm, whose size is up to 256 × 256. ... performance of SSAO which **provides** the average BD-rate ...

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Two childhoods, two neighborhoods, and one city: utopias and dystopias in Brasilia

RN Marques, F Müller, MM Kanegae .. - Children's ..., 2021 - Taylor & Francis

... neighborhoods of Brasilia: the model **superblock** and the Vila do Boa. ... One precaution was the use of a mediator to **establish** ... ever signed in his life was his **application** to join the library. ...

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Urban network analysis training in Rhinoceros3D: Barcelona, 11-13 July 2022

A Sevtsuk, M Berra Sandin, E Villavieja Martinez. . - 2023 - upcommons.upc.edu

... : between hospitality **services** and **Superblocks** (BerraSandin, ... unique in this aspect, **establishing** a direct analytic bridge ... popular and accessible **software** platform for designers — we ...

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Looking into the Supergrid and **Superblock** Structure in Chinese Cities: Taking Xi'an and Nanjing as Examples

X Chen - Chinese Urban Planning and Construction: From ... , 2021 - Springer

... This chapter **provides** a comprehensive exploration of the development of the **Superblock** ... structure indicates a long-lasting tradition of the **application** of the structure in Chinese cities. ...

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Algorithmic definitions of street network centrality sub-shapes: The case of **superblocks**

C Feng, J Peponis - ... and Planning B: Urban Analytics and ..., 2022 - journals.sagepub.com

... **applying** one of the eight syntactic operators shown in Figure 3 on random parts of the grid. ... On the contrary, the operator of linking edge to edge only **creates** local infill streets and never ...

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A scalable iot **video** data analytics for smart cities

MP Doan, HH Huynh, HX Huynh - ... Systems and **Applications**, 2019 - publications.eai.eu

... **services** and **applications**. A cloud/edge-based automated ... Next [27], we treat **superblock** (any adjacent 2×2 blocks) and ... This section **provides** the details of our experimental setup used ...

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The design of social and cultural orientated urban tissues through evolutionary processes

J Choi, PCT Nguyen, M Makki - International Journal of ..., 2021 - journals.sagepub.com

... **establish** greater relationships throughout the **superblock**; this route is offset at 5 m, the widest alleyway within the **superblock**... By **applying** multiple variational exchanges to Individual 31, ...

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Open Space--Open **Program**: Towards the end of the "curated city"

A Kyriazis - academia.edu

... plans, to post-modern **superblock** buildings and highway strips, to the ... -based arrangement of **services** and public spaces to ... Informality **provides** voice to the voiceless. It enables ethnic ...

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Warehouse-scale **video** acceleration: co-design and deployment in the wild

..., A Ramirez, VM Rautio, Y Ripley, A Salek ... - Proceedings of the 26th ..., 2021 - dl.acm.org

... 2 **provides** background on why data center scale **video** ... **video** sharing **service** and a consumer **video application** like ... roblock (H.264) or a 64x64 **superblock**3 (VP9) – the largest square ...

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Artificial intelligence-aided design: Smart design for sustainable city development

SJ Quan, J Park, A Economou ... - ... and Planning B: Urban ..., 2019 - journals.sagepub.com

... Third, it **provides** a framework for system optimization and ... This case study simplifies the densification of **superblocks** as a ... The fourth was to **apply** distributed computing to simulate ...

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AV1: Implementation, performance, and **application**

I Trow - SMPTE Motion Imaging Journal, 2020 - ieeexplore.ieee.org

... , OTT, and catch-up **services** need to be provided for new infrastructure ... One such feature is the 128 × 128 **Superblock** that is ... The use of reference models **provides** an indication of the ...

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Mòdulochava: **a** multifunctional architectural module as **a** catalyst of social exchange within the public space in the city of Barcelona

AJ Pineda - 2021 - upcommons upc edu

... green squares that the "**Superblocks**" **program** will create in the ... with a plan that re-**establishes** the urban order by grouping ... urban design at the **service** of the transformation process has ...

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Pedestrian agent-based simulation for urban mobility planning

N Kirova, A Markopoulou - 2021 - researchgate net

...) where the first **Superblock** was **established** in 2016. ... The main contribution of this paper is the **application** of the pipeline ... creating more walkable areas and promoting **services**. The ...

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Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-22)
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	Filing Date	2024-02-05
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18432148
	Filing Date	2024-02-05
	First Named Inventor	Sivakumar CHATURVEDI
	Art Unit	
	Examiner Name	
	Attorney Docket Number	DAMA60-35891

	1	RYAN PAUL: "SkypeKit SDK could bring gift of gab to more gadgets", Ars Technica, 23 June 2010, 5 pages, https://arstechnica.com/gadgets/2010/06/skypekit-sdk-could-bring-gift-of-gab-to-more-gadgets/.	☐
	2	SALMAN A. BASET, et al, "An Analysis Of The Skype Peer-To-Peer Internet Telephony Protocol", Department of Computer Science, Columbia University, New York, NY, USA, September 15, 2004.	☐
	3	Seta, N.; Miyajima, H.; Zhang, L;; Fujii, T., "All-SIP Mobility: Session Continuity on Handover in Heterogeneous Access Environment," Vehicular Technology Conference, 2007. VTC 2007-Spring. IEEE 65th, 22-25 April 2007, pages: 1121-1126.	☐
	4	SINGH et al., "Peer-to Peer Internet Telephony Using SIP", Department of Computer Science, Columbia University, October 31, 2004, XP-002336408.	☐
	5	SINHA, S. and OGLIESKI, A., A TCP Tutorial, November 1998 (Date posted on Internet: 19 April 2001) [Retrieved from the Internet]	☐
	6	Steve Taylor and Larry Hettick: "More on Skype-to-PSTN calling; Crunching the numbers on Skype's PC-to-PSTN option" Network World; 06 October 2004; 3 pages.	☐
	7	TeamSpeak SDKTeamSpeak 3 SDK, (2012), 2 pages, https://web.archive.org/web/20120508173405/http://www.teamspeak.com/?page=teamspeak3sdk&newlang=en.	☐
	8	Twilio Video Overview, (2023), https://www.twilio.com/docs/video/overview.	☐
	9	Twilio: SDKS; 12 August 2016, 2 pages, https://web.archive.org/web/20160812043450/https:/www.twilio.com/docs/libraries.	☐
	10	University of Helsinki; Kangasharju: "Peer-to-Peer Networks, Chapter 2: Current Peer-to-Peer Systems"; 62 pages; https://www.cs.helsinki.fi/u/jakangas/Teaching/PrintOuts/08s-P2P-01-Introduction.pdf.	☐
	11	Voiptalk Internet Telephony Service: "SMS Callback"; (2003-2023); 1 page; https://www.voiptalk.org/products/sms-callback.	☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18432148
	Filing Date	2024-02-05
	First Named Inventor	Sivakumar CHATURVEDI
	Art Unit	
	Examiner Name	
	Attorney Docket Number	DAMA60-35891

	12	Walbourn, Chuck. "A Brief History of Windows Sdks." Games for Windows and the DirectX SDK Blog, 3 Oct. 2013, walbourn.github.io/a-brief-history-of-windows-sdks/. Accessed 28 Nov. 2023.	☐
	13	Youtube API 2009; 19 February 2009, https://www.youtube.com/watch?v=ylLzyHk54Z0.	☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18432148
	Filing Date	2024-02-05
	First Named Inventor	Sivakumar CHATURVEDI
	Art Unit	
	Examiner Name	
	Attorney Docket Number	DAMA60-35891

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☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Keith D. Harden, Reg. #74472/	Date (YYYY-MM-DD)	2024-02-05
Name/Print	Keith D. Harden	Registration Number	74472

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Housing the "Front Office to the World" Urban Planning for the **Service** Economy in Battery Park City, New York

A Shkuda - Journal of Planning History, 2014 - journals.sagepub.com

... Although the project's plans evolved from a **superblock** development resembling a space ... long and winding political road it took to completion, **provides** a way to investigate some of the ...

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Coworking space and cluster spatial relations in the context of Jakarta City spatial structure

W Hulliana, E Ellisa - IOP Conference Series: Earth and ..., 2019 - iopscience.iop.org

... However, social segregation is still occurred in both **superblocks** and Podomoro City. The fact that **superblock** originally **established** for middle to upper class, has made an impression ...

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Digital Forensic Readiness in Smart, Circular Cities.

A Damianou - 2022 - eprints.bournemouth.ac.uk

... for the quality of **services** that a city **provides** and the quality of life ... **application** technical security controls and **provides** developers with a list of requirements for secure web **applications** ...

☆ Save 99 Cite Cited by 1 Related articles All 2 versions »

Towards More Human Cities in Egypt: Human-City Urban Planning Model HCUPM

G Eldeeb, M Shehata, H Hafez - Civ. Eng. Archit, 2022 - scholar.cu.edu.eg

... By **applying** the Human City approach, we are going to work to ... density **creates** security and creativity, as it **creates** more ... Within 400 meters of the **superblock**, residents will find ...

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Innovative technologies in urban mapping: Built space and mental space

A Contin, P Paolini, R Salerno - 2014 - books.google.com

... grow in size with a view to **establishing** a clear synergy between the ... of the city fabric as a system that **determines** a state: ... park we devised a mobile **application** loaded on 'Layar' through ...

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The environment through the regulation of emissions resulting from the automobile journeys in Peru

JCS Saavedra - Social Innovation in Latin America, 2021 - api.taylorfrancis.com

... In this context, it is simplistic but necessary to **establish** that ... The **superblocks** development proposed eight **superblock** ... also by **Apps** (Uber pool) and informal "collective" **services** we call ...

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A proof of concept investigating the support of densification through the planning and implementation of road infrastructure in the South African context

K Govender - 2020 - scholar.sun.ac.za

... (for example Barcelona **Superblocks**) enshrines the concept ... , using the SATURN traffic modelling **software**, is discussed in ... review is to understand and **establish** the research already ...

☆ Save 99 Cite Related articles All 2 versions »

Fine granularity adaptive multireceiver **video** streaming

VSW Eide, F Eliassen, JA Michaelsen ... - ... and Networking 2007, 2007 - spedigitallibrary.org

... For subscriptions involving several **superblocks** with different ... some **application** types, such as parallel processing of **video** ... **video** streaming over content-based networking **provides** a ...

☆ Save 99 Cite Cited by 2 Related articles All 8 versions

The phase of experimentation in public spaces: the cases of Milan, Barcelona and Rio de Janeiro

F Nogueira, F Moura, AM de Sá - Transportation Research Procedia, 2023 - Elsevier

... The experimentation also **provides** a ... is also **applying** experimentation in public space since the year 2013 with the implementation of the Supermanzanas (also known as **Superblocks**) ...

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The Architecture Machine Group's *Aspen Movie Map* Mediating the Urban Crisis in the 1970s

A Anable - Television & New Media, 2012 - journals.sagepub.com

... **Establishing** a paranoid tone, the **program** begins with a long shot of a man and woman ... of the city to the cold right angles and **superblock** housing of brutal modernism and the social ...

☆ Save 99 Cite Cited by 11 Related articles

LVFS: a lightweight **video** storage file system for IP camera-based surveillance **applications**

C Wang, K Zhou, Z Niu, R Wei, H Li - . . 5-7, 2018, Proceedings, Part II 24, 2018 - Springer

... (3) It implements specific interfaces and **provides** a **software** ... **Superblock**: **Superblock** has the description of the devices ... for **service** composition in cloud-based **video** surveillance ...

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The generic framing procedure (GFP): An overview

E Hernandez-Valencia, M Scholten .. - IEEE Communications .., 2002 - ieeexplore.ieee.org

... adaptation protocol for broadband transport **applications**. It ... In the case of ATM, it **provides** both transport and **service** layer ... [536,520] **superblocks**, where each **superblock** is constructed ...

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CROWN File System and Its **Application** for VOD **Service**

권오영 , 전성근 , 손영성 , 김태근 , 백창숙 - 한국통신학회 학술대회논문집, 1998 - dbpia.co.kr

... a **Video**-On-Demand server. This server is a highly scalable multimedia server and **provides** ... of file, the beginning of RawDisk partition contains **superblock** and a set of inode structures. ...

☆ Save 99 Cite Related articles

An overview of coding tools in AV1: the first **video** codec from the alliance for open media

Y Chen, D Mukherjee, J Han, A Grange... - ... Transactions on Signal .., 2020 - cambridge.org

... is realized, this paper **provides** a technical overview of key ... conversational **video**, along with emerging new **applications** ... between current **superblock** and the most recent **superblock** that ...

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Linux security modules: General security support for the linux kernel

C Wright, C Cowan, S Smalley, J Morris .. - 11th USENIX Security .., 2002 - usenix.org

... when a new **program** is executed. Consequently, LSM **provides** a set of **program**loading hooks ... inode and **super block** structures correspond to the actual objects and are independent of ...

☆ Save 99 Cite Cited by 778 Related articles All 24 versions »

An overview of new **video** coding tools under consideration for VP10: the successor to VP9

. ., H Su, J Bankoski, A Converse. . - Applications of .. , 2015 - spiedigitallibrary.org

... This paper **provides** a technical overview of these coding ... that have lately increased in popularity immensely in **services** such ... of a **superblock** is restricted to be of size no larger than the ...

☆ Save 99 Cite Cited by 35 Related articles All 3 versions

Speeding up VP9 intra encoder **with** hierarchical deep learning-based partition prediction

S Paul, A Norkin, AC Bovik - IEEE Transactions on Image .., 2020 - ieeexplore.ieee.org

... We created a large database of VP9 **superblocks** and the ... The experimental results **establish** that our approach speeds ... HEVC encoder from the HM 16.5 **software** [45] using the main ...

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MPEG digital **audio** coding

P Noll - IEEE signal processing magazine, 1997 - ieeexplore.ieee.org

... some of the typical **applications** for MPEG **audio** compression. ... In Layer II, in each sub band a 36-sample **superblock** is formed ... Because ISDN is a bidirec tional **service**, it also **provides** ...

☆ Save 99 Cite Cited by 340 Related articles All 5 versions

Land Power

C Shepard - Places Journal, 2022 - placesjournal.org

... Street dead-ends into a **superblock**. On the other side of ... , construction of the resulting **superblock** left the erstwhile hospital ... They **established** a radical drug-rehab **program** in the yellow ...

☆ Save 99 Cite Cited by 4 Related articles All 2 versions »

CollaChain: A BFT collaborative middleware for decentralized **applications**

D Tennakoon, Y Hua, V Gramoli - arXiv preprint arXiv:2203.12323, 2022 - arxiv.org

... eagerly to mitigate denial-of-**service** (DoS) attacks, we limit ... their proposal into the same **superblock** decision, as opposed ... is fast, it **creates** and delivers **superblocks** at high frequency ...

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/432,148	02/05/2024	Sivakumar CHATURVEDI	DAMA60-35891

CONFIRMATION NO. 5745

25883
MUNCK WILSON MANDALA L.L.P
P.O. Drawer 800889
DALLAS, TX 75380

PUBLICATION NOTICE

OC10000073259332

Date Mailed: 05/31/2024

Title:SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

Publication No.US-2024-0179526-A1
Publication Date:05/30/2024

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18/432,148	02/05/2024	CHATURVEDI et al.	DAMA60-35891

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
18/432,148	02/05/2024		664	DAMA60-35891	1	1

CONFIRMATION NO. 5745

25883
MUNCK WILSON MANDALA L.L.P
P.O. Drawer 800889
DALLAS, TX 75380

FILING RECEIPT

OC00000006848137

Date Mailed: 02/21/2024

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Inventor(s)

Sivakumar CHATURVEDI, Allen, TX;
Satish GUNDABATHULA, Irving, TX;
Rashmi HIREMATH, Allen;

Applicant(s)

Damaka, Inc., Richardson, TX;

Power of Attorney: The patent practitioners associated with Customer Number 25883

Domestic Priority data as claimed by applicant

This application is a CON of 18/099,175 01/19/2023
which is a CON of 17/109,488 12/02/2020 PAT 11,576,046
which is a CON of 16/543,689 08/19/2019 PAT 10,863,357
which is a CON of 15/431,046 02/13/2017 PAT 10,387,220
which is a CON of 15/297,328 10/19/2016 PAT 9,578,092
which is a CON of 15/049,891 02/22/2016 PAT 9,491,233
which is a CON of 14/690,619 04/20/2015 PAT 9,270,744
which is a CON of 14/024,027 09/11/2013 PAT 9,027,032
which claims benefit of 61/846,958 07/16/2013

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Projected Publication Date: 05/30/2024
Non-Publication Request: No
Early Publication Request: No
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Title

SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

Preliminary Class

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 18/432,148

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	64		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	280		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	320		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	1 minus 20 =	* 0	x =	0	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1 minus 3 =	*	x =	0			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	664		TOTAL	

APPLICATION AS AMENDED - PART II

AMENDMENT A

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
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))									
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

AMENDMENT B

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)		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))									
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* 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".

