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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/099,175	01/19/2023	Sivakumar CHATURVEDI	DAMA60-35686	3720
25883	7590	03/12/2024		
MUNCK WILSON MANDALA L.L.P			EXAMINER	
P.O. Drawer 800889			DORAIS, CRAIG C	
DALLAS, TX 75380				
			ART UNIT	PAPER NUMBER
			2194	
			NOTIFICATION DATE	DELIVERY MODE
			03/12/2024	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
cofficeaction@apccoll.com

APPLICATION NO.	ISSUE DATE	PATENT NO.
18/099,175	12-Mar-2024	11930362

MUNCK WILSON MANDALA L.L.P
P.O. Drawer 800889
DALLAS, TX 75380

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.
18/099,175	03/12/2024	11930362	DAMA60-35686	3720

25883 7590 02/21/2024
MUNCK WILSON MANDALA L.L.P.
P.O. Drawer 800889
DALLAS, TX 75380

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.

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 12/18/2023
MUNCK WILSON MANDALA L.L.P.
P.O. Drawer 800889
DALLAS, TX 75380

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.
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18/099,175 01/19/2023 Sivakumar CHATURVEDI DAMA60-35686 3720

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	\$480	\$0.00	\$0.00	\$480	03/18/2024

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/ATA/122 or PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/ALA/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, 1 _____
- (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. 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
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

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.

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.

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, Reg. #74472/

Date February 5, 2024

Typed or printed name Keith D. Harden

Registration No. 74,472



UNITED STATES
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P.O. Box 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #

18/099,175

RECEIPT DATE / TIME

02/05/2024 08:15:56 AM Z ET

ATTORNEY DOCKET #

DAMA60-35686

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 # 3720

FILED BY Keith Harden

PATENT CENTER # 64201971

FILING DATE 01/19/2023

CUSTOMER # 25883

FIRST NAMED
INVENTOR Sivakumar CHATURVEDI

CORRESPONDENCE
ADDRESS -

AUTHORIZED BY -

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
DAM35686 Issue Fee Trans.pdf	1	Issue Fee Payment (PTO-85B)	713 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
DAM35686 Issue Fee Trans.pdf	562B0BEE3EC8A9D772686AFD23AE62D5B7DEC726B6F9FF8A 78862CFF00724B56F206D44219B9FC1C3636E11F6D4359B80B A782066AA4C44F86F217080BE5A2A1

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.



ELECTRONIC PAYMENT RECEIPT

APPLICATION #

18/099,175

RECEIPT DATE / TIME

02/05/2024 08:15:56 AM Z ET

ATTORNEY DOCKET #

DAMA60-35686

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 # 3720

FILED BY Keith Harden

PATENT CENTER # 64201971

AUTHORIZED BY -

CUSTOMER # 25883

FILING DATE 01/19/2023

CORRESPONDENCE
ADDRESS -

FIRST NAMED
INVENTOR Sivakumar CHATURVEDI

Payment Information

PAYMENT METHOD

DA / 500208

PAYMENT TRANSACTION ID

E202425916218702

PAYMENT AUTHORIZED BY

Keith Harden

FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
2501	UTILITY ISSUE FEE	480.00	1	480.00
TOTAL AMOUNT:				\$480.00

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.

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NOTICE OF ALLOWANCE AND FEE(S) DUE

25883 7590 12/18/2023
MUNCK WILSON MANDALA L.L.P.
P.O. Drawer 800889
DALLAS, TX 75380

EXAMINER

DORAIS, CRAIG C

ART UNIT

PAPER NUMBER

2194

DATE MAILED: 12/18/2023

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/099,175	01/19/2023	Sivakumar CHATURVEDI	DAMA60-35686	3720

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	\$480	\$0.00	\$0.00	\$480	03/18/2024

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/Patent/MaintenanceFees.

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.

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Commissioner for Patents
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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.**

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25883 7590 12/18/2023
MUNCK WILSON MANDALA L.L.P.
P.O. Drawer 800889
DALLAS, TX 75380

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.
-----------------	-------------	----------------------	---------------------	------------------

18/099,175 01/19/2023 Sivakumar CHATURVEDI DAMA60-35686 3720

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	\$480	\$0.00	\$0.00	\$480	03/18/2024

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
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

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.

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.

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. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/099,175	01/19/2023	Sivakumar CHATURVEDI	DAMA60-35686	3720
25883	7590	12/18/2023	EXAMINER	
MUNCK WILSON MANDALA L.L.P.			DORAIS, CRAIG C	
P.O. Drawer 800889			ART UNIT	
DALLAS, TX 75380			PAPER NUMBER	
			2194	
DATE MAILED: 12/18/2023				

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.

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. 18/099,175	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 communications received 11/21/2023.
☐ 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 2-76. 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. <u>20231208</u> .	5. ☐ Examiner's Amendment/Comment 6. ☒ Examiner's Statement of Reasons for Allowance 7. ☐ Other _____.
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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 11/21/2023.
3. Claims 2 – 76 are allowed.