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)		
	Application Number	18432148
	Filing Date	2024-02-05
	First Named Inventor	Sivakumar CHATURVEDI
	Art Unit	
	Examiner Name	
	Attorney Docket Number	DAMA60-35891

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	First Named Inventor	Sivakumar CHATURVEDI
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	Examiner Name	
	Attorney Docket Number	DAMA60-35891

	1	RYAN PAUL: "SkypeKit SDK could bring gift of gab to more gadgets", Ars Technica, 23 June 2010, 5 pages, https://arstechnica.com/gadgets/2010/06/skypekit-sdk-could-bring-gift-of-gab-to-more-gadgets/.	☐
	2	SALMAN A. BASET, et al, "An Analysis Of The Skype Peer-To-Peer Internet Telephony Protocol", Department of Computer Science, Columbia University, New York, NY, USA, September 15, 2004.	☐
	3	Seta, N.; Miyajima, H.; Zhang, L;; Fujii, T., "All-SIP Mobility: Session Continuity on Handover in Heterogeneous Access Environment," Vehicular Technology Conference, 2007. VTC 2007-Spring. IEEE 65th, 22-25 April 2007, pages: 1121-1126.	☐
	4	SINGH et al., "Peer-to Peer Internet Telephony Using SIP", Department of Computer Science, Columbia University, October 31, 2004, XP-002336408.	☐
	5	SINHA, S. and OGLIESKI, A., A TCP Tutorial, November 1998 (Date posted on Internet: 19 April 2001) [Retrieved from the Internet]	☐
	6	Steve Taylor and Larry Hettick: "More on Skype-to-PSTN calling; Crunching the numbers on Skype's PC-to-PSTN option" Network World; 06 October 2004; 3 pages.	☐
	7	TeamSpeak SDKTeamSpeak 3 SDK, (2012), 2 pages, https://web.archive.org/web/20120508173405/http://www.teamspeak.com/?page=teamspeak3sdk&newlang=en.	☐
	8	Twilio Video Overview, (2023), https://www.twilio.com/docs/video/overview.	☐
	9	Twilio: SDKS; 12 August 2016, 2 pages, https://web.archive.org/web/20160812043450/https:/www.twilio.com/docs/libraries.	☐
	10	University of Helsinki; Kangasharju: "Peer-to-Peer Networks, Chapter 2: Current Peer-to-Peer Systems"; 62 pages; https://www.cs.helsinki.fi/u/jakangas/Teaching/PrintOuts/08s-P2P-01-Introduction.pdf.	☐
	11	Voiptalk Internet Telephony Service: "SMS Callback"; (2003-2023); 1 page; https://www.voiptalk.org/products/sms-callback.	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18432148
	Filing Date	2024-02-05
	First Named Inventor	Sivakumar CHATURVEDI
	Art Unit	
	Examiner Name	
	Attorney Docket Number	DAMA60-35891

	12	Walbourn, Chuck. "A Brief History of Windows Sdks." Games for Windows and the DirectX SDK Blog, 3 Oct. 2013, walbourn.github.io/a-brief-history-of-windows-sdks/. Accessed 28 Nov. 2023.	☐
	13	Youtube API 2009; 19 February 2009, https://www.youtube.com/watch?v=ylLzyHk54Z0.	☐

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18432148
	Filing Date	2024-02-05
	First Named Inventor	Sivakumar CHATURVEDI
	Art Unit	
	Examiner Name	
	Attorney Docket Number	DAMA60-35891

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

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☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Keith D. Harden, Reg. #74472/	Date (YYYY-MM-DD)	2024-02-05
Name/Print	Keith D. Harden	Registration Number	74472

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Application Number	18/432,148
Filing Date	February 5, 2024
First Named Inventor	CHATURVEDI, Sivakumar
Title	SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER
Art Unit	
Examiner Name	
Attorney Docket Number	DAMA60-35891

SIGNATURE of Applicant or Patent Practitioner

Signature	/Keith D. Harden, Reg. #74472/	Date (Optional)	
Name	KEITH D. HARDEN	Registration Number	74,472
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

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Name	Ilya Slivkin		
Title	CEO		

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	Application Number	18432148
	Filing Date	2024-02-05
	First Named Inventor	Sivakumar CHATURVEDI
	Art Unit	
	Examiner Name	
	Attorney Docket Number	DAMA60-35891

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	1	5818447	A	1998-10-06	Wolf et al.	
	2	6031818	A	2000-02-29	Lo et al.	
	3	6128283	A	2000-10-03	Sabaa et al.	
	4	6148336	A	2000-11-14	Thomas et al.	
	5	6161082	A	2000-12-12	Goldberg et al.	
	6	6298129	B1	2001-10-02	Culver et al.	
	7	6311150	B1	2001-10-30	Ramaswamy et al.	
	8	6389016	B1	2002-05-14	Sabaa et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18432148
	Filing Date	2024-02-05
	First Named Inventor	Sivakumar CHATURVEDI
	Art Unit	
	Examiner Name	
	Attorney Docket Number	DAMA60-35891

	9	6438376	B1	2002-08-20	Elliott et al.	
	10	6754181	B1	2004-06-22	Elliott et al.	
	11	6766373	B1	2004-07-20	Beadle et al.	
	12	6898413	B2	2005-05-24	Yip et al.	
	13	6999932	B1	2006-02-14	Zhou	
	14	7006508	B2	2006-02-28	Bondy et al.	
	15	7010109	B2	2006-03-07	Gritzer et al.	
	16	7092385	B2	2006-08-15	Gallant et al.	
	17	7123710	B2	2006-10-17	Ravishankar	
	18	7185114	B1	2007-02-27	Hariharasubrahmanian	
	19	7272377	B2	2007-09-18	Cox et al.	

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	20	7302496	B1	2007-11-27	Metzger	
	21	7304985	B2	2007-12-04	Sojka et al.	
	22	7345999	B2	2008-03-18	Su et al.	
	23	7346044	B1	2008-03-18	Chou et al.	
	24	7353255	B2	2008-04-01	Acharya et al.	
	25	7412374	B1	2008-08-12	Seiler et al.	
	26	7487248	B2	2009-02-03	Moran et al.	
	27	7542472	B1	2009-06-02	Gerendai et al.	
	28	7564843	B2	2009-07-21	Manjunatha et al.	
	29	7570743	B2	2009-08-04	Barclay et al.	
	30	7574523	B2	2009-08-11	Traversat et al.	

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	31	7590758	B2	2009-09-15	Takeda et al.	
	32	7623476	B2	2009-11-24	Ravikumar et al.	
	33	7623516	B2	2009-11-24	Chaturvedi et al.	
	34	7656870	B2	2010-02-02	Ravikumar et al.	
	35	7664495	B1	2010-02-16	Bonner et al.	
	36	7769881	B2	2010-08-03	Matsubara et al.	
	37	7774495	B2	2010-08-10	Pabla et al.	
	38	7778187	B2	2010-08-17	Chaturvedi et al.	
	39	7782866	B1	2010-08-24	Walsh et al.	
	40	7917584	B2	2011-03-29	Arthursson	
	41	8009586	B2	2011-08-30	Chaturvedi et al.	

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	Attorney Docket Number	DAMA60-35891

	42	8065418	B1	2011-11-22	Abuan et al.	

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	1	20090254753	A1	2009-10-08	Atley et al.	
	2	20120064976	A1	2012-03-15	Gault et al.	

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	1	"Real-time Communications Client Application Programming Interface" Microsoft; 02 February 2007, 2 pages, https://learn.microsoft.com/en-us/previous-versions/windows/desktop/ms775892(v=vs.85).	☐
	2	Adrian Georgescu, Dan Pascu, Denis Bilenko, Luci Stanescu, Ruud Klaver, Saúl Ibarra: "SIP SIMPLE Client SDK"; 06 December 2012, 1 page, https://web.archive.org/web/20121206233135/https:/sipsimpleclient.org/.	☐

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	3	API Libraries and SDKs, 18 June 2014, 3 pages, http://www.twilio.com/docs/libraries.	☐
	4	Baset, Salman A., and Henning Schulzrinne. "An analysis of the skype peer-to-peer internet telephony protocol."; Department of Computer Science Columbia University; September 2004; arXiv preprint cs/0412017.	☐
	5	B-Labs Software: "Bopup IM Client Software Development Kit (SDK)"; (2000-2014); 8 pages; https://www.bopup.com/onlinehelp/sdk/getting_started/overview.html.	☐
	6	B-Labs Software; Bopup IM Client SDK; "Build your Own, Integrate and Extend Existing Apps with Instant Messaging and Chat Functionality"; 4pages; 2000-2013.	☐
	7	BRENT BUCHANAN: P2P SMS IS HOT – BUT NOT ALL PLATFORMS WORK THE SAME; 6 pages, https://www.cygn.al/p2p-sms-is-hot-but-not-all-platforms-work-the-same/.	☐
	8	Bret Taylor: "The world is your JavaScript-enabled oyster"; 29 June 2005, 2 pages, https://googleblog.blogspot.com/2005/06/world-is-your-javascript-enabled_29.html.	☐
	9	Build your app on the Dropbox platform, 02 June 2016, 2pages, https://web.archive.org/web/20160602034809/https://www.dropbox.com/developers.	☐
	10	Bulk, Frank. "Final project: skype."; cs.columbia.edu; 5 May 2004; 23 pages.	☐
	11	Cerulean Studios: "Trillian (software)"; Wikipedia; 01 July 2000; 11 pages; https://en.wikipedia.org/w/index.php?title=Trillian_(software)&oldid=1157096199.	☐
	12	COMMUNICATIONS APIS IN-APP VOICE In-App Voice; https://www.vonage.com/communications-apis/in-app-voice/.	☐
	13	Craig Buckler: "Dropbox Launches a New Development API"; 24 October 2011, 5 pages, https://www.sitepoint.com/dropbox-launches-a-new-development-api/.	☐

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	14	Cristiano Severini: "instagram-ios-sdk", (2012), 2 pages, https://cocoapods.org/pods/instagram-ios-sdk.	☐
	15	EP: Office Action of EP 14825971.6 (related application); 14 October 2019; 5 pages.	☐
	16	Facebook Developers, 29 August 2010, 1 page, https://developers.facebook.com/docs/.	☐
	17	Google Maps SDK for iOS. December 13, 2012, 1 page, https://web.archive.org/web/20130116215815/https:/developers.google.com/maps/documentation/ios/.	☐
	18	Hao Wang, Skype VoIP service-architecture and comparison, In: INFOTECH Seminar Advanced Communication Services (ASC), 2005, pp. 4, 7, 8.	☐
	19	Harry Fairhead: "Recording Skype"; 12 July 2009; 3 pages; https://www.i-programmer.info/projects/38-windows/203-recording-skype.html.	☐
	20	International Search Report and Written Opinion of PCT/US2015/43633, 2015 October 26, 21 pgs.	☐
	21	International Search Report and Written Opinion of the International Searching Authority from PCT/US2006/040312, dated March 2, 2007.	☐
	22	International Search Report and Written Opinion of the International Searching Authority from PCT/US2006/047841, dated September 12, 2008.	☐
	23	International Search Report and Written Opinion of the International Searching Authority from PCT/US2007/002424, dated August 14, 2007.	☐
	24	International Search Report and Written Opinion of the International Searching Authority from PCT/US2007/068820, dated June 11, 2008.	☐

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	25	International Search Report and Written Opinion of the International Searching Authority from PCT/US2007/068821, dated June 14, 2008.	☐
	26	International Search Report and Written Opinion of the International Searching Authority from PCT/US2007068823, dated June 1, 2008.	☐
	27	International Search Report and Written Opinion of the International Searching Authority from PCT/US2008/075141, dated March 5, 2009.	☐
	28	International Search Report and Written Opinion of the International Searching Authority from PCT/US2008/078142, dated March 27, 2009.	☐
	29	International Search Report and Written Opinion of the International Searching Authority from PCT/US2008/084950, dated April 27, 2009.	☐
	30	International Search Report and Written Opinion of the International Searching Authority from PCT/US2014/039777, dated September 30, 2014.	☐
	31	International Search Report and Written Opinion of the International Searching Authority from PCT/US2014/39782, dated October 17, 2014.	☐
	32	ISAACS, Ellen et al., "Hubbub: A sound-enhanced mobile instant messenger that supports awareness and opportunistic interactions," Proceedings of the SIGCHI Conference On Human Factors in Computing Systems; Vol. 4, Issue No. 1; Minneapolis, Minnesota; 20-25 April 2002; pgs. 179-186.	☐
	33	Jaroslav Martan: "UC API (Cius, Jabber SDK)"; (2010), 38 pages, https://www.cisco.com/c/dam/global/cs_cz/assets/expo2012/pdf/T_COL5_UC_API_JaroslavMartan.pdf.	☐
	34	JEFF TYSON, "How Instant Messaging Works", www.verizon.com/learningcenter, March 9, 2005.	☐
	35	Lawson, J., Cooke, E., Wolthuis, J.: "Twilio Quickstart Tutorials"; (2013); 2 pages; https://www.twilio.com/docs/quickstart.	☐

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	36	Lawson, J., Cooke, E., Wolthuis, J.: "Twilio"; Wikipedia; (2008), 7 pages, https://en.wikipedia.org/wiki/Twilio.	☐
	37	Liang, Jian, Rakesh Kumar, and Keith W. Ross. "Understanding kazaa." (2004); 7 pages.	☐
	38	M. Dowler: "Skype - Voice over IP / VoIP Communication"; 07 September 2005; 3 pages; https://www.pcstats.com/articles/1563/index.html.	☐
	39	Mickey Kataria; "Google Docs Viewer on Mobile Browsers"; 28 June 2010; 3 pages; https://drive.googleblog.com/2010/06/google-docs-viewer-on-mobile-browsers.html.	☐
	40	Nick Denker: "ABTO Software's VoIP SIP SDK solutions"; April 2012, 4 pages, https://web.archive.org/web/20120422140622/https:/voipsipsdk.com/.	☐
	41	PCT: International Preliminary Report on Patentability of PCT/US14/39782; 19 April 2016; 9 pgs.	☐
	42	PCT: International Preliminary Report on Patentability of PCT/US2008/084950; 01 June 2010; 5 pgs.	☐
	43	PCT: International Preliminary Report on Patentability of PCT/US2014/039777; 28 January 2016; 8 pgs.	☐
	44	PCT: International Search Report and Written Opinion of PCT/US2015/43630 (related application), 2015 October 30, 20 pgs.	☐
	45	Peer to Peer Texting FAQ – Frequently Asked Questions & Answers by Peerly!, https://peerly.com/peer-to-peer-texting-faq/.	☐
	46	Pejman Khadivi, Terence D. Todd and Dongmei Zhao, "Handoff trigger nodes for hybrid IEEE 802.11 WLAN/cellular networks," Proc. Of IEEE International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks, pp. 164-170, 18 October 2004.	☐

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	47	PowerGramo; Skype Recording; 2014-2015; 2pages; Freebird Team.	☐
	48	Qian Zhang; Chuanxiong Guo; Zihua Guo; Wenwu Zhu, "Efficient mobility management for vertical handoff between WWAN and WLAN," Communications Magazine, IEEE, vol. 41. issue 11, November 2003, pages: 102-108.	☐
	49	RORY BLAND, et al,"P2P Routing" 03/2002.	☐
	50	ROSENBERG, "STUN- Simple Traversal of UDP Through NAT", September 2002, XP015005058.	☐

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	First Named Inventor	Sivakumar CHATURVEDI
	Art Unit	
	Examiner Name	
	Attorney Docket Number	DAMA60-35891

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Keith D. Harden, Reg. #74472/	Date (YYYY-MM-DD)	2024-02-05
Name/Print	Keith D. Harden	Registration Number	74472

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/432,148	**02/05/2024 09:51:52 AM Z ET**	**DAMA60-35891**

Title of Invention

SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5745	FILED BY	Keith Harden
PATENT CENTER #	64202844	FILING DATE	-
CUSTOMER #	25883	FIRST NAMED INVENTOR	Sivakumar CHATURVEDI
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 4

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	CHATURVEDI, Sivakumar
Serial No.:	18/432,148
Confirmation No.:	5745
Filed:	February 5, 2024
For:	SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

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INFORMATION DISCLOSURE STATEMENT

In accordance with the requirements of 37 C.F.R. §§ 1.56, 1.97, and 1.98, attached please find a Form PTO SB/08 listing information for consideration by the Office in connection with its examination of the above-captioned patent application.