Reasons for Allowance

4. The following is an examiner's statement of reasons for allowance: Independent claim 2, 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 2:

creating for storage on a server, a superblock application configured for use by a computing device of the first user and a superblock application configured for use by a computing device of the second user, wherein each of the superblock applications has a function block compiled therein, wherein each respective superblock application communicates with its respective function block using application programming interface (API) calls;

receiving, by the superblock application on the computing device of the first user, a request to initiate a real-time communication session with the second user.

5. The following is an examiner's statement of reasons for allowance: Independent claim 30, 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 30:

obtaining a function block from a third party, wherein the function block is adapted to be compiled with the superblock application and is adapted to interact with one or more servers connected over the internet to provide the real-time communication session, and wherein the function block is adapted to interact with the superblock application through one or more application programming interface (API) calls by the superblock application; configuring the superblock application to interact with the function block using the one or more API calls.

6. The following is an examiner's statement of reasons for allowance: Independent claim 76, 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 76:

the superblock application adapted to interact with a function block through one or more application programming interface (API) calls in order to access the real-time communication session provided by the function block; and

the function block compiled into the superblock application, wherein the function block is adapted to be compiled with the superblock application and is adapted to interact with the one or 10 more servers connected over the internet to provide the real-time communication session within the superblock application.

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-S 6:00 - 10:00am.

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

<i>Examiner-Initiated Interview Summary</i>	Application No. 18/099,175	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 HARDEN	Attorney of Record	

Date of Interview: 04 December 2023

Issues Discussed:

Non-statutory Double Patenting

Discussed the filing of terminal disclaimers from parent cases to place the application in a condition for allowance. This was agreed to and the TD was filed and approved on 12/07/2023

/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.

Search Notes 	Application/Control No. 18/099,175	Applicant(s)/Patent Under Reexamination CHATURVEDI et al.
	Examiner CRAIG C DORAIS	Art Unit 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 keyword and CPC searches. New Scholar searches. See attached.	05/17/2023	CD
Refreshed previous search. New keyword and keyword and CPC searches. New Scholar searches. See attached.	12/04/2023	CD

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	Keyword search as per MPEP 1302.08. See attached.	12/07/2023	CD

/CRAIG C DORAIS/ Primary Examiner, Art Unit 2194	
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Issue Classification 	Application/Control No. 18/099,175	Applicant(s)/Patent Under Reexamination CHATURVEDI et al.
	Examiner CRAIG C DORAIS	Art Unit 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)	75	
/CRAIG C DORAIS/ Primary Examiner, Art Unit 2194	08 December 2023	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	10

Issue Classification 	Application/Control No. 18/099,175	Applicant(s)/Patent Under Reexamination CHATURVEDI et al.
	Examiner CRAIG C DORAIS	Art Unit 2194

INTERNATIONAL CLASSIFICATION			
CLAIMED			
G06F	/	9	/ 54
NON-CLAIMED			
/		/	

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	75	
/CRAIG C DORAIS/ Primary Examiner, Art Unit 2194	08 December 2023	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	10

U.S. Patent and Trademark Office

Part of Paper No.: 20231208

Issue Classification 	Application/Control No. 18/099,175	Applicant(s)/Patent Under Reexamination CHATURVEDI et al.
	Examiner CRAIG C DORAIS	Art Unit 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	11	20	21	30	31	40	41	50	51	60	61	70	71
1	2	11	12	21	22	31	32	41	42	51	52	61	62	71	72
2	3	12	13	22	23	32	33	42	43	52	53	62	63	72	73
3	4	13	14	23	24	33	34	43	44	53	54	63	64	73	74
4	5	14	15	24	25	34	35	44	45	54	55	64	65	74	75
5	6	15	16	25	26	35	36	45	46	55	56	65	66	75	76
6	7	16	17	26	27	36	37	46	47	56	57	66	67		
7	8	17	18	27	28	37	38	47	48	57	58	67	68		
8	9	18	19	28	29	38	39	48	49	58	59	68	69		
9	10	19	20	29	30	39	40	49	50	59	60	69	70		

NONE (Assistant Examiner) _____ (Date) _____ /CRAIG C DORAIS/ Primary Examiner, Art Unit 2194 (Primary Examiner) _____ (Date) _____	Total Claims Allowed: 75	
	O.G. Print Claim(s) 1	O.G. Print Figure 10

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Part of Paper No.: 20231208

Doc code: IDS

PTO/SB/08a (01-22)

Doc description: Information Disclosure Statement (IDS) Filed

Approved for use through 05/31/2024. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18099175	
	Filing Date		2023-01-19	
	First Named Inventor		Sivakumar CHATURVEDI	
	Art Unit		2194	
	Examiner Name		Craig C. DORAIS	
	Attorney Docket Number		DAMA60-35686	

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	First Named Inventor	Sivakumar CHATURVEDI	
	Art Unit	2194	
	Examiner Name	Craig C. DORAIS	
	Attorney Docket Number	DAMA60-35686	

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/C.C.D/	10	Bulk, Frank. "Final project: skype."; cs.columbia.edu; 5 May 2004; 23 pages.	☐
/C.C.D/	11	Cerulean Studios: "Trillian (software)"; Wikipedia; 01 July 2000; 11 pages; https://en.wikipedia.org/w/index.php?title=Trillian_(software)&oldid=1157096199 .	☐