It is brought to Examiner's attention that certain references listed on the attached Form PTO SB/08 were previously submitted to the Office in connection with a prior application, namely Application Serial No. 18/099,175, and/or other patent applications in this patent family, which are relied upon in the current application for an earlier filing date under 35 U.S.C. §120. Pursuant to 37 C.F.R. 1.98(d), copies of such previously submitted items are not provided herein.

Respectfully submitted,
MUNCK WILSON MANDALA, LLP
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PATENT CENTER #	64202507	FILING DATE	-
CUSTOMER #	25883	FIRST NAMED INVENTOR	Sivakumar CHATURVEDI
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 7

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
DAM35891 ADS.pdf	9	Application Data Sheet	2225 KB
DAM35891 ASSMT DEC GUNDABATHULA EXE.pdf	1	Oath or Declaration filed	68 KB
DAM35891 ASSMT DEC CHATURVEDI EXE.pdf	1	Oath or Declaration filed	68 KB
DAM35891 ASSMT DEC HIREMATH EXE.pdf	1	Oath or Declaration filed	67 KB
DAM35891 FRML DWGS.pdf	12	Drawings-only black and white line drawings	3970 KB
DAM35891 CON APP-APP.TEXT.docx	31	Application body structured text document	53 KB

DAM35891 Auxiliary App.pdf	31	Auxiliary PDF of Application	159 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
DAM35891 ADS.pdf	0E2422A28166636A225B38C2CAD48804862D0FE66CA74C9C03E045FF08F110306FF3671AE674AC578A5B9CF2433B5D42E66559AAFBCC9EB9BDB23116BD3E305A
DAM35891 ASSMT DEC GUNDABATHULA EXE.pdf	4186BE4692B7FD9A2E336FA2A304A000B16576AF49AD4C3D6812E3A987E66BBCB32F32B66585894C4A03D81D69483FCDB1F35C82D2E4153463C630720EBD2796
DAM35891 ASSMT DEC CHATURVEDI EXE.pdf	BE2102BFB987D10BBE469D3B31FBAFA015A2999BA8D8054D7E74221349B29B6F109EB03CAD08E57BCEBB6FB113BAC5E2A88451296627CF225ACCF16B17E5D6DC
DAM35891 ASSMT DEC HIREMATH EXE.pdf	58E00620FCD2B40DB5225E95498C6CF4B7E91EAB592F12431CCB6861D4D25B1DBDA5A228A7160C9D789D0D4D0CBBBB860BE7A011D16F8BCADA28FC589E80E2B0
DAM35891 FRML DWGS.pdf	6B483C51A49B99B36970347F0741F113AD68ACA8BE7372BAEA6BA538610F8EAF8383EF7E66EE6F91F5BC73FEF8582C9996643DEC3B7D960718308E13B5BC8EC5
DAM35891 CON APP-APP.TEXT.docx	2416AD9636435377AC2C659BC72CCAE45EED49DB7F2A10DD0A25C6C26DEDFF7C81C3DEA1337E50FDCB6EF26E06313669A7E68FAA9B90CD45B16E63CD2802AAA7
DAM35891 Auxiliary App.pdf	57DF395F7B451CDC0A59D6D66001376FB2C64D4FAC2D0D6038B8671A4AB9D045605EA34B0E55CB59B3A0EE040724A9EB6D9C863CE698E21D4C4E17A655879785

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for 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.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/432,148	**02/05/2024 09:36:18 AM Z ET**	**DAMA60-35891**

Title of Invention

SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5745	FILED BY	Keith Harden
PATENT CENTER #	64202507	AUTHORIZED BY	-
CUSTOMER #	25883	FILING DATE	-
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Sivakumar CHATURVEDI

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 500208	**E202425036398350**	**Keith Harden**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2111	UTILITY PATENT APPL. SEARCH FEE	280.00	1	280.00
4011	BASIC FILING FEE- UTILITY	64.00	1	64.00
2311	EXAMINATION OF ORIGINAL PATENT APPLICATION	320.00	1	320.00
			TOTAL AMOUNT:	**$664.00**

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Attorney Docket No. DAMA-31813 Worldwide Rights

ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63

(For Use with Signed Application Data Sheet)

Title of Invention: SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

This assignment and declaration are directed to (check one):

- ☐ the attached application;
- ☒ the application identified by the attorney docket no. and title of invention given above;
- ☐ United States Application or PCT International Application No. _____, filed _____.

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, as a below-named inventor I have sold and assigned, and by these presents hereby sell and assign, unto:

Name of Assignee: **DAMAKA, INC.**

Address of Assignee: **2460 N. CENTRAL EXPRESSWAY, #202, RICHARDSON, TX 75080**

(hereinafter ASSIGNEE) all my right, title and interest in and to the above-identified invention in any form or embodiment thereof, in the United States and all foreign countries, including applications for patents in the United States and all countries of the world and through the Patent Cooperation Treaty and/or the European Patent Convention, including any and all applications claiming priority thereto such as divisions or continuations thereof, and in and to any and all patents granted in the United States and all countries of the world that may issue on any such applications or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, or assigns to the full end of the term or terms for which any and all such patents may be granted as fully and entirely as would have been held and enjoyed by me had this Assignment not been made.

I hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue any and all Letters Patent of the United States to said ASSIGNEE, its successors, or assigns in accordance herewith.

I warrant and covenant that I have the full and unencumbered right to sell and assign the interests herein sold and assigned and that I have not executed and will not execute any document or instrument in conflict herewith.

I further covenant and agree that I will communicate to said ASSIGNEE, its successors, legal representatives, or assigns all information known to me relating to said invention or patent application and that I will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings, and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives, or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all patents that may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns, or to assist said ASSIGNEE, its successors, legal representatives, or assigns in obtaining, reissuing, or enforcing patents for said invention.

DECLARATION

As a below-named inventor, I hereby declare that:

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

Signature: _____ 04/10/2013

Rashmi HIREMATH

Inventor: DATE

Attorney Docket No. DAMA-31813 Worldwide Rights

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Address of Assignee: **2460 N. CENTRAL EXPRESSWAY, #202, RICHARDSON, TX 75080**

(hereinafter ASSIGNEE) all my right, title and interest in and to the above-identified invention in any form or embodiment thereof, in the United States and all foreign countries, including applications for patents in the United States and all countries of the world and through the Patent Cooperation Treaty and/or the European Patent Convention, including any and all applications claiming priority thereto such as divisions or continuations thereof, and in and to any and all patents granted in the United States and all countries of the world that may issue on any such applications or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, or assigns to the full end of the term or terms for which any and all such patents may be granted as fully and entirely as would have been held and enjoyed by me had this Assignment not been made.

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I further covenant and agree that I will communicate to said ASSIGNEE, its successors, legal representatives, or assigns all information known to me relating to said invention or patent application and that I will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings, and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives, or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all patents that may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns, or to assist said ASSIGNEE, its successors, legal representatives, or assigns in obtaining, reissuing, or enforcing patents for said invention.

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Signature: _____ 9/10/2013

Satish GUNDABATHULA

Inventor: DATE

Attorney Docket No. DAMA-31813 Worldwide Rights

ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63

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Signature: _____ 9/10/2013

Sivakumar CHATURVEDI

Inventor: DATE

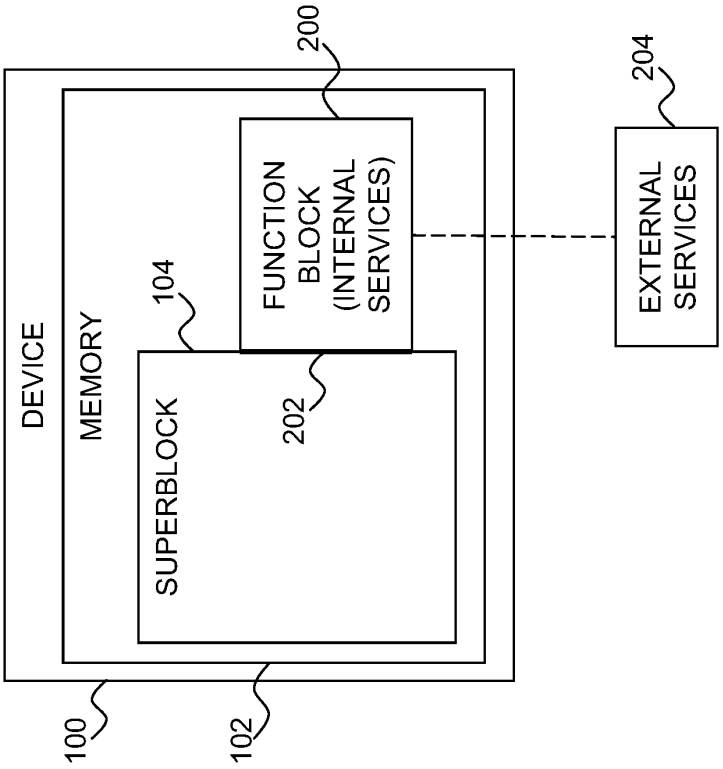

200
204
DEVICE
MEMORY
104
FUNCTION BLOCK (INTERNAL SERVICES)
EXTERNAL SERVICES
SUPERBLOCK
202
100
102

FIG. 2A

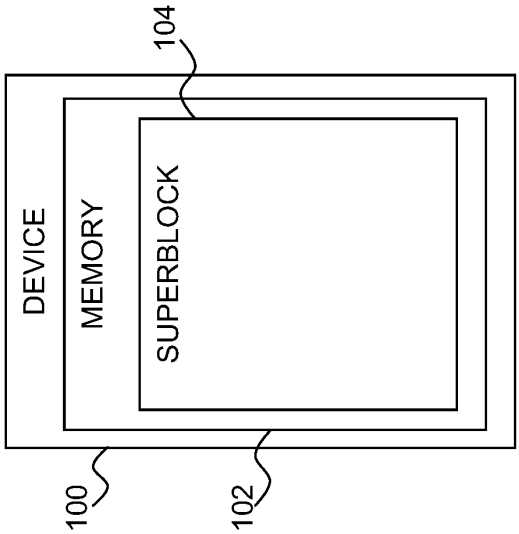

104
DEVICE
MEMORY
SUPERBLOCK
100
102

FIG. 1

FIG. 2B

FIG. 3A

FIG. 3B

FIG. 3C

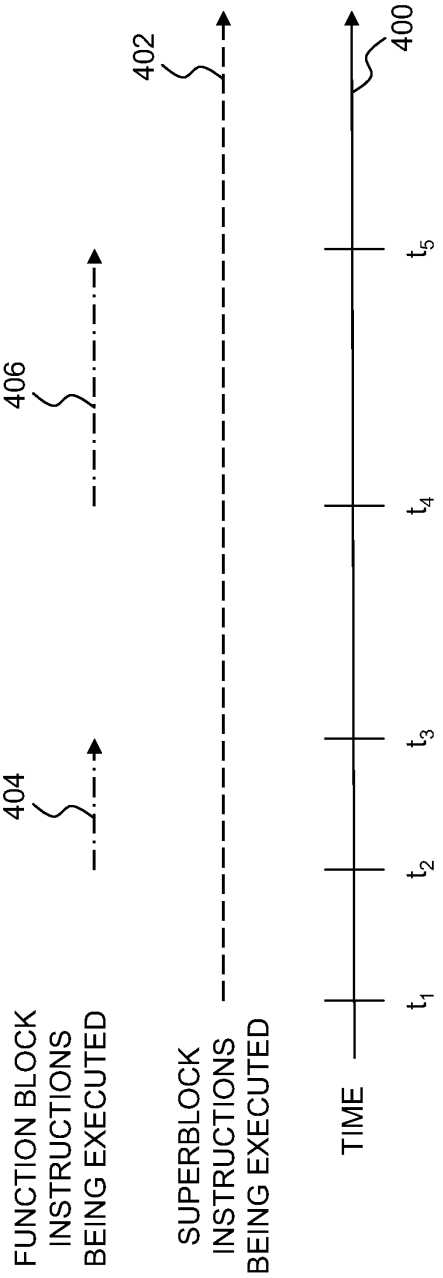

400
402
404
406
FUNCTION BLOCK INSTRUCTIONS BEING EXECUTED
SUPERBLOCK INSTRUCTIONS BEING EXECUTED
TIME
t_1
t_2
t_3
t_4
t_5

FIG. 4

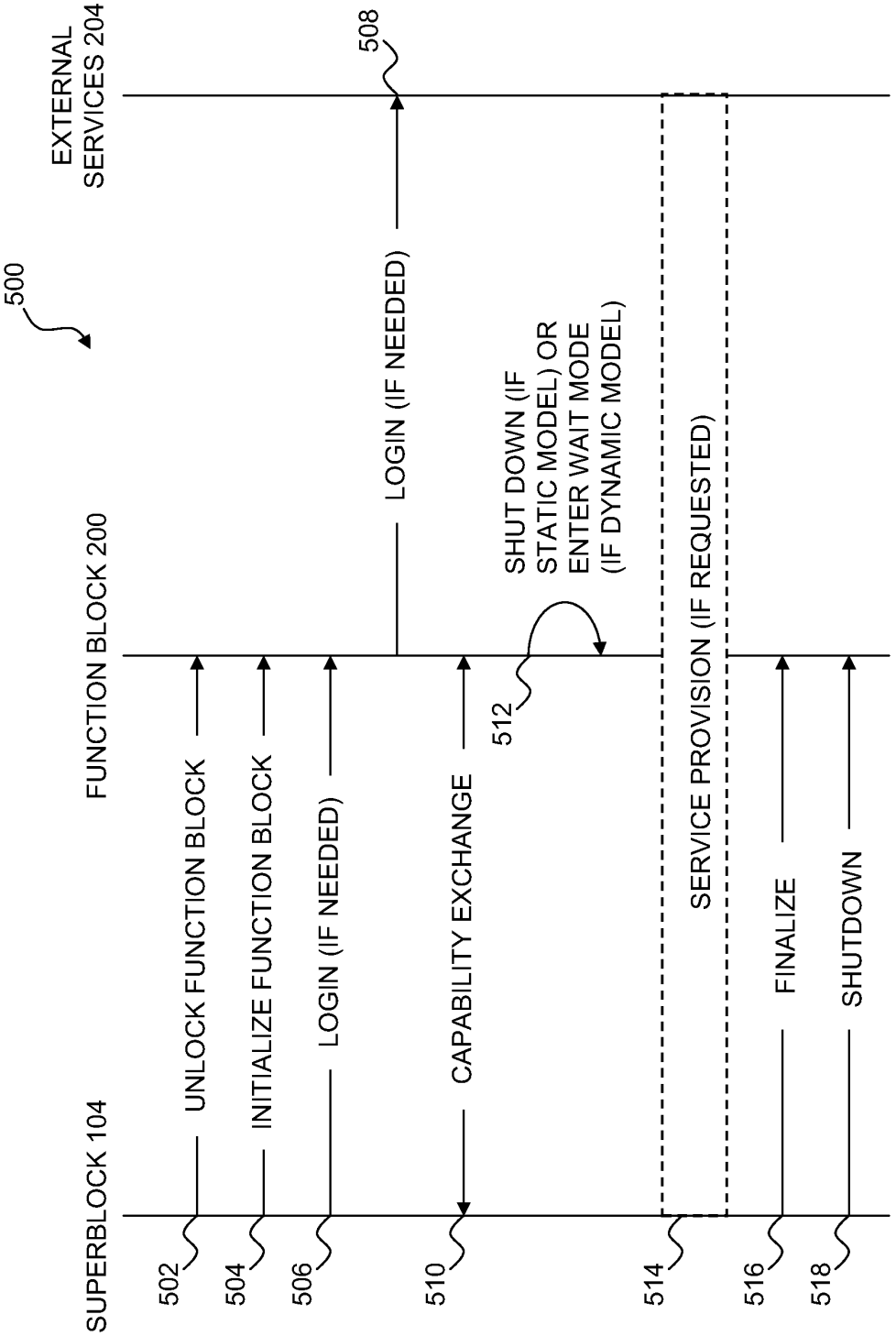

500
SUPERBLOCK 104
FUNCTION BLOCK 200
EXTERNAL SERVICES 204
UNLOCK FUNCTION BLOCK
INITIALIZE FUNCTION BLOCK
LOGIN (IF NEEDED)
CAPABILITY EXCHANGE
LOGIN (IF NEEDED)
SHUT DOWN (IF STATIC MODEL) OR ENTER WAIT MODE (IF DYNAMIC MODEL)
SERVICE PROVISION (IF REQUESTED)
FINALIZE
SHUTDOWN
502
504
506
508
510
512
514
516
518

FIG. 5

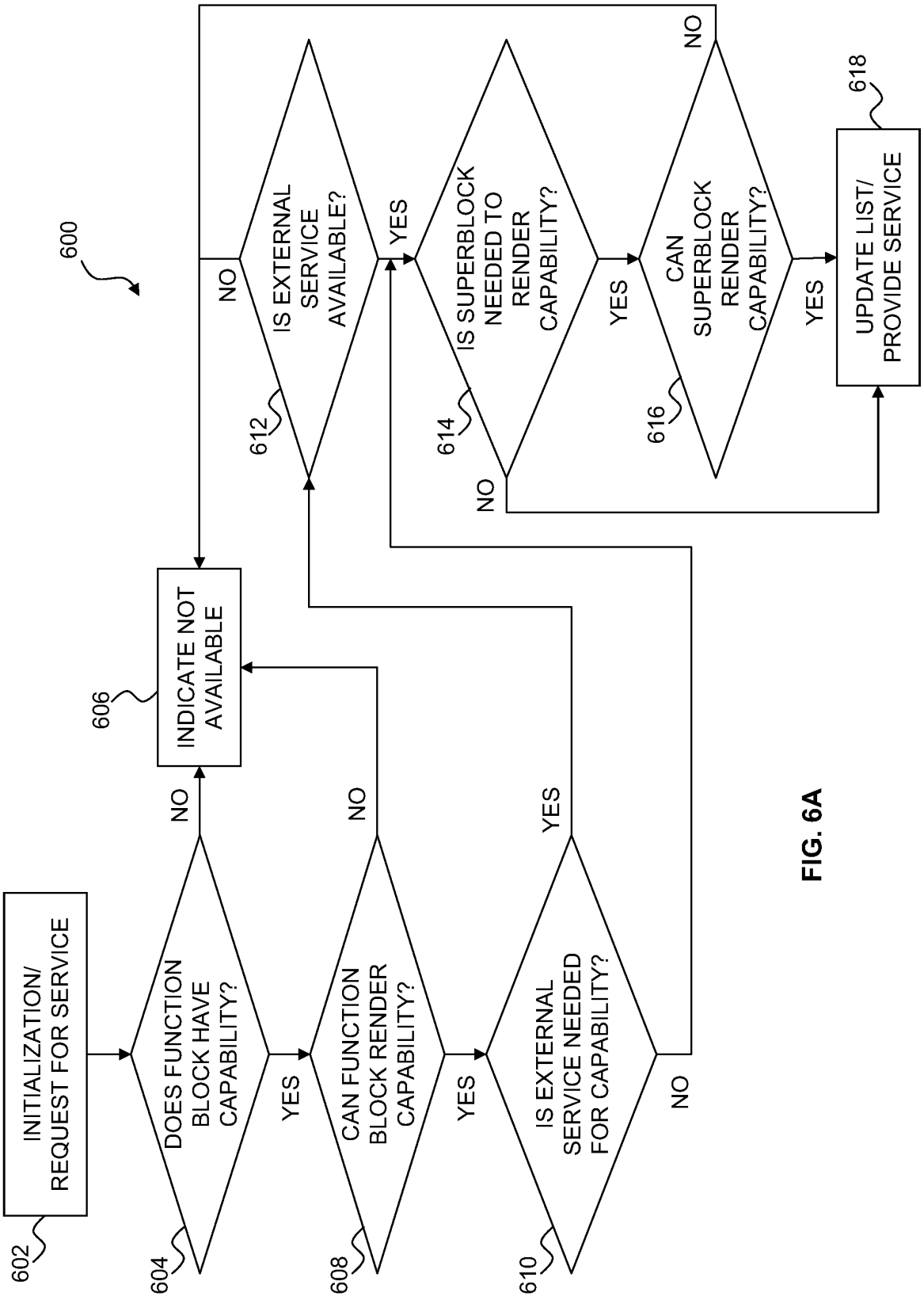

600
INITIALIZATION/ REQUEST FOR SERVICE
602
DOES FUNCTION BLOCK HAVE CAPABILITY?
604
CAN FUNCTION BLOCK RENDER CAPABILITY?
608
IS EXTERNAL SERVICE NEEDED FOR CAPABILITY?
610
IS EXTERNAL SERVICE AVAILABLE?
612
IS SUPERBLOCK NEEDED TO RENDER CAPABILITY?
614
CAN SUPERBLOCK RENDER CAPABILITY?
616
UPDATE LIST/ PROVIDE SERVICE
618
INDICATE NOT AVAILABLE
606
NO
YES
NO
YES
NO
YES
NO
YES
NO
YES

FIG. 6A

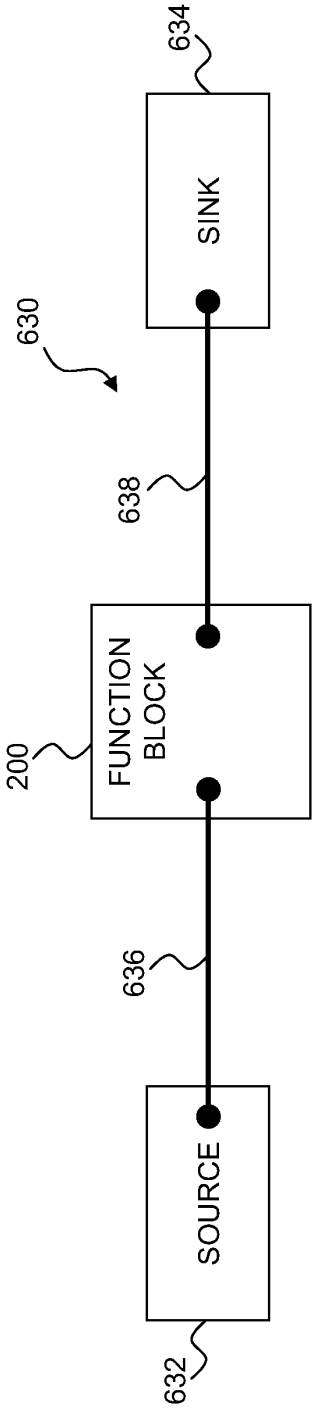

630
634
SINK
638
FUNCTION BLOCK
200
636
SOURCE
632

FIG. 6B

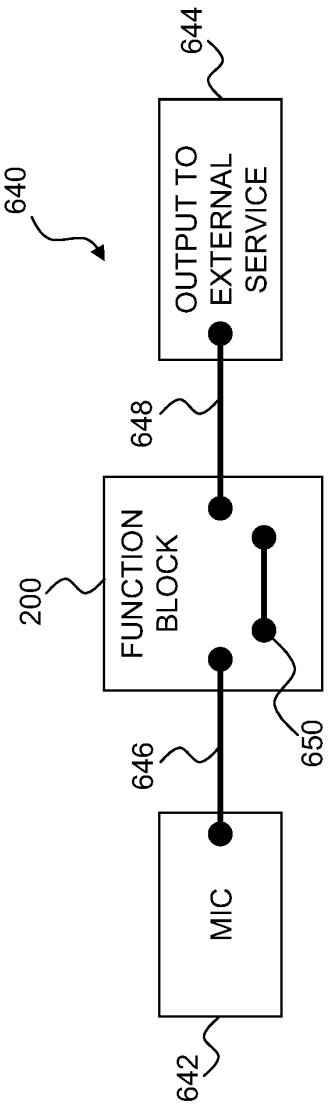

640
644
OUTPUT TO EXTERNAL SERVICE
648
FUNCTION BLOCK
200
646
650
MIC
642

FIG. 6C

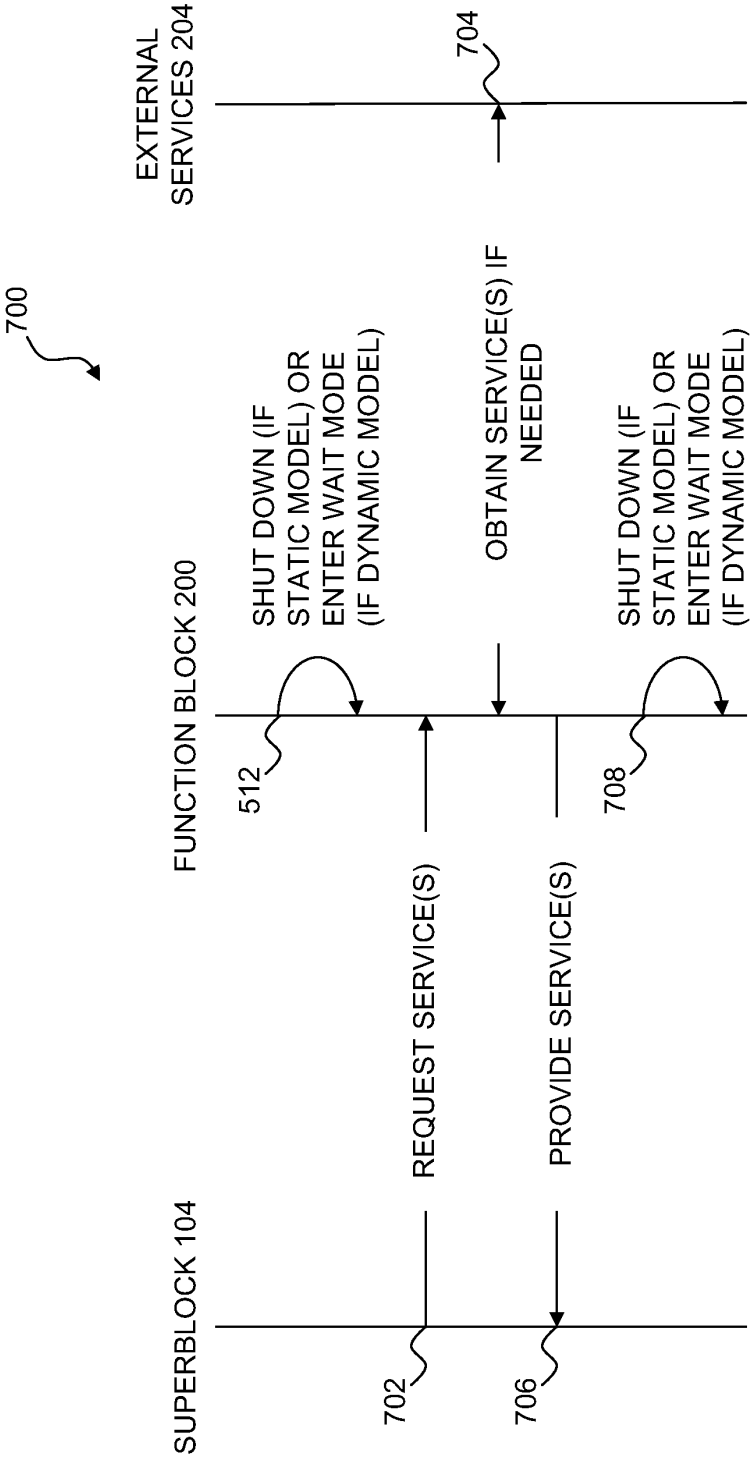

700
SUPERBLOCK 104
FUNCTION BLOCK 200
EXTERNAL SERVICES 204
SHUT DOWN (IF STATIC MODEL) OR ENTER WAIT MODE (IF DYNAMIC MODEL)
OBTAIN SERVICE(S) IF NEEDED
SHUT DOWN (IF STATIC MODEL) OR ENTER WAIT MODE (IF DYNAMIC MODEL)
REQUEST SERVICE(S)
PROVIDE SERVICE(S)
512
702
704
706
708

FIG. 7

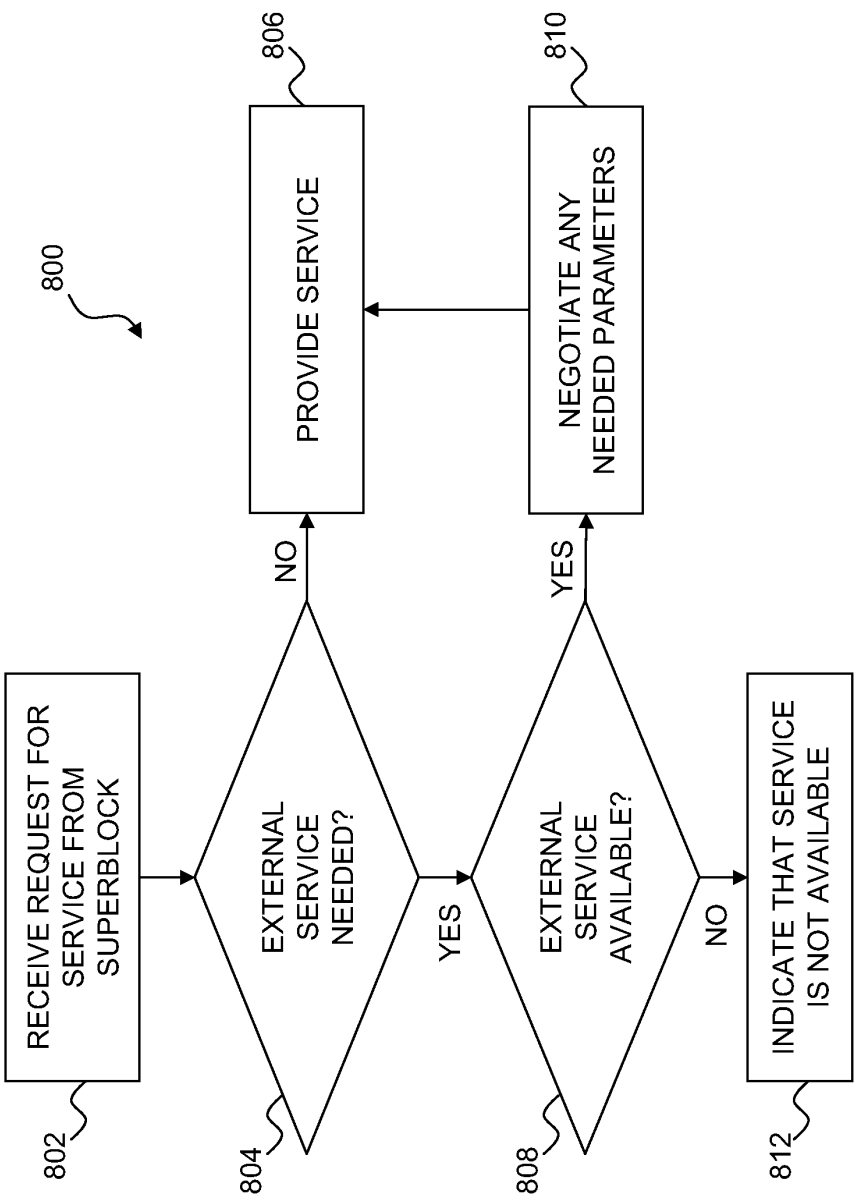

800
RECEIVE REQUEST FOR SERVICE FROM SUPERBLOCK
802
EXTERNAL SERVICE NEEDED?
804
NO
YES
PROVIDE SERVICE
806
EXTERNAL SERVICE AVAILABLE?
808
YES
NO
NEGOTIATE ANY NEEDED PARAMETERS
810
INDICATE THAT SERVICE IS NOT AVAILABLE
812