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	Art Unit	2194
	Examiner Name	Craig C. DORAIS
	Attorney Docket Number	DAMA60-35686

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	Attorney Docket Number	DAMA60-35686

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/C.C.D/	33	Voiptalk Internet Telephony Service: "SMS Callback"; (2003-2023); 1 page; https://www.voiptalk.org/products/sms-callback .	☐

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	Art Unit	2194
	Examiner Name	Craig C. DORAIS
	Attorney Docket Number	DAMA60-35686

/C.C.D/	34	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.	☐
/C.C.D/	35	YouTube API Overview; 19 February 2009, https://www.youtube.com/watch?v=yILzyHk54Z0.	☐
/C.C.D/	36	Best Video Conferencing Software, 26 November 2023, 31 pages, https://www.g2.com/categories/video-conferencing.	☐

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	/CRAIG C DORAIS/	Date Considered	12/03/2023
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	18099175
	Filing Date	2023-01-19
	First Named Inventor	Sivakumar CHATURVEDI
	Art Unit	2194
	Examiner Name	Craig C. DORAIS
	Attorney Docket Number	DAMA60-35686

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).

OR

☐ 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)	2023-11-30
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.**

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. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

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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 Cooperation Treaty.
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TERMINAL DISCLAIMER TO OBVIATE A PROVISIONAL DOUBLE PATENTING REJECTION OVER A PENDING "REFERENCE" APPLICATION

APPLICATION #
18099175

FILING DATE
01/19/2023

FIRST NAMED INVENTOR
Sivakumar CHATURVEDI

ATTORNEY DOCKET #
DAMA60-35686

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
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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.

In making the above disclaimer, the owner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term of any patent granted on said reference application, "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," in the event that any such patent granted on the pending reference application: expires for failure to pay a maintenance fee, 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 shortened by any terminal disclaimer filed prior to its grant.

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 prior patent number(s)

Patent #
9027032
9270744
9491233
9578092
10387220
10863357
11576046

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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- expires for failure to pay a maintenance fee;
- 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:

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 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 D. Harden, Reg.
#74472/

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.



ELECTRONIC PAYMENT RECEIPT

APPLICATION #
18/099,175

RECEIPT DATE / TIME
12/07/2023 11:31:31 AM Z ET

ATTORNEY DOCKET #
DAMA60-35686

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 # 3720

FILED BY Keith Harden

PATENT CENTER # 63524147

AUTHORIZED BY -

CUSTOMER # 25883

FILING DATE 01/19/2023

CORRESPONDENCE
ADDRESS -

FIRST NAMED
INVENTOR Sivakumar CHATURVEDI

Payment Information

PAYMENT METHOD
DA / 500208

PAYMENT TRANSACTION ID
E2023S7B31557361

PAYMENT AUTHORIZED BY
Keith Harden

FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
2814	STATUTORY DISCLAIMER, INCLUDING TERMINAL DISCLAIMER	170.00	1	170.00
TOTAL AMOUNT:				\$170.00

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APPROVAL LETTER

APPLICATION #
18/099,175

FILING DATE
01/19/2023

APPLICANT/PATENT UNDER REEXAMINATION
Sivakumar CHATURVEDI

Title of Invention

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

Electronic terminal disclaimer filed on 12/07/2023

☒ Approved

This patent is subject to a Terminal Disclaimer

Approved / Disapproved by: Electronic Terminal Disclaimer automatically approved



ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
18/099,175

RECEIPT DATE / TIME
12/07/2023 11:31:31 AM Z ET

ATTORNEY DOCKET #
DAMA60-35686

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FILING DATE 01/19/2023

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)	51 KB
graniLetter.pdf	1	Terminal Disclaimer-Electronic- Approved	19 KB

Digest

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petition-request.pdf	C79607F3CA094B87382D86B827581157CE64F2DBAC8374D23 B864D38BFD2810A28198A622393ABA78C2B11D55708C6272B

8D19D9A03294FB81FC7F78C8A393BA

grantLetter.pdf

63274DEDE4BBDC8254D0F248E673887DCC6379EEDDEC46FD
2D29541EBDBC966183B38FA025AF304F54934FC541121B8599
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18099175	
	Filing Date		2023-01-19	
	First Named Inventor	Sivakumar CHATURVEDI		
	Art Unit	2194		
	Examiner Name	Craig C. DORAIS		
	Attorney Docket Number	DAMA60-35686		

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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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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"; 4 pages; 2000-2013.	☐
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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 .	☐