FIG. 8

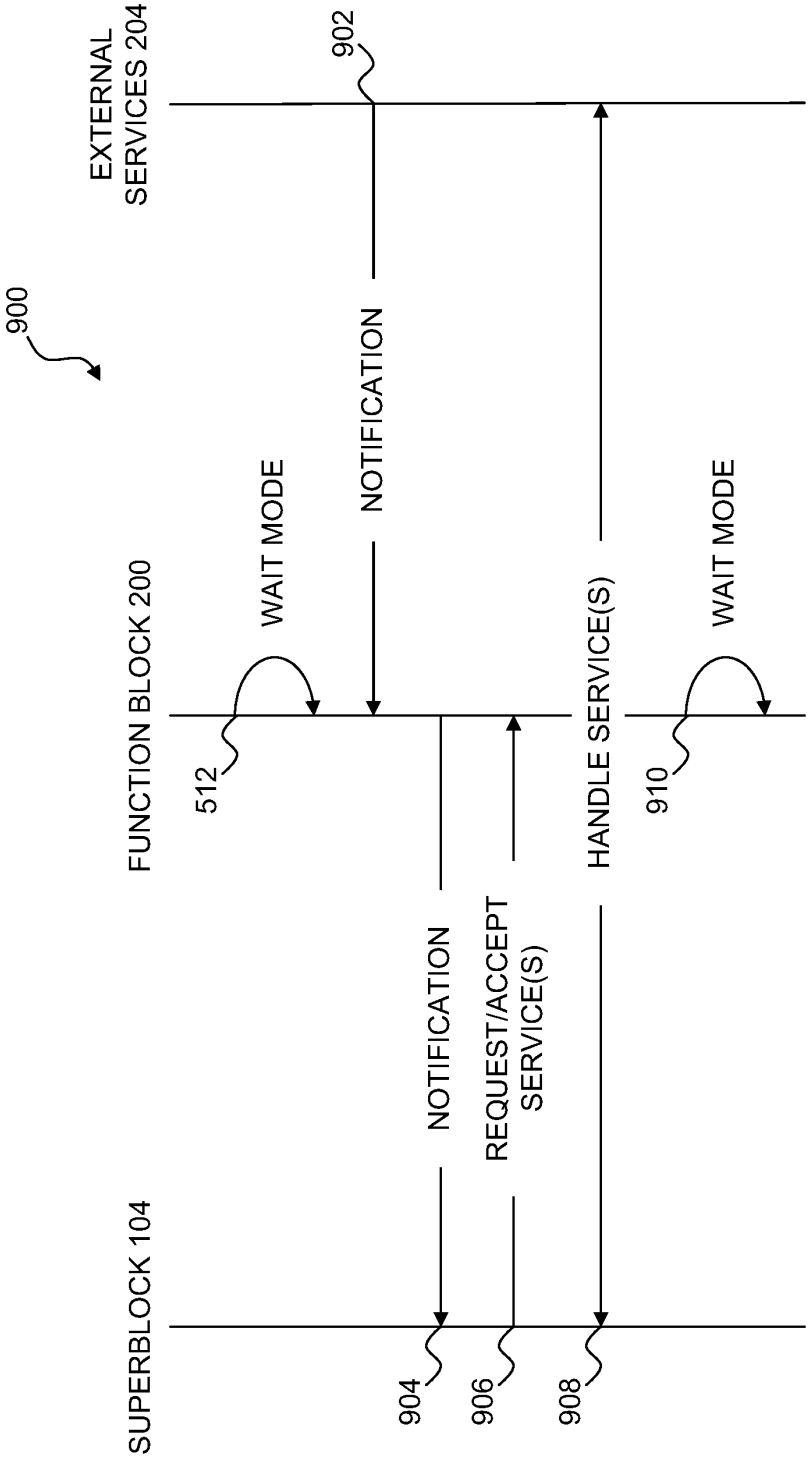

900
EXTERNAL SERVICES 204
902
FUNCTION BLOCK 200
WAIT MODE
512
NOTIFICATION
HANDLE SERVICE(S)
WAIT MODE
910
NOTIFICATION
904
REQUEST/ACCEPT SERVICE(S)
906
908
SUPERBLOCK 104

FIG. 9

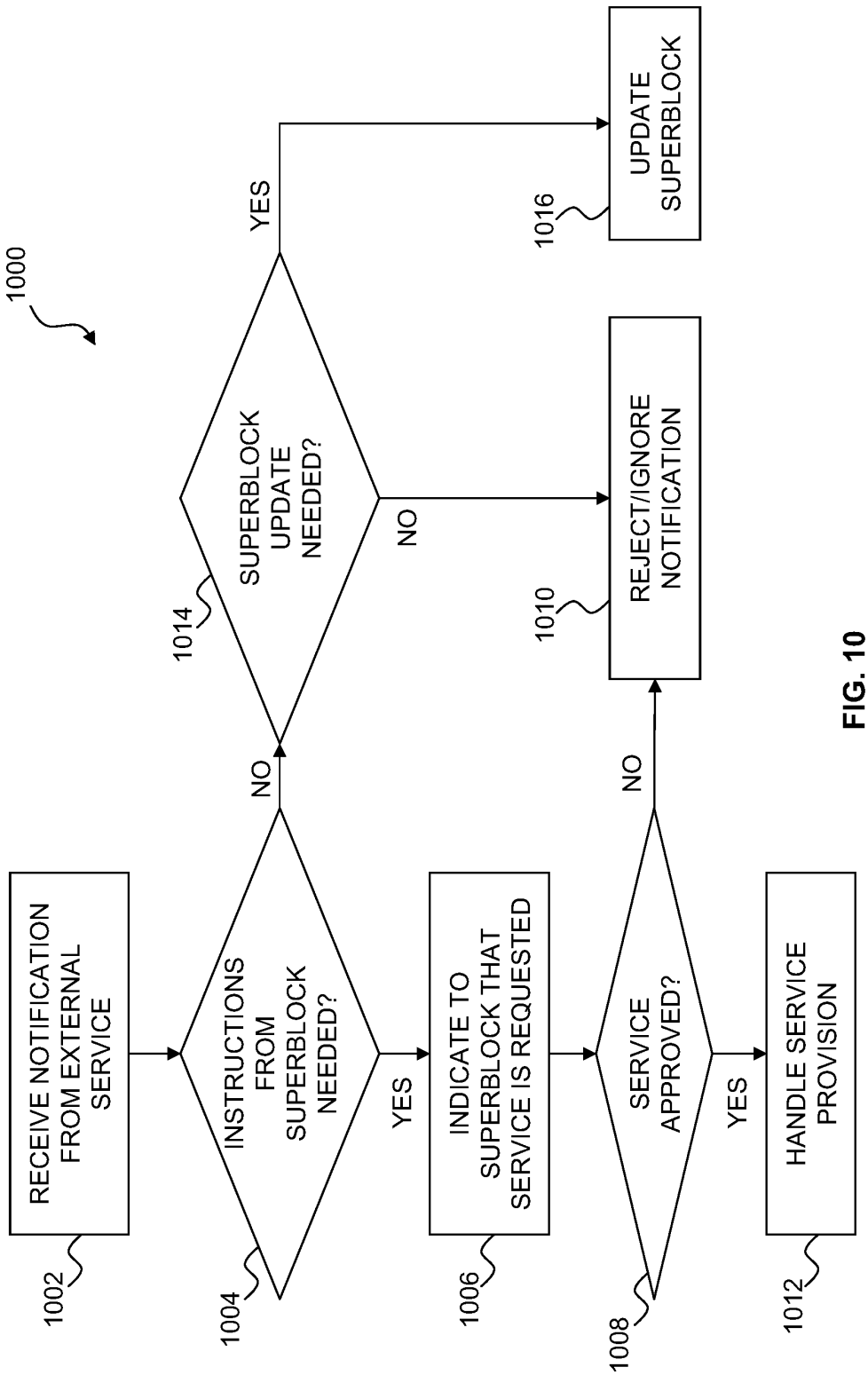

1000
RECEIVE NOTIFICATION FROM EXTERNAL SERVICE
1002
INSTRUCTIONS FROM SUPERBLOCK NEEDED?
1004
YES
NO
INDICATE TO SUPERBLOCK THAT SERVICE IS REQUESTED
1006
SERVICE APPROVED?
1008
YES
NO
HANDLE SERVICE PROVISION
1012
SUPERBLOCK UPDATE NEEDED?
1014
YES
NO
UPDATE SUPERBLOCK
1016
REJECT/IGNORE NOTIFICATION
1010

FIG. 10

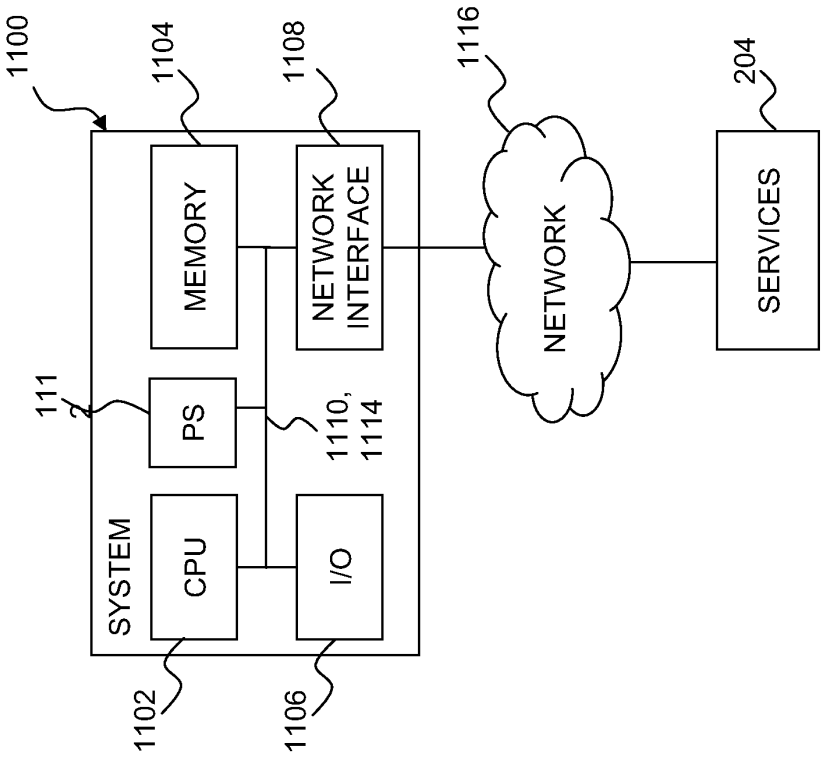

1100
1104
1108
1116
204
MEMORY
NETWORK INTERFACE
NETWORK
SERVICES
111
2
PS
1110,
1114
SYSTEM
CPU
I/O
1102
1106

FIG. 11

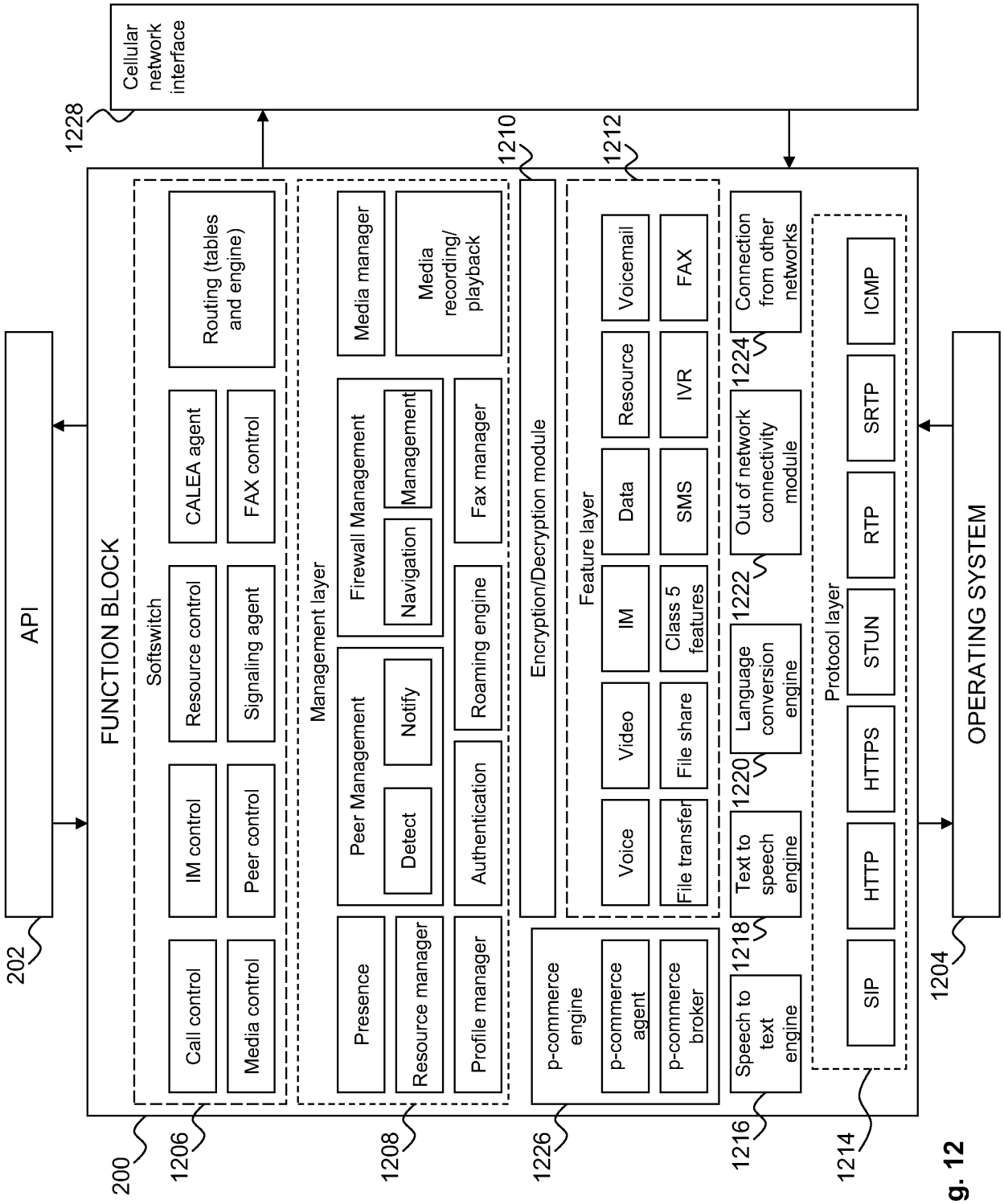

Cellular network interface
1228
API
202
FUNCTION BLOCK
200
Softswitch
1206
Call control
Media control
IM control
Peer control
Resource control
Signaling agent
CALEA agent
FAX control
Routing (tables and engine)
Management layer
1208
Presence
Resource manager
Peer Management
Detect
Notify
Profile manager
Authentication
Roaming engine
Firewall Management
Navigation
Management
Fax manager
Media manager
Media recording/ playback
Encryption/Decryption module
1210
p-commerce engine
p-commerce agent
p-commerce broker
1226
Feature layer
1212
Voice
Video
IM
Data
Resource
Voicemail
File transfer
File share
Class 5 features
SMS
IVR
FAX
1216
Speech to text engine
1218
Text to speech engine
1220
Language conversion engine
1222
Out of network connectivity module
1224
Connection from other networks
1214
Protocol layer
SIP
HTTP
HTTPS
STUN
RTP
SRTP
ICMP
1204
OPERATING SYSTEM

Fig. 12

PTO/AIA/14 (01-22)
Approved for use through 05/31/2024. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	DAMA60-35891
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Sivakumar		CHATURVEDI	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Allen	State/Province	TX	Country of Residence	US

Mailing Address of Inventor:

Address 1	1210 Cordova Drive		
Address 2			
City	Allen	State/Province	TX
Postal Code	75013	Country	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Satish		GUNDABATHULA	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

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Mailing Address of Inventor:

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Address 2			
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Inventor 3 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Rashmi		HIREMATH	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	DAMA60-35891
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER	

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Postal Code	75013	Country	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	25883		
Email Address		Add Email	Remove Email

Application Information:

Title of the Invention	SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER		
Attorney Docket Number	DAMA60-35891	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)		Suggested Figure for Publication (if any)	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

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Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	(•) Customer Number	( ) US Patent Practitioner	( ) Limited Recognition (37 CFR 11.9)
Customer Number	25883		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	18099175	2023-01-19

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
18099175	Continuation of	17109488	2020-12-02	11576046	2023-02-07

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
17109488	Continuation of	16543689	2019-08-19	10863357	2020-12-08

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16543689	Continuation of	15431046	2017-02-13	10387220	2019-08-20

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15431046	Continuation of	15297328	2016-10-19	9578092	2017-02-21

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	DAMA60-35891
	Application Number	
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Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15297328	Continuation of	15049891	2016-02-22	9491233	2016-11-08
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15049891	Continuation of	14690619	2015-04-20	9270744	2016-02-23
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14690619	Continuation of	14024027	2013-09-11	9027032	2015-05-05
Prior Application Status	Expired			Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
14024027	Claims benefit of provisional	61846958	2013-07-16		
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.			Add		

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

			Remove
Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)
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Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

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	Application Number	
Title of Invention	SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER	

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

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Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	DAMA60-35891
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1 Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	Damaka, Inc.		
Mailing Address Information For Applicant:			
Address 1	2460 N. Central Expressway, #202		
Address 2			
City	Richardson	**State/Province**	TX
Country	US	Postal Code	75080
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button. Add

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add

Signature:

Remove

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Keith D. Harden, Reg. #74472/			Date (YYYY-MM-DD)	2024-02-05
First Name	Keith	Last Name	Harden	Registration Number	74472

Additional Signature may be generated within this form by selecting the Add button. Add

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	DAMA60-35891
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER	

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The information provided by you in this form will be subject to the following routine uses:

1 The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3 A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent CooperationTreaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of U.S. Application No. 18/099,175, filed January 19, 2023, entitled SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER, which is a continuation of U.S. Application No. 17/109,488, filed December 2, 2020, entitled SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER, which is a continuation of U.S. Application No. 16/543,689, filed August 19, 2019, entitled SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER, issued as U.S. Patent No. 10,863,357 on December 8, 2020, which is a continuation of U.S. Application No. 15/431,046, filed on February 13, 2017, entitled SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER, issued as U.S. Patent No. 10,387,220, on August 20, 2019, which is a continuation of U.S. Application No. 15/297,328, filed on October 19, 2016, entitled SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER, issued as U.S. Patent No. 9,578,092, issued on February 21, 2017, which is a continuation of U.S. Application No. 15/049,891, filed on February 22, 2016, entitled SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER, issue as U.S. Patent No. 9,491,233 on November 8, 2016, which is a continuation of U.S. Application No. 14/690,619, filed April 20, 2015, entitled SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER, issued as U.S. Patent No. 9,270,744 on February 23, 2016, which is a continuation of U.S. Application No. 14/024,027, filed on September 11, 2013, entitled SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER, issued as U.S. Patent No. 9,027,032 on May 5, 2015, which claims the benefit of U.S. Provisional Application No. 61/846,958, filed on July 16, 2013, entitled SYSTEM AND METHOD FOR

PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER. U.S. Application Nos. 18/099,175, 17/109,488, 16/543,689, 15/431,046, 15/297,328, 15/049,891, 14/690,619, 14/024,027 and 61/846,958 are incorporated by reference herein in their entirety.

BACKGROUND

[0002] The manner in which functionality is accessed in certain environments, such as mobile device environments, may impact performance and/or battery life. Accordingly, what is needed are a system and method that addresses these issues.

BRIEF DESCRIPTION OF THE DRAWINGS

[0003] For a more complete understanding, reference is now made to the following description taken in conjunction with the accompanying Drawings in which:

[0004] FIG. 1 illustrates one embodiment of a device having a memory and a superblock stored within the memory;

[0005] FIG. 2A illustrates one embodiment of the device of FIG. 1 with the addition of a function block;

[0006] FIG. 2B illustrates one embodiment of the device of FIG. 2A with a superblock application displayed simultaneously with the additional functionality provided by a function block;

[0007] FIG. 3A illustrates one embodiment of the function block of FIG. 2 incorporated into the superblock;

[0008] FIG. 3B illustrates one embodiment of the superblock of FIG. 3A nested within another superblock;

[0009] FIG. 3C illustrates one embodiment of the function block of FIG. 2 incorporated into the superblock in multiple parts;

[0010] FIG. 4 illustrates one embodiment of a timeline showing the execution of superblock and function block instructions;

[0011] FIG. 5 illustrates a sequence diagram of one embodiment of a process that may be executed to access the functionality provided by the function block of FIG. 2;

[0012] FIG. 6A illustrates a flow chart of one embodiment of a process by which the function block may determine the services that can be provided to the superblock during the process of FIG. 5;

[0013] FIG. 6B illustrates one embodiment of a diagram showing a source and a sink coupled by the function block of FIG. 2;

[0014] FIG. 6C illustrates a more detailed embodiment of the diagram of FIG. 6B;

[0015] FIG. 7 illustrates a sequence diagram of one embodiment of a process that may be executed by the function block of FIG. 2 to respond to a service request from the superblock;

[0016] FIG. 8 illustrates a flow chart of one embodiment of a process by which the function block may determine whether to provide external services in responding to the service request of FIG. 7;

[0017] FIG. 9 illustrates a sequence diagram of one embodiment of a process that may be executed by the function block of FIG. 2 to respond to a notification from an external service;

[0018] FIG. 10 illustrates a flow chart of one embodiment of a process by which the function block may determine how to handle the notification of FIG. 9;

[0019] FIG. 11 illustrates one embodiment of a system that may be used for the device of FIG. 1; and

[0020] FIG. 12 illustrates one embodiment of the function block of FIG. 2.

DETAILED DESCRIPTION

[0021] It is understood that the following disclosure provides many different embodiments or examples. Specific examples of components and arrangements are described below to simplify the present disclosure. These are, of course, merely examples and are not intended to be limiting. In addition, the present disclosure may repeat reference numerals and/or letters in the various examples. This repetition is for the purpose of simplicity and clarity and does not in itself dictate a relationship between the various embodiments and/or configurations discussed.

[0022] Referring to FIG. 1, in one embodiment, a device 100 includes a memory 102. The memory 102 stores a superblock 104, which may be a set of executable instructions used to perform one or more functions via the device 100. For example, the device 100 may be a mobile device and the superblock 104 may be an application (the "superblock application") on the mobile device. The instructions of the superblock 104 enable a user of the mobile device to perform one or more actions, such as communications, data manipulation, and/or data management. However, the functionality of the superblock application is constrained to some degree by the device 100 and by the instructions of the superblock itself.

[0023] With respect to the device 100, the amount of available memory, how the memory 102 is structured (e.g., segment sizes), and how the memory is managed (e.g., how much memory is allocated to the superblock 104, how swapping occurs when another application needs physical memory, and how multiple applications are handled) are generally outside of the control of the superblock 104. However, mobile devices frequently provide a separate memory space for each application that is being run and so must keep track of the memory boundaries for each application. This tracking requires resources, such as processing time and power.

[0024] Furthermore, as a user switches between applications (e.g., switches contexts), the device 100 may have to swap instructions into and out of physical memory, which impacts performance and battery life. While context switching occurs in other devices, such as desktop and laptop computers, the resource impact used for those context switches is generally lower due to the greater amount of resources available for such devices compared to mobile devices. For example, as mobile devices generally have a smaller memory footprint compared to larger devices

such as desktop and laptop computers, not only will a mobile device likely need to swap files in and out of memory when a context switch occurs, but the processor load and battery life will likely be negatively impacted on the mobile device more than would occur on larger devices having more resources. In addition, while a single application may use multi-threading and therefore require the allocation of processor time for different threads, swapping between applications is generally a more resource intensive task for a mobile device.

[0025] With respect to the instructions of the superblock 104, additional functionality may be desired for the superblock application that is not provided by the instructions. For example, the superblock application may not currently support a particular type of data and/or operation (e.g., audio, video, email, and/or file transfer) and it may be desirable for the superblock application to do so. To provide such additional functionality, instructions would have to be added to the superblock 102 to give the superblock application the ability to support the data type and/or operation. This process typically entails reworking the superblock application to include the desired functionality and then releasing the updated version of the superblock application for use. Depending on the complexity and nature of the superblock application and the desired functionality, this process may take a substantial amount of time, effort, and/or expense.

[0026] One alternative is to use another application to provide the desired functionality, but this may not be a satisfactory solution. For example, assume the superblock 102 provides a superblock application that needs email functionality. On current mobile devices, a user would typically select a link in the superblock application, such as an email address. Selection of the link would launch an email application (or switch context to an email application if one is already running), which removes the user from the superblock application and places the user in the email application. The user would then compose and send the email before switching back to the superblock application. This process of leaving the superblock application, performing some other function, and then returning to the superblock application is currently a common occurrence for mobile device users.

[0027] However, this process is disruptive, difficult to manage, and pulls the user away from the superblock application while the provider of the superblock application may want the user to continue to stay in their application. Furthermore, the functions of the superblock application are

not available while in the other application, and so the user may have to switch back and forth between the superblock application and the other application in order to interact with both applications. This is inefficient and frustrating for the user, and may also increase the number of errors in the text of the email since both applications are not simultaneously available for reference.

[0028] Another example is a video window for a phone call. Assume a user is in the superblock application and has a question about data that the superblock application is displaying. In order to call and visually interact with someone about the question and still have access to the data, the user has to conduct the call while switching back and forth between the video window of the call and the superblock application. This is extremely disruptive to the user and limits the benefits of the video call, which include the ability to interact with someone on a visual basis rather than just an audio basis.

[0029] Yet another example is a user walking around a shop floor, engaged in his or her duties. In order to join a virtual meeting, the user will have to exit the superblock application, find and/or enter the meeting information using another application, and join the meeting using the other application. As with the preceding example, this is extremely disruptive to the user, wastes time, and lowers productivity.

[0030] Referring to FIGS. 2A and 2B, in another embodiment, the superblock 104 of FIG. 1 is illustrated with a function block 200 attached via a glue point 202 (FIG. 2A). It is understood that FIG. 2A is for purposes of illustration and may not represent an actual arrangement of the superblock 104 and function block 200 in the memory 102.

[0031] The function block 200 includes instructions for providing the superblock 104 with one or more functions (e.g., capabilities) that are not otherwise possessed by the superblock 104. Such functions are illustrated in part with respect to FIG. 12, and may include instant messaging, presence (e.g., online, offline, and away), audio, video, collaboration (e.g., sharing of applications, documents, and/or files), whiteboard, file transfer, email, backgrounding, push notifications, conferencing, meetings, and/or other functions. Continuing the previous examples, the function block 200 may provide email or video capabilities for the superblock 104 and does so by providing those capabilities within the superblock application. Although the functions need not be provided

visually as shown in FIG. 2B (e.g., in the case of playing an audio file), visual functions may also be presented without leaving the superblock application display. In other words, there is no need to switch context to an email application or to any other application in order to access the additional functionality provided by the function block 200.

[0032] To accomplish this, the function block 200 may be provided as a set of instructions that are included in the superblock 104. For example, the function block 200 may be provided as a software developer's kit (SDK) or as an otherwise independent module by a developer unrelated to the superblock 104. The developer of the superblock 104 may then compile or otherwise include the function block instructions in the superblock 104. This ensures that the function block 200 will occupy the same memory space as the superblock 104 unless otherwise placed elsewhere by the mobile device 100. For example, as the superblock 104 likely has little or no control over how the mobile device 100 handles memory management, the mobile device may actually separate some or all of the instructions making up the superblock 104 and the function block 200. However, by including the instructions for the function block 200 within the instructions for the superblock 104, the likelihood that the instructions will be separated may be minimized. The independent nature of the function block 200 means that the developer of the superblock 104 needs little information about the operation of the function block 100 other than how to access the services.

[0033] Furthermore, the function block 200 may be handled by developers as a single block of instructions or as multiple blocks depending on the operating system environment. For example, the function block 200 may be handled as a single block in an environment such as iOS (a mobile operating system developed and distributed by Apple Inc. of Cupertino, California), while the function block 200 may be handled as multiple blocks in an environment such as Android (a mobile operating system released as open source by Google Inc. of Mountain View, California).

[0034] The function block 200 may be configurable after being distributed as part of the superblock application. For example, the function block 200 may provide access to certain parameters, such as network address information of a server for the external services 204. Other parameters, such as call parameters (e.g., payload size) may also be configurable.

[0035] The function block 200 may provide services in a self-contained manner (e.g., internal services that may be provided without needing support outside of the device 100) or may use one or more external services 204. The external services 204 may be provided via a server, a peer-to-peer endpoint, and/or by any other source with which the function block 200 is able to communicate. For example, the function block 200 may be able to provide audio/video playback services for a file stored in the memory 102 without needing anything outside of the device 100, assuming the device 100 includes a screen for displaying the video and speakers and/or a headset for sound output.

[0036] However, for an audio/video call session, the function block 200 needs to connect to another device in order to establish the session, even though it can play audio/video locally. In order to connect to the other device, the function block 200 may use the services 204. Accordingly, how the function block 200 handles a particular service request from the superblock 104 may depend on the specific service and the resource needs of that service. From the point of view of the superblock 104, whether the function block 200 uses local and/or external services does not matter as the superblock 104 is simply requesting the service from the function block 200. In embodiments that use an external service 204, the function block 200 is the entity between the superblock 104 and the external service 204, but does not control either the superblock 104 or the external service 204.

[0037] In the case of a request from the external services 204 (e.g., an incoming file transfer or phone call), the handling performed by the function block 200 may also depend on the specific service and the resource needs of that service. For example, the function block 200 may send a notification to the superblock 104 and wait for a response, or may handle the externally initiated request according to defined parameters.

[0038] Returning to the previous examples, the function block 200 may provide the superblock application with email functionality that enables a user to receive notifications, check email, and compose/edit/send/manage email without leaving the superblock application. For the audio/video phone call, the function block 200 may provide a video window for the phone call within the display of the superblock application, enabling a user to simultaneously see the video window and the superblock application. The video window may be resizable and/or movable. For the user

walking around on the shop floor, the function block 200 may enable the user to receive a meeting notification, accept the meeting, and enter the meeting, all within the superblock application. To accomplish this, the function block 200 may hook into the meeting information (e.g., on a server) and render this in the superblock application.

[0039] Referring to FIG. 3A, one embodiment of the superblock 104 illustrates the role of the glue point 202 in enabling the superblock 104 to interact with the function block 200. For example, the glue point 202 may be an application programming interface (API) and the superblock 104 may make API calls to the function block 200 to access the function block's capabilities. The function block 200 then provides services to the superblock 104 in response to the API calls. In some embodiments, the function block 200 may also provide notifications to the superblock 104 in response to events triggered by the external services 204.

[0040] In the present example, the set of instructions that make up the function block 200 may be used with many different applications and on many different platforms and accessed via the API 202, although some customization may be performed if needed or desired. The function block 200 may be viewed as a set of instructions providing intelligence needed to perform the tasks described herein, and that set of instructions may be compiled or otherwise incorporated into the instructions of the superblock 104. As the instructions can be incorporated into many different applications to satisfy many different needs, some of the capabilities provided by the function block 200 may not be used by a particular application, but may still be present. In other embodiments, functionality that is not desired may be removed to minimize the footprint of the function block 200.