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	Examiner Name	Craig C. DORAIS
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	13	Craig Buckler: "Dropbox Launches a New Development API"; 24 October 2011, 5 pages, https://www.sitepoint.com/dropbox-launches-a-new-development-api/ .	☐
	14	Cristiano Severini: "instagram-ios-sdk", (2012), 2 pages, https://cocoapods.org/pods/instagram-ios-sdk .	☐
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	21	Liang, Jian, Rakesh Kumar, and Keith W. Ross. "Understanding kazaa." (2004); 7 pages.	☐
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	23	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 .	☐
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	30	Twilio Video Overview, (2023), https://www.twilio.com/docs/video/overview .	☐
	31	Twilio: SDKS; 12 August 2016, 2 pages, https://web.archive.org/web/20160812043450/https://www.twilio.com/docs/libraries .	☐
	32	University of Helsinki; Kangasharju; "Peer-to-Peer Networks, Chapter 2: Current Peer-to-Peer Systems"; 14 January 2008, 62 pages; https://www.cs.helsinki.fi/u/jakangas/Teaching/PrintOuts/08s-P2P-01-Introduction.pdf .	☐
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	Examiner Name	Craig C. DORAIS
Attorney Docket Number		DAMA60-35686

	34	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.	☐
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	36	Best Video Conferencing Software, 26 November 2023, 31 pages, https://www.g2.com/categories/video-conferencing .	☐

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EXAMINER SIGNATURE

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	First Named Inventor	Sivakumar CHATURVEDI
	Art Unit	2194
	Examiner Name	Craig C. DORAIS
	Attorney Docket Number	DAMA60-35686

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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☐ 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)	2023-11-30
Name/Print	Keith D. Harden	Registration Number	74472

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #
18/099,175

RECEIPT DATE / TIME
11/30/2023 07:11:07 PM Z ET

ATTORNEY DOCKET #
DAMA60-35686

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 # 3720

FILED BY Keith Harden

PATENT CENTER # 63447949

AUTHORIZED BY -

CUSTOMER # 25883

FILING DATE 01/19/2023

CORRESPONDENCE
ADDRESS -

FIRST NAMED
INVENTOR Sivakumar CHATURVEDI

Payment Information

PAYMENT METHOD
DA / 500208

PAYMENT TRANSACTION ID
E2023ATJ11389030

PAYMENT AUTHORIZED BY
Keith Harden

FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
2806	SUBMISSION OF AN INFORMATION DISCLOSURE STATEMENT	104.00	1	104.00
TOTAL AMOUNT:				\$104.00

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CUSTOMER # 25883

FIRST NAMED INVENTOR Sivakumar CHATURVEDI

CORRESPONDENCE ADDRESS -

AUTHORIZED BY -

Documents

TOTAL DOCUMENTS: 37

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
DAM35686 SUPP IDS.pdf	7	Information Disclosure Statement (IDS) Form (SB08)	1255 KB
IDS_NPL_A Brief History of Windows SDKs ... Games for Windows and the DirectX SDK blog.pdf	4	Non Patent Literature	157 KB
IDS_NPL_Bopup IM Client SDK - Instant Messaging...pdf	4	Non Patent Literature	241 KB
IDS_NPL_An Analysis of the Skype Peer-to-Peer Internet Telephony Protocol.pdf	11	Non Patent Literature	323 KB

IDS_NPL_Best Video Conferencing Software in 2023 G2.pdf	31	Non Patent Literature	2889 KB
IDS_NPL_SDKs - Twilio.pdf	2	Non Patent Literature	149 KB
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IDS_NPL_Peer-to-Peer and Grid Computing2.pdf	62	Non Patent Literature	15421 KB
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Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
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Windows SDKs __ Games for Windows and the DirectX SDK blog.pdf	D7FA9C16C63842C54B1A4BAFC1887899B33D953CF660D642F23DE950BE4EA9CC77F4EE2FF009219F
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CONFIRMATION # 3720

FILED BY Keith Harden

PATENT CENTER # 63346386

AUTHORIZED BY -

CUSTOMER # 25883

FILING DATE 01/19/2023

CORRESPONDENCE
ADDRESS -

FIRST NAMED
INVENTOR Sivakumar CHATURVEDI

Payment Information

PAYMENT METHOD
DA / 500208

PAYMENT TRANSACTION ID
E2023AKH21285312

PAYMENT AUTHORIZED BY
Keith Harden

FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
2253	EXTENSION FOR RESPONSE WITHIN THIRD MONTH -	592.00	1	592.00
2202	EACH CLAIM IN EXCESS OF 20	40.00	55	2200.00
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PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)		Docket Number (Optional) DAMA60-35686																																		
Application Number 18/099,175	Filed January 19, 2023																																			
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): <table style="width: 100%; border-collapse: collapse;"><thead><tr><th></th><th style="text-align: center;"><u>Fee</u></th><th style="text-align: center;"><u>Small Entity Fee</u></th><th style="text-align: center;"><u>Micro Entity Fee</u></th><th></th></tr></thead><tbody><tr><td>☐ One month (37 CFR 1.17(a)(1))</td><td style="text-align: center;">\$220</td><td style="text-align: center;">\$88</td><td style="text-align: center;">\$44</td><td>\$ _____</td></tr><tr><td>☐ Two months (37 CFR 1.17(a)(2))</td><td style="text-align: center;">\$640</td><td style="text-align: center;">\$256</td><td style="text-align: center;">\$128</td><td>\$ _____</td></tr><tr><td>☒ Three months (37 CFR 1.17(a)(3))</td><td style="text-align: center;">\$1,480</td><td style="text-align: center;">\$592</td><td style="text-align: center;">\$296</td><td>\$ <u>592</u></td></tr><tr><td>☐ Four months (37 CFR 1.17(a)(4))</td><td style="text-align: center;">\$2,320</td><td style="text-align: center;">\$928</td><td style="text-align: center;">\$464</td><td>\$ _____</td></tr><tr><td>☐ Five months (37 CFR 1.17(a)(5))</td><td style="text-align: center;">\$3,160</td><td style="text-align: center;">\$1,264</td><td style="text-align: center;">\$632</td><td>\$ _____</td></tr></tbody></table> ☒ 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 <u>50-0208</u>. ☒ 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 <u>74,472</u> ☐ attorney or agent acting under 37 CFR 1.34. Registration number _____ <table style="width: 100%; border-collapse: collapse;"><tr><td style="width: 50%; vertical-align: bottom;"><u>/Keith D. Harden, Reg. #74472/</u> Signature</td><td style="width: 50%; vertical-align: bottom;"><u>November 21, 2023</u> Date</td></tr><tr><td style="vertical-align: bottom;"><u>Keith D. Harden</u> Typed or printed name</td><td style="vertical-align: bottom;"><u>972-628-3600</u> Telephone Number</td></tr></table> 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*.				<u>Fee</u>	<u>Small Entity Fee</u>	<u>Micro Entity Fee</u>		☐ One month (37 CFR 1.17(a)(1))	\$220	\$88	\$44	\$ _____	☐ Two months (37 CFR 1.17(a)(2))	\$640	\$256	\$128	\$ _____	☒ Three months (37 CFR 1.17(a)(3))	\$1,480	\$592	\$296	\$ <u>592</u>	☐ Four months (37 CFR 1.17(a)(4))	\$2,320	\$928	\$464	\$ _____	☐ Five months (37 CFR 1.17(a)(5))	\$3,160	\$1,264	\$632	\$ _____	<u>/Keith D. Harden, Reg. #74472/</u> Signature	<u>November 21, 2023</u> Date	<u>Keith D. Harden</u> Typed or printed name	<u>972-628-3600</u> Telephone Number
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☒ * Total of ONE forms are submitted.

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UNITED STATES
PATENT AND TRADEMARK OFFICE

Page 1 of 2

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
18/099,175

RECEIPT DATE / TIME
11/21/2023 05:20:49 PM Z ET

ATTORNEY DOCKET #
DAMA60-35686

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 # 3720

FILED BY Keith Harden

PATENT CENTER # 63346386

FILING DATE 01/19/2023

CUSTOMER # 25883

FIRST NAMED INVENTOR Sivakumar CHATURVEDI

CORRESPONDENCE ADDRESS -

AUTHORIZED BY -

Documents

TOTAL DOCUMENTS: 4

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
DAM35686 AMD.pdf		13	-	117 KB
DAM35686 AMD-A....pdf	(1-1)	1	Amendment/Request for Reconsideration-After Non- Final Rejection	77 KB
DAM35686 AMD-CLM.pdf	(2-11)	10	Claims	108 KB
DAM35686 AMD-REM.pdf	(12-13)	2	Applicant Arguments/Remarks Made in an Amendment	79 KB
DAM35686 EXT.pdf		2	Extension of Time	427 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
DAM35686 AMD.pdf	EE6D9931283A5EB074749B6DE768AF3DED4C92E5B0C5FD93 93A5FD6AE59EB43332E0D9E0286251B6CA452752086E0ED88 FF91035DD07A3B7FFDCD00500BD6653
DAM35686 AMD-A....pdf	FA712EDE059DF0D49E87AF727BB448B784D063A5DF71BF487 DE162E6734AF06C5E0C983605B84C9239C546F78EB8ABACBA 0E8C637BA98457596432AF1850248B
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DAM35686 AMD-REM.pdf	6BA31082E71315E9B23840FDAB64345EDDBDEB61981B67022 BFBF7109D37EEC5039C6DE02E7AEC120C1968A5FEC A0F240 6E1FD93ECD83C9DCB662BC995A152F
DAM35686 EXT.pdf	BAD9E8CC5BCF362758E8553596EC997A0C6D90F38C1D738E 8BAAFF162BCE9165ED003A49BEE722BD049D8891EAF A42D0 9153CF47A1E857EDC43CA599DE541178

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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

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Sivakumar CHATURVEDI et al.
Serial No.: 18/099,175
Confirmation No.: 3720
Filed: January 19, 2023
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
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Alexandria, VA 22313-1450

Dear Sir:

AMENDMENT AND RESPONSE TO OFFICE ACTION

This communication is responsive to the Examiner's Office Action dated May 22, 2023.
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 12 of this paper.