[0041] One embodiment of a header for the function block 200 (referred to in the header text as the Amadeo block) may be as follows:

```
#ifndef AMADEOBLOCK_H
#define AMADEOBLOCK_H
#include <string>
#include <list>
#include "AmadeoBlockConfig.h"
#include "AmadeoBlockCB.h"
```

```
class AmadeoBlock
    {
    public:
        static AmadeoBlock& instance();
        static bool UnlockSDK( const std::string& key );
        virtual bool Initialize( const AmadeoBlockConfig& config,
AmadeoBlockCB* callback ) = 0;
        virtual bool Finalize() = 0;
        virtual bool Activate() = 0;
        virtual bool Deactivate() = 0;
        virtual bool SetPresence( const std::string& presence, const std::string&
text ) = 0;
        virtual bool AddContact( const std::string& contact, const std::string&
displayname, const std::string& group ) = 0;
        virtual bool DeleteContact( const std::string& contact, const std::string&
group ) = 0;
        virtual bool MoveContact( const std::string& contact, const std::string&
fromgroup, const std::string& togroup, const std::string& nickname ) = 0;
        virtual bool CopyContact( const std::string& contact, const std::string&
newgroup, const std::string& nickname ) = 0;
        virtual bool AuthorizeContact( const std::string& contact, const std::sring&
group ) = 0;
        virtual bool RejectContact( const std::string& contact ) = 0;
        virtual bool BlockContact( const std::string& contact ) = 0;
        virtual bool UnblockContact( const std::string& contact ) = 0;
        virtual bool AddGroup( const std::string &group ) = 0;
        virtual bool DeleteGroup( const std::string& group ) = 0;
        virtual bool RenameGroup( const std::string& oldgroup, const std::string&
newgroup ) = 0;
        virtual bool Search( const std::string& searchstring ) = 0;
        virtual bool SendIM( const std::string& who, const std::string& msg ) = 0;
```

```
virtual bool StartIMConf( std::string& roomid, const std::list<std::string>&
contacts, const std::string& subject ) = 0;
virtual bool EndIMConf( const std::string& roomid ) = 0;
virtual bool AcceptIMConf( const std::string& roomid ) = 0;
virtual bool SendConfIM( const std::string& roomid, const std::string&
msg ) = 0;
virtual bool AddPartyIMConf( const std::string& roomid, const
std::string& invitee ) = 0;
virtual bool StartFT( std::string& sessionid, const std::string& to, const
std::string& filename ) = 0;
virtual bool AcceptFT( const std::string& sessionid, const std::string&
pathtosave ) = 0;
virtual bool CancelFT( const std::string& sessionid ) = 0;
virtual bool DeclineFT( const std::string& sessionid ) = 0;
virtual bool CallStart( const std::string& calledparty, std::string& callid,
bool startvideo ) = 0;
virtual bool CallAccept( const std::string& callid, bool startvideo ) = 0;
virtual bool CallEnd( const std::string& callid ) = 0;
virtual bool CallHold( const std::string& callid ) = 0;
virtual bool CallUnhold( const std::string& callid ) = 0;
virtual bool CallMute( const std::string& callid ) = 0;
virtual bool CallUnmute( const std::string& callid ) = 0;
virtual bool AddVideo( const std::string& callid ) = 0;
virtual bool RemoveVideo( const std::string& callid ) = 0;
virtual bool CallTransfer( const std::string& callid, const std::string&
transferparty ) = 0;
virtual bool CallForward( const std::string& callid, const std::string&
forwardparty ) = 0;
virtual bool CallPark( const std::string& callid ) = 0;
virtual bool CallPickup( const std::string& slotid ) = 0;
virtual bool CallVoicemail( const std::string& callid ) = 0;
```

```
                virtual bool CallMerge( const std::string& callid, const std::string&
othercallid ) = 0;
                virtual bool CallUnmerge( const std::string& callid ) = 0;
                virtual bool SendDTMF( const std::string& callid, char digit ) = 0;
                virtual bool Escalate( const std::string& callid, const std::list<std::string>&
targets ) = 0;
                virtual bool Deescalate( const std::string& callid, const
std::list<std::string>& targets ) = 0;
                virtual bool VMRefresh() = 0;
                virtual bool VMFetch( const std::string& itemid ) = 0;
                virtual bool VMDelete( const std::string& itemid ) = 0;
                virtual bool VMPlay( const std::string& itemid ) = 0;
                virtual bool SharingStart( const std::string& callid ) = 0;
                virtual bool SharingStop( const std::string& callid ) = 0;
                virtual bool WBStart( const std::string& target, const std::string& wbid ) =
0;
                virtual bool WBEnd( const std::string& wbid ) = 0;
                virtual bool WBSend( const std::string& wbid, const std::string& wbdata )
= 0;
                virtual bool Logging(bool enable) = 0;
                virtual bool GoToBackground() = 0;
                virtual bool MonitorNetwork( bool checknetwork ) = 0;
        protected:
                AmadeoBlock();
        private:
                AmadeoBlock(const AmadeoBlock&);
                const AmadeoBlock& operator=(const AmadeoBlock&);
    };
    #endif // AMADEOBLOCK_H
```

[0042] Referring to FIG. 3B, another embodiment illustrates the superblock 104 as being part of another superblock 206. It is understood that any number of nested superblocks may be present.

The function block 200 may be accessible to only the superblock 104, or may be accessible to one or more of the other superblocks (e.g., the superblock 206), either directly or via the superblock 104. For example, the superblock 206 may be able to make an API call directly to the function block 200 in some embodiments, or may only be able to make a call through the superblock 104 in other embodiments (e.g., the superblock 206 may call the superblock 104 for a service, and the superblock 104 may in turn make an API call to the function block 200 for that service).

[0043] Referring to FIG. 3C, as previously stated, it is understood that the function block 200 need not be a single block in memory. As illustrated by blocks 200a and 200b, the function block 200 may be separated into different parts automatically (e.g., due to the operation of the operating system and how it handles memory allocation) or may be handled as separate parts during integration into the superblock application (e.g., by the developer of the superblock application).

[0044] Referring to FIG. 4, one embodiment of a timeline 400 illustrates the simultaneous operation of the superblock 104 and function block 200 when the instructions of the function block 200 are being executed to provide one or more services to the superblock application. The timeline 400 moves from left to right and includes five specific times t_1-t_5. At time t_1, the superblock instructions (as indicated by line 402) are being executed, but the function block 200 instructions are not. In other words, the superblock application is in use and has not called the function block API to provide any services. It is understood that the function block 200 may be in a waiting state at time t_1 and instructions of the function block 200 may be executed to maintain the waiting state, but the function block 200 is not actively providing services.

[0045] At time t_2, the superblock application calls the function block API or an external service contacts the function block 200, and the function block 200 instructions (as indicated by line 404) are executed to provide the service requested by the API call or handle the contact from the external service 204. The instructions for the superblock 104 and function block 200 are executed from time t_2 until time t_3, at which time the function block 200 is no longer needed and is shut down (although this may include going into the waiting state for purposes of example). The superblock instructions are executed from time t_3 until time t_4, at which time the function block 200 is again called (as indicated by line 406). The instructions for the superblock 104 and function block 200 are executed from time t_4 until time t_5, at which time the function block 200 is no longer needed

and is shut down (although this may include going into the waiting state for purposes of example) while the superblock instructions continue being executed.

[0046] Accordingly, while two different applications on a mobile device would not typically execute concurrently, the execution of the instructions for the superblock 104 and function block 200 as shown in FIG. 4 allows the function block 200 to provide additional capabilities to the superblock 104 through the use of API calls. By providing an interface for the function block 200 such as an API, the instructions of the superblock 104 may require minimal modification to access the capabilities provided by the function block 200.

[0047] Referring to FIG. 5, a sequence diagram 500 illustrates one embodiment of a process that may be executed to access the functionality provided by the function block 200. The superblock 104 may use the function block 200 under a static model or a dynamic model. In the static model, the superblock 104 calls for a specific function (e.g., video), the function block 200 provides the requested function (if available), the superblock 104 consumes the services provided, and the function block 200 is shut down. In the dynamic model, the function block 200 may enter a waiting state and wait for a request from the superblock 104 and/or a request or another event trigger from the external services 204 (e.g., an incoming call, email, or file transfer), handle the request, and then resume the waiting state.

[0048] In step 502, the superblock 104 unlocks the function block 200. For example, the unlock process may indicate that the superblock 104 is authorized to unlock some or all of the functionality provided by the function block 200 by providing a key or other authorization indicator. This step may not only limit the superblock 104 to authorized functionality, but may also insure that other applications cannot access the function block's capabilities. In step 504, the function block 200 is initialized. It is noted that these steps may occur during initialization of the superblock 104 or may occur later, such as when the superblock 104 calls the function block 200 for a particular function. For example, steps 502 and 504 may occur when the superblock application is launched and may not be repeated while the superblock application remains open, may occur each time the superblock application calls the function block API for a service, may occur only for particular services, may occur for defined periods of time (e.g., the function block

200 may lock every half hour), and/or using other parameters. It is understood that steps 502 and 504 may be reversed in some embodiments.

[0049] During initialization or at another time, policies may be applied. For example, a cost policy may require that any available Wi-Fi network is used before a 3G network. A security policy may require that a virtual private network (VPN) be used whenever available. Backgrounding may be selected as an option when available to allow the superblock application to run in the background. Accordingly, the function block 200 may be configured to provide for specific behavior if desired and this behavior may in turn limit or enhance the capabilities of the superblock 104.

[0050] In steps 506 and 508, the superblock 104 may provide login information to the function block 200, and the function block 200 may use this information to access the external services 204. For example, if the function block 200 needs authentication credentials to access the external services 204, steps 506 and 508 may be used to gain access to those external services. In some embodiments, steps 506 and/or 508 may be combined with step 502 and the unlocking of the function block 200 may include logging into whatever external services are authorized and/or available.

[0051] In step 510, the function block 200 and the superblock 104 may perform a capability exchange. More specifically, the function block 200 may determine whether (1) the function block 200 has a particular capability, (2) whether the function block 200 can render that capability, and (3) whether the superblock 104 can render that capability. For example, the function block 200 may determine that the function block 200 has the capability to capture audio and play that captured audio through a speaker.

[0052] Next, the function block 200 may determine whether it can render that capability by checking, for example, to see whether there is an available microphone (mic) input and an available speaker output. If one or both of the mic and speaker are not present, then the function block 200 has the capability to handle the audio, but not the capability to render the audio. The superblock 104 is not involved in this process as it is not needed to render the audio, so the third determination may not be made. Although the superblock 104 is not involved in rendering the audio, it is

understood that the superblock 104 may visually represent the audio, such as by means of an icon, one or more control buttons (e.g., play and stop), and/or other visual representations.

[0053] In another example, the superblock 104 may desire to display video. Again, the function block 200 may determine that the function block 200 has the capability to handle the video. Next, the function block 200 may determine whether it can render that capability by checking, for example, to see whether there is an available screen. If a screen is not present, then the function block 200 has the capability to handle the video, but not the capability to render the video. In this example, the superblock 104 is involved in this process as it is needed to provide a video window to render the video (e.g., the function block 200 may provide the video data to be rendered and the superblock 104 may place that video data in a video window), so the third determination is made.

[0054] By making such determinations, the function block 200 is able to notify the superblock 104 of the available functions. If a function needs the external services 204, lack of a connection may prevent the function block 200 from delivering external services to the superblock 104, but local services may still be provided. It is understood that while a screen, speaker, or other destination (e.g., a sink) may not be available, the function block 200 may handle some services using a secondary sink, such as a memory to which the video or audio is stored for later use.

[0055] With additional reference to FIG. 6A, a flow chart 600 illustrates one embodiment of a process for the capability exchange of step 510 of FIG. 5. In step 602, the function block 200 may be initialized (in embodiments where the capability exchange is performed on initialization) or the function block 200 may receive a request for service (in embodiments wherein the capability exchange occurs when a service is requested).

[0056] In step 604, a determination is made as to whether the function block 200 has the particular capability. For example, whether the function block 200 has the capability to support an audio/video call. If the determination of step 604 is that the function block 200 does not have the particular capability, the method 600 moves to step 606 and the capability is indicated as not being available. It is noted that if a particular capability has not been unlocked, the function block 200 may indicate the capability is not available even if the function block 200 can actually provide

the capability. If the determination of step 604 is that the function block 200 does have the particular capability, the method 600 moves to step 608.

[0057] In step 608, a determination is made as to whether the function block 200 can render the capability as described previously. This step may determine whether the device 100 supports the needed functionality (e.g., has a microphone if audio input is needed or a speaker if audio output is needed). If the determination of step 608 is that the function block 200 cannot render the capability, the method 600 moves to step 606 and the capability is indicated as not being available. If the determination of step 608 is that the function block 200 does have the capability, the method 600 moves to step 610.

[0058] In step 610, a determination is made as to whether an external service 204 is needed to provide the capability. If the determination of step 610 is that an external service 204 is not needed, the method 600 moves to step 614. If the determination of step 610 is that an external service 204 is needed, the method 600 moves to step 612.

[0059] In step 612, a determination is made as to whether a needed external service 204 is available. For example, the external service 204 may be offline (e.g., a server used to provide the service may be non-responsive or the device 100 may have minimal or no network connectivity). This step may also determine whether the superblock application is authorized to access the external service 204 (e.g., whether the external service will allow access by the superblock application). If the determination of step 612 is that the needed external service 204 is not available, the method 600 moves to step 606 and the capability is indicated as not being available. If the determination of step 612 is that the needed external service 204 is available, the method 600 moves to step 614.

[0060] In step 614, a determination is made as to whether the superblock 104 is needed to render the capability as described previously. If the determination of step 614 is that the superblock 104 is not needed to render the capability, the method 600 moves to step 618 and the service is indicated as available (e.g., a capability list is updated and/or the service is provided). If the determination of step 614 is that the superblock 104 is needed to render the capability, the method 600 moves to step 616.

[0061] In step 616, a determination is made as to whether the superblock 104 can render the capability as described previously. If the determination of step 616 is that the superblock 104 cannot render the capability, the method 600 moves to step 606 and the capability is indicated as not being available. If the determination of step 616 is that the superblock 104 does have the capability, the method 600 moves to step 618.

[0062] The superblock 104 and/or function block 200 may use a table or other structure for listing available capabilities. For example, a table may identify a particular service, whether the superblock 104 is authorized to access the service, whether the function block 200 can support the service, whether the function block 200 can render the service, whether the superblock 104 is needed to render the service, and whether the superblock 104 can render the service if needed. It is understood that this information may not be provided in detail in all embodiments, but may be condensed to a simple indication of whether the service is available or not. However, by providing additional levels of detail, more useful indicators may be provided. For example, the superblock application may be able to indicate that a particular service is not authorized or that speakers are not available, rather than simply indicating that audio service is not available.

[0063] Table 1 illustrates one embodiment of a mapping table that may be used to track the capabilities that the function block 200 can provide to the superblock 104 on the device 100. It is understand that the mapping table may vary for the same function block 200, superblock 104, and device 100 in different scenarios, such as whether the device 100 has network access or not when needed for a particular service. For purposes of illustration, the first column lists services supported by the function block 200, the second column identifies whether that service is supported by the device (e.g., whether the function block 200 can render the service), the third column identifies whether the superblock application can render the service (if needed), the fourth column identifies whether the external services 204 support the service (if needed), and the fifth column identifies where the superblock application has authorization rights to that service.

[0064] In some embodiments, the service column may be limited to services that the superblock application is authorized to access. For example, if function block 200 supports instant messaging but the superblock application 104 is not authorized to use this feature, the service may or may not show up in the mapping table depending on the particular implementation. An

additional column may be used to identify whether a needed external service is currently available or the fourth column may be used to show this information.

SERVICE	DEVICE	SUPERBLOCK	EXTERNAL SERVICE	AUTH?
In app video from file	Yes	Yes	N/A	Y
Audio – local file	Yes	N/A	N/A	Y
Audio - streaming	Yes	N/A	Yes	Y
Sharing	Yes	Yes	No	Y
Instant messaging	Yes	No	Yes	Y
Whiteboard	N/A	N/A	N/A	N

Table 1

[0065] For purposes of example, the first service involves playing a video from a file and is supported by both the device 100 and the superblock 104. The external services 204 are not needed and are marked as not applicable. The second service involves playing a local audio file and is supported by the device 100. The superblock 104 and external services 204 are not needed and are marked as not applicable. The third service involves playing a streaming audio file and is supported by the device 100 and the external services 204. The superblock 104 is not needed and is marked as not applicable. The fourth service involves content sharing and is supported by the device 100 and the superblock 104, but not the external services 204. As the external services 204 are needed for sharing in this example, this service is not available to the superblock application. The fifth service involves instant messaging and is supported by the device 100 and the external services 204, but not the superblock 104.