IN THE CLAIMS

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

1. (Canceled)
2. (New) A method for enabling an end to end connection for a first user and a second user to participate in a real-time communication session over the internet, the method comprising:
 - creating for storage on a server, a superblock application configured for use by a computing device of the first user and a superblock application configured for use by a computing device of
 - 5 the second user, wherein each of the superblock applications has a function block compiled therein, wherein each respective superblock application communicates with its respective function block using application programming interface (API) calls;
 - receiving, by the superblock application on the computing device of the first user, a request to initiate a real-time communication session with the second user;
 - 10 communicating, by the superblock application on the computing device of the first user, the request to a remote resource;
 - providing, by the superblock application on the computing device of the second user, a notification that the real-time communication session with the first user is being requested;
 - identifying, by the superblock application on the computing device of the second user,
 - 15 rendering information; and
 - rendering, by the superblock application on the computing device of the second user, the real-time communication session with the first user using the rendering information.
3. (New) The method of claim 2 wherein communicating, by the superblock application on the computing device of the first user, the request to the remote resource includes communicating, by the superblock application on the computing device of the first user, the request to the function block on the computing device of the first user using one or more application programming
- 5 interface (API) calls;
 - wherein providing, by the superblock application on the computing device of the second user, the notification that the real-time communication session with the first user is being requested

includes providing the notification by the function block on the computing device of the second user; and

10 wherein rendering, by the superblock application on the computing device of the second user, the real-time communication session with the first user using the rendering information includes:

 providing, by the superblock application on the computing device of the second user, the rendering information to the function block on the computing device of the second user; and

15 rendering, by the function block on the computing device of the second user, the real-time communication session with the first user using the rendering information.

4. (New) The method of claim 2 further comprising initializing, by the superblock application on at least one of the computing devices of the first and second users, the respective function block following initialization of the superblock application on the computing device.

5. (New) The method of claim 2 further comprising configuring, by the superblock application on at least one of the computing devices of the first and second users, at least one configurable parameter of the respective function block.

6. (New) The method of claim 2 wherein providing the notification includes displaying an icon to enable the second user to accept the request.

7. (New) The method of claim 2 wherein providing the rendering information includes providing information corresponding to a mic of the computing device of the second user.

8. (New) The method of claim 2 wherein providing the rendering information includes providing information corresponding to a speaker of the computing device of the second user.

9. (New) The method of claim 2 wherein providing the rendering information includes providing information for displaying a window within the superblock application on the computing device of the second user.

10. (New) The method of claim 9 wherein the window is at least one of a video window and an instant message window.
11. (New) The method of claim 9 wherein the window is resizable by the second user.
12. (New) The method of claim 11 further comprising sending, by the superblock application on the computing device of the second user to the function block on the computing device of the second user, an update for the window, wherein the update indicates that the window has been resized.
13. (New) The method of claim 9 wherein the window is movable by the second user.
14. (New) The method of claim 13 further comprising sending, by the superblock application on the computing device of the second user to the function block on the computing device of the second user, an update for the window, wherein the update indicates that the window has been moved.
15. (New) The method of claim 2 wherein providing the rendering information includes providing information corresponding to a camera of the computing device of the second user.
16. (New) The method of claim 2 wherein the superblock application on the computing device of the first user is adapted to update a presence indicator indicating a status of the second user, wherein the status includes at least an offline status and an online status.
17. (New) The method of claim 2 wherein the API calls used by each superblock application are compatible with an interface provided by its respective function block.
18. (New) The method of claim 2 wherein the real-time communication session is an instant messaging service.
19. (New) The method of claim 2 wherein the real-time communication session is a voice call.

20. (New) The method of claim 2 wherein the real-time communication session is a video call.
21. (New) The method of claim 2 wherein the superbloc application on at least one of the computing devices of the first and second users is further adapted to operate with iOS as an operating system for the computing device.
22. (New) The method of claim 2 wherein the superbloc application on at least one of the computing devices of the first and second users is further adapted to operate with Android as an operating system for the computing device.
23. (New) The method of claim 2 wherein the computing device of at least one of the first and second users is a mobile device.
24. (New) The method of claim 23 wherein the computing device of at least one of the first and second users is a cellular phone.
25. (New) The method of claim 23 wherein the computing device of at least one of the first and second users is a smart phone.
26. (New) The method of claim 23 wherein the computing device of at least one of the first and second users is a tablet.
27. (New) The method of claim 23 wherein the computing device of at least one of the first and second users is a personal digital assistant.
28. (New) The method of claim 2 wherein the computing device of at least one of the first and second users is a laptop computer.
29. (New) The method of claim 2 wherein the computing device of at least one of the first and second users is a desktop computer.

30. (New) A method for providing a real-time communication session to a superblock application intended for use on a computing device, the method comprising:
- obtaining a function block from a third party, wherein the function block is adapted to be compiled with the superblock application and is adapted to interact with one or more servers
- 5 connected over the internet to provide the real-time communication session, and wherein the function block is adapted to interact with the superblock application through one or more application programming interface (API) calls by the superblock application;
- configuring the superblock application to interact with the function block using the one or more API calls; and
- 10 compiling the superblock application with the function block, wherein the function block is enabled to provide the real-time communication session to the superblock application using the one or more servers.
31. (New) The method of claim 30 wherein the API calls are compatible with an interface provided by the function block.
32. (New) The method of claim 30 further comprising configuring the superblock application to initialize the function block following initialization of the superblock application on the computing device.
33. (New) The method of claim 30 further comprising selecting the real-time communication session from a plurality of available services for the function block, wherein services that are not selected are not included in the function block.
34. (New) The method of claim 30 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.
35. (New) The method of claim 30 further comprising providing authentication credentials for use by the superblock application, wherein the authentication credentials are used to configure the function block to access the real-time communication session via the one or more servers.

36. (New) The method of claim 30 further comprising configuring at least one parameter of the function block.
37. (New) The method of claim 36 wherein the at least one parameter includes a payload size.
38. (New) The method of claim 36 wherein the at least one parameter includes network address information of the one or more servers.
39. (New) The method of claim 30 further comprising configuring at least one policy for the function block.
40. (New) The method of claim 39 wherein the at least one policy includes a cost policy.
41. (New) The method of claim 39 wherein the at least one policy includes a security policy.
42. (New) The method of claim 30 wherein the function block is adapted to include signaling communication between the one or more servers and the function block to enable establishment of the real-time communication session.
43. (New) The method of claim 42 wherein the signaling communication include session setup, management, and teardown.
44. (New) The method of claim 43 further comprising using, by the function block, a Session Initiation Protocol (SIP) for at least some of the signaling communication.
45. (New) The method of claim 44 wherein the real-time communication session uses Real-time Transport Protocol (RTP) as a data transport protocol.
46. (New) The method of claim 44 further comprising using, by the function block, a Secure Real-time Transport Protocol (SRTP) for at least some data transferred during the real-time communication session with the function block.

47. (New) The method of claim 46 further comprising encrypting, by the function block, at least some data transferred during the real-time communication session using SRTP keys.
48. (New) The method of claim 46 further comprising decrypting, by the function block, at least some data transferred during the real-time communication session using SRTP keys.
49. (New) The method of claim 43 further comprising using, by the function block, a Datagram Transport Layer Security (DTLS) to secure at least some data transferred during the real-time communication session with the function block.
50. (New) The method of claim 49 further comprising using, by the one or more servers, a User Datagram Protocol (UDP) as an underlying transfer protocol for data secured using DTLS.
51. (New) The method of claim 43 further comprising using, by the one or more servers, at least one network address translation (NAT) protocol for at least some of the signaling communication.
52. (New) The method of claim 51 wherein the at least one NAT protocol includes at least one of a Session Traversal Utilities for NAT (STUN) protocol, a Traversal Using Relay around NAT (TURN) protocol, and an Interactive Connectivity Establishment (ICE) protocol.
53. (New) The method of claim 43 wherein performing the session setup includes:
 sending, by the function block, information identifying at least one codec that is available for use by the function block to the one or more servers; and
 receiving, by the function block, information from the one or more servers informing the
5 function block of at least one codec that is available for use by the one or more servers.
54. (New) The method of claim 43 wherein performing the session setup includes sending, by the function block, information identifying at least one bandwidth parameter that is available for use by the function block to the one or more servers.

55. (New) The method of claim 30 wherein the one or more servers act as a bridge for the real-time communication session between the function block and another computing device.
56. (New) The method of claim 30 wherein the function block receives network address information of another computing device from the one or more servers to enable the function block to form a peer-to-peer connection for the real-time communication session with the other computing device.
57. (New) The method of claim 30 wherein the real-time communication session is an instant messaging service.
58. (New) The method of claim 30 wherein the real-time communication session is a voice call.
59. (New) The method of claim 30 wherein the real-time communication session is a video call.
60. (New) The method of claim 30 further comprising making the superblock application available for use on the computing device.
61. (New) The method of claim 30 wherein the function block is further adapted to operate with iOS as an operating system for the computing device.
62. (New) The method of claim 30 wherein the function block is further adapted to operate with Android as an operating system for the computing device.
63. (New) The method of claim 30 wherein the computing device is a mobile device.
64. (New) The method of claim 63 wherein the computing device is a cellular phone.
65. (New) The method of claim 63 wherein the computing device is a smart phone.

66. (New) The method of claim 63 wherein the computing device is a tablet.
67. (New) The method of claim 63 wherein the computing device is a personal digital assistant.
68. (New) The method of claim 30 wherein the computing device is a laptop computer.
69. (New) The method of claim 30 wherein the computing device is a desktop computer.
70. (New) The method of claim 30 wherein the function block is further adapted to receive a notification from the one or more servers.
71. (New) The method of claim 70 wherein the notification requires a response and the function block is adapted to establish the real-time communication session in response to the notification.
72. (New) The method of claim 70 wherein the notification is a request to initiate the real-time communication session, and the one or more API calls received by the function block from the superblock application indicate whether the request has been granted or denied by the superblock application.
73. (New) The method of claim 70 wherein the notification is a presence notification.
74. (New) The method of claim 73 wherein the function block is further adapted to update a presence indicator within the superblock application in response to receiving the presence notification.
75. (New) The method of claim 30 wherein the function block is further adapted to send a notification to the one or more servers.
76. (New) A non-transitory computer readable medium embodying a computer program comprising instructions for providing a real-time communication session using one or more servers

connected over the internet to a superblock application intended for use on a computing device,
the instructions comprising:

5 the superblock application adapted to interact with a function block through one or more
application programming interface (API) calls in order to access the real-time communication
session provided by the function block; and

 the function block compiled into the superblock application, wherein the function block is
adapted to be compiled with the superblock application and is adapted to interact with the one or
10 more servers connected over the internet to provide the real-time communication session within
the superblock application.

REMARKS

Claim 1 was pending in this application.

Claim 1 was rejected.

Claim 1 has been canceled herein.

Claims 2-76 have been added as shown above.

Claims 2-76 are now pending in this application.

Reconsideration is respectfully requested.

DOUBLE PATENTING REJECTION

Claim 1 stands rejected under 35 U.S.C. §101 on the ground of statutory double patenting as being directed to the same invention as claim 1 of U.S. Patent No. 9,578,092.

Applicant has canceled Claim 1 and added new Claims 2-76. Applicant respectfully submits the new claims are different from claim 1 of U.S. Patent No. 9,578,092. Accordingly, Applicant respectfully requests withdrawal of the double patenting rejection.

CONCLUSION

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/DAMA60-35686.

Respectfully submitted,
MUNCK WILSON MANDALA, LLP
Attorneys for Applicant

/Keith D. Harden, Reg. #74472/
Keith D. Harden
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KDH/jsr

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November 21, 2023

AMENDMENT AND RESPONSE
SN: 18/099,175
Atty. Dkt. No. DAMA60-35686

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 18/099,175		Filing Date 01/19/2023		☐ To be Mailed			
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO											
APPLICATION AS FILED - PART I											
		(Column 1)		(Column 2)							
FOR		NUMBER FILED		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(j))		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		11/21/2023		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA			
		Total (37 CFR 1.16(j))		* 75		Minus ** 20		= 55			
		Independent (37 CFR 1.16(h))		* 3		Minus *** 3		= 0			
		☐ Application Size Fee (37 CFR 1.16(s))									
		☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
								TOTAL ADD'L FEE		2200	
		(Column 1)		(Column 2)		(Column 3)					
AMENDMENT				CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA			
		Total (37 CFR 1.16(j))		*		Minus **		=			
		Independent (37 CFR 1.16(h))		*		Minus ***		=			
		☐ 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".								/CAROL A BARNES/			
*** 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.**

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/099,175	01/19/2023	Sivakumar CHATURVEDI	DAMA60-35686

CONFIRMATION NO. 3720

PUBLICATION NOTICE

25883
MUNCK WILSON MANDALA L.L.P.
P.O. Drawer 800889
DALLAS, TX 75380



OC0000001379/4836

Date Mailed: 05/25/2023

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

Publication No.US-2023-0164561-A1

Publication Date:05/25/2023

NOTICE OF PUBLICATION OF APPLICATION

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

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

The publication process established by the Office does not provide for mailing a copy of the publication to the applicant. A copy of the publication may be obtained from the Office upon payment of the application fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571)272-3150 or (800)972-6382, by facsimile at (571)273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

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

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/099,175	01/19/2023	Sivakumar CHATURVEDI	DAMA60-35686	3720
25883	7590	05/22/2023		
MUNCK WILSON MANDALA L.L.P			EXAMINER	
P.O. Drawer 800889			DORAIS, CRAIG C	
DALLAS, TX 75380				
			ART UNIT	PAPER NUMBER
			2194	
			NOTIFICATION DATE	DELIVERY MODE
			05/22/2023	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@apccoll.com

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.

Double Patenting

2. Claim 1 directed to the same invention as that of claim 1 of commonly assigned patent no. 9,578,092. Under 35 U.S.C. 101, more than one patent may not be issued on the same invention.

3. The USPTO may not institute a derivation proceeding in the absence of a timely filed petition. The U.S. Patent and Trademark Office normally will not institute a derivation proceeding between applications or a patent and an application having common ownership (see 37 CFR 42.411). The applicant should amend or cancel claims such that the reference and the instant application no longer contain claims directed to the same invention.

Instant Application

Patent No. 9,578,092

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	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
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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.	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.
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Conclusion

4. 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-S 6:00 - 10:00am.

5. 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>.

6. 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.

7. 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

Search Notes 	Application/Control No. 18/099,175	Applicant(s)/Patent Under Reexamination CHATURVEDI et al.
	Examiner CRAIG C DORAIS	Art Unit 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 keyword and CPC searches. New Scholar searches. See attached.	05/17/2023	CD

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/CRAIG C DORAIS/ Primary Examiner, Art Unit 2194	
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Bibliographic Data

Application No: 18/099,175

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.
01/19/2023	719	2194	DAMA60-35686
RULE			

APPLICANTS

DAMAKA, INC.,

INVENTORS

Sivakumar CHATURVEDI, Allen, TX, UNITED STATES

Satish GUNDABATHULA, Irving, TX, UNITED STATES

Rashmi HIREMATH, Allen, TX, UNITED STATES

CONTINUING DATA

This application 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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02/09/2023

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MUNCK WILSON MANDALA L.L.P

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UNITED STATES

FILING FEE RECEIVED

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Doc code: IDS

PTO/SB/08a (01-22)

Doc description: Information Disclosure Statement (IDS) Filed

Approved for use through 05/31/2024. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	18099175
	Filing Date