[0066] The sixth service involves a whiteboard, but the superblock 104 is not authorized to access this service, and so the capabilities are not checked. In other embodiments, capabilities for unauthorized services may be checked and, if supported, the superblock application may notify the user that the service is not authorized. In such embodiments, a dialog or other option may appear to allow the user to subscribe or otherwise gain access to the service if allowed.

[0067] With additional reference to FIG. 6B, a diagram 630 provides a visual illustration of the process of FIG. 6A from a source/sink perspective. For the function block 200 to successfully

bridge a source 632 and a sink 634 to provide a service, both the source 632 and the sink 634 must be present and available to the function block 200 as indicated by lines 636 and 638, respectively. The source 632 may be the superblock 104, the external services 204, and/or a component of the device 100 such as a wireless interface, a microphone, a camera, and/or any other component capable of providing input to the function block 200. The sink 632 may be the superblock 104, the external services 204, and/or a component of the device 100 such as a wireless interface, a speaker, a display screen, and/or any other component capable of receiving output from the function block 200. In some cases, the lack of availability of a sink may result in the use of a dummy sink (e.g., writing audio to memory when there is no available speaker).

[0068] It is understood that the source/sink model provided by the source 632 and sink 634 may be viewed as generic. For example, at the device level, the source 632 and sink 634 operate to read/send data. At the network interface level, each side acts as both source/sink because network interfaces allow for read/write simultaneously in most modern devices. In contrast, a microphone is a source and a speaker is a sink. A speaker may serve as a sink for multiple data in some cases, such as if multiple audio sources are mixed into the single speaker. In this scenario, the source for rendering audio data may be a microphone, network audio encoded data, a music file on the device, and/or other sources. The source/sink model can also be considered for service level consumer/producer models. For example, the function block 200 may be viewed as a source for presenting client side capabilities to a server and at the same time may be viewed as a sink for rendering capabilities presented by the server.

[0069] With additional reference to FIG. 6C, a diagram 640 provides a more detailed illustration of FIG. 6B. Source 642 is a microphone and the function block 200 is to send the audio captured from the microphone to sink 644 representing an external service 204 (e.g., as outbound audio for a telephone call). For the function block 200 to successfully bridge the source 642 and the sink 644, both the source 642 and the sink 644 must be present and available to the function block 200 as indicated by lines 646 and 648, respectively, and the source 642, sink 644, and function block 200 must be capable of handling the service. If the function block 200 is thought of as providing services via a series of switches, lines 646 and 648 must both be closed to connect the source 642 and sink 644. Accordingly, the process of FIG. 6A may be executed to ensure that

the function block 200 can render the audio input and that the connection to the external service is valid (e.g., that the switches can be closed).

[0070] In the present example, one or more additional flow layers represented by line 650 may also present. For example, line 650 may represent whether an audio hold exists. If the audio has been placed on hold, the function block 200 will notify the audio pipeline to stop (e.g., the switch will be opened). The audio capture may continue, but it will not be rendered (e.g., sent to the external services represented by sink 644) as the circuit formed by the function block 200 will no longer be complete.

[0071] Referring again to FIG. 5, in step 512, the function block 200 may shut down if operating under the static model or may enter a wait mode if operating under the dynamic model. In step 514, the function block 200 may provide one or more services to the superblock 104 if requested by the superblock 104 or an external service 204. It is understood that steps 512 and 514 may repeat any number of times while the superblock application is running. If no services are requested, step 514 would not be executed.

[0072] In steps 516 and 518, the superblock 104 may finalize any service requests and shutdown the function block 200. For example, if the superblock application is closing, the superblock 104 may use one or more API calls to the function block 200 to notify the function block 200 that the function block 200 should close any open ports (e.g., with an external service 204) and close down any running processes.

[0073] Referring to FIG. 7, a sequence diagram 700 illustrates one embodiment of a process that may be executed in order to provide a service by the function block 200 in response to a service request by the superblock 104. This present example may operate under either the static model or the dynamic model. The process begins with step 512 of FIG. 5, which is not described in detail in the present example.

[0074] In step 702, the superblock 104 issues a request for a service to the function block 200 using an API call or another suitable method. In step 704, the function block 200 obtains any needed support from the external services 204. In step 706, the function block 200 provides the service to the superblock 104. In step 708, the function block 200 may repeat step 512 and either

shut down or enter the wait mode depending on whether the function block 200 is operating under the static model or the dynamic model.

[0075] Referring to FIG. 8, a flow chart 800 illustrates one embodiment of a process for accessing an external service 204, such as may occur with respect to step 704 of FIG. 7. In step 802, the function block 200 receives a request from the superblock 104 (as occurs in step 702 of FIG. 7). In step 804, a determination is made as to whether the function block 200 needs to use an external service to handle the request. If the determination of step 804 indicates that no external service is needed, the method 800 moves to step 806. In step 806, the service is provided by the function block 200. If the determination of step 804 indicates that an external service is needed, the method 800 moves to step 808.

[0076] In step 808, a determination is made as to whether the external service is available. If the determination of step 808 indicates that the external service is available, the method 800 moves to step 810, where any parameters needed for communications and/or service provision may be negotiated between the function block 200 and external service 204. Such parameters may include both signaling and media parameters such as bandwidth, codecs, and/or similar information, and would typically depend on the particular service.

[0077] The method 800 then moves to step 806 where the service is provided by the function block 200. If the determination of step 808 indicates that the external service is not available, the method 800 moves to step 812. In step 812, the function block 200 may indicate that the service is not available. For example, the function block 200 may indicate that the server is not responding or that there is no network connectivity for the device 100.

[0078] Referring to FIG. 9, a sequence diagram 900 illustrates one embodiment of a process that may be executed in order to provide a service by the function block 200 in response to a notification from an external service 204. This present example may operate under the dynamic model as the function block 200 is in listening mode to receive notifications from the external services 204. The process begins with step 512 of FIG. 5, which is not described in detail in the present example.

[0079] In step 902, an external service 204 issues a notification to the function block 200 that the external service 204 has something for the superblock 104. In step 904, the function block 200 may pass the notification to the superblock 104. It is understood that step 904 may not actually pass on the notification, but that the notification of step 902 may trigger functionality within the function block 200 that serves to notify the superblock 104. For example, if the notification of step 902 is about an incoming phone call, the function block 200 may receive the notification, initiate a phone response display (e.g., a display with options for accepting or rejecting the call), and provide the information to the superblock 104 in that manner. In another example, the notification of step 902 may be a presence change (e.g., a user changes status from offline to online), and the function block 200 may update a presence indicator within the superblock application's display. In still another example, the function block 200 may use an event system and send event notifications to the superblock 104. Accordingly, some notifications may require action on the part of a user of the superblock application, while other notifications may not.

[0080] In the present example, the notification requires a response and the superblock 104 responds in step 906 by requesting and/or accepting the service (e.g., a phone call). In step 908, the function block 200 handles services between the superblock 104 and the external service 204. In other words, the function block 200 serves as an interface between the external service 204 and the superblock 104. For example, the function block 200 may bridge the phone call, handle call waiting and other call features, and otherwise provide support for the superblock application. In step 910, the function block 200 may enter wait mode after the services have been provided.

[0081] Referring to FIG. 10, a flow chart 1000 illustrates one embodiment of a process for execution by the function block 200 with respect to an external service 204, such as may occur with respect to FIG. 9. In step 1002, the function block 200 receives a notification from the external service 204. In step 1004, a determination is made as to whether the function block 200 needs instructions from the superblock 104. If the determination of step 1004 indicates that instructions are needed, the method 1000 moves to step 1006. In step 1006, the function block 200 indicates to the superblock 104 that service is requested. The method 1000 then moves to step 1008.

[0082] In step 1008, a determination is made as to whether the service request has been approved by the superblock 104. If the determination of step 1008 indicates that the request has not been approved, the method 1000 moves to step 1010, where the notification may be rejected, ignored, or otherwise handled. It is understood that the actual response of the function block 200 in step 1010 may vary depending on the notification type. For example, the function block 200 may indicate to the external service 204 that the call is rejected. If the determination of step 1008 indicates that the request has been approved, the method 1000 moves to step 1012, where the function block 200 may handle the service provision.

[0083] Returning to step 1004, if the determination of step 1004 indicates that instructions are not needed, the method 1000 moves to step 1014. In step 1014, a determination is made as to whether the superblock 104 is to be updated based on the notification. If the determination of step 1014 indicates that the superblock 104 is not to be updated, the method 1000 moves to step 1010, where the notification may be rejected, ignored, or otherwise handled. If the determination of step 1014 indicates that the superblock 104 is to be updated, the method 1000 moves to step 1016, where the update may be performed. For example, another user's presence status may be updated from online to offline or vice versa.

[0084] Referring again to FIG. 1, embodiments of the device 100 include cellular telephones (including smart phones), personal digital assistants (PDAs), netbooks, tablets, laptops, desktops, workstations, telepresence consoles, and any other computing device that can communicate with another computing device using a wireless and/or wireline communication link. Such communications may be direct (e.g., via a peer-to-peer network, an ad hoc network, or using a direct connection), indirect, such as through a server or other proxy (e.g., in a client-server model), or may use a combination of direct and indirect communications. Although not shown, in other embodiments, the device 100 may be an application specific integrated circuit (ASIC), a processor, or another device within which the function block 200 may be embedded. In some embodiments, external access may not be needed. Accordingly, the function block 200 may be implemented in many different ways and in many different types of systems, and may be customized as needed to operate within a particular environment.

[0085] Referring to FIG. 11, one embodiment of a system 1100 is illustrated. The system 1100 is one possible example of a device such as the device 100 of FIG. 1. The system 1100 may include a controller (e.g., a central processing unit ("CPU")) 1102, a memory unit 1104, an input/output ("I/O") device 1106, and a network interface 1108. The components 1102, 1104, 1106, and 1108 are interconnected by a transport system (e.g., a bus) 1110. A power supply (PS) 1112 may provide power to components of the computer system 1100, such as the CPU 1102 and memory unit 1104, via a power system 1114 (which is illustrated with the transport system 1110 but may be different). It is understood that the system 1100 may be differently configured and that each of the listed components may actually represent several different components. For example, the CPU 1102 may actually represent a multi-processor or a distributed processing system; the memory unit 1104 may include different levels of cache memory, main memory, hard disks, and remote storage locations; the I/O device 1106 may include monitors, keyboards, and the like; and the network interface 1108 may include one or more network cards providing one or more wired and/or wireless connections to a network 1116. Therefore, a wide range of flexibility is anticipated in the configuration of the computer system 1100.

[0086] The system 1100 may use any operating system (or multiple operating systems), including various versions of operating systems provided by Microsoft (such as WINDOWS), Apple (such as Mac OS X), UNIX, and LINUX, and may include operating systems specifically developed for handheld devices, personal computers, servers, and embedded devices depending on the use of the system 1100. The operating system, as well as other instructions (e.g., for the superblock 104 and function block 1100), may be stored in the memory unit 1104 and executed by the processor 1102. For example, if the system 1100 is the device 100, the memory unit 1104 may include instructions for performing some or all of the message sequences and methods described herein.

[0087] Referring to FIG. 12, in one embodiment, the function block 200 may contain functionality similar to that of an endpoint as described in detail in U.S. Patent No. 7,656,870, filed on March 15, 2005, and entitled SYSTEM AND METHOD FOR PEER-TO-PEER HYBRID COMMUNICATIONS and hereby incorporated by reference in its entirety. In such an embodiment, the graphical user interface (GUI) of the endpoint may be replaced with the API 202 of FIG. 2, and some functionality may be removed if not needed for a particular implementation

of the function block 200. Other functionality that is not necessarily in the described endpoint, such as mobile device management (MDM) functionality, may be included in the function block 200. Accordingly, the basic functionality of the described endpoint may exist as logic embodied in the instruction set of the function block 200.

[0088] For purposes of example, the function block 200 may be accessed by the API 202 and may communicate with an operating system 1204 of the device 100 of FIG. 1. The API 202 provides access to the capabilities of the function block 200 for the superblock 104, while the operating system 1204 provides underlying functionality, as is known to those of skill in the art. Although shown as separate from the function block 200 for purposes of illustration, it is understood that the API 202 may be part of the function block 200 in some embodiments.

[0089] The function block 200 may include multiple components and layers that support the functionality required to perform the operations requested by the superblock 104. For example, the function block 200 may include a softswitch 1206, a management layer 1208, an encryption/decryption module 1210, a feature layer 1212, a protocol layer 1214, a speech-to-text engine 1216, a text-to-speech engine 1218, a language conversion engine 1220, an out-of-network connectivity module 1222, a connection from other networks module 1224, a p-commerce (e.g., peer commerce) engine 1226 that includes a p-commerce agent and a p-commerce broker, and a cellular network interface module 1228.

[0090] Each of these components/layers may be further divided into multiple modules. For example, the softswitch 1206 may include a call control module, an instant messaging (IM) control module, a resource control module, a CALEA (Communications Assistance to Law Enforcement Act) agent, a media control module, a peer control module, a signaling agent, a fax control module, and a routing module.

[0091] The management layer 1208 may include modules for presence (i.e., network presence), peer management (detecting peers and notifying peers of being online), firewall management (navigation and management), media management, resource management, profile management, authentication, roaming, fax management, and media playback/recording management.

[0092] The encryption/decryption module 1210 may provide encryption for outgoing packets and decryption for incoming packets. In the present example, the encryption/decryption module 1210 provides application level encryption at the source, rather than at the network. However, it is understood that the encryption/decryption module 1210 may provide encryption at the network in some embodiments.

[0093] The feature layer 1212 may provide support for various features such as voice, video, IM, data, voicemail, file transfer, file sharing, class 5 features, short message service (SMS), interactive voice response (IVR), faxes, and other resources. The protocol layer 1214 may include protocols supported by the function block 200, including SIP, HTTP, HTTPS, STUN, RTP, SRTP, and ICMP. It is understood that these are examples only, and that fewer or more protocols may be supported.

[0094] The speech-to-text engine 1216 converts speech received by the function block 200 (e.g., via a microphone or network) into text, the text-to-speech engine 1218 converts text received by the function block 200 into speech (e.g., for output via a speaker), and the language conversion engine 1220 may be configured to convert inbound or outbound information (text or speech) from one language to another language. The out-of-network connectivity module 1222 may be used to handle connections between the function block 200 and the external services 204, and the connection from other networks module 1224 handles incoming connection attempts from the external services 204. The cellular network interface module 1228 may be used to interact with a wireless network.

[0095] While the preceding description shows and describes one or more embodiments, it will be understood by those skilled in the art that various changes in form and detail may be made therein without departing from the spirit and scope of the present disclosure. For example, various steps illustrated within a particular flow chart or sequence diagram may be combined or further divided. In addition, steps described in one flow chart or diagram may be incorporated into another flow chart or diagram. Furthermore, the described functionality may be provided by hardware and/or software, and may be distributed or combined into a single platform. Additionally, functionality described in a particular example may be achieved in a manner different than that

illustrated, but is still encompassed within the present disclosure. Therefore, the claims should be interpreted in a broad manner, consistent with the present disclosure.

WHAT IS CLAIMED IS:

1. A computer program product in a non-transitory computer readable medium for use in a data processing system that comprises a processor coupled to a network interface, the computer program product holding computer program instructions that comprise a function block, the function block having audio/video (A/V) call functionality, the function block operative when executed by the processor to:

receive from a superblock application a request for an audio/video (A/V) service;

determine that the superblock application is authorized to access the A/V service functionality;

determine that the A/V service requires access to a resource that is external to the data processing system;

establish the A/V service between the superblock application and the resource via the network interface, wherein establishing is not otherwise supported by the superblock application;

provide video output for the A/V service to a video window within a display window associated with the superblock application, the video window displayable simultaneously with the display window of the superblock application; and

provide audio for the A/V service.

ABSTRACT

An improved system and method are disclosed for improving functionality in software applications. In one example, the method includes a computing entity having a network interface, a processor, and a memory configured to store a plurality of instructions. The instructions include instructions for a superblock application having instructions for a function block included therein. The function block is configured to provide functions that are accessible to the superblock application via an application programming interface (API). The functions are provided within the superblock application itself and are accessible within the superblock application without switching context to another application on the computing entity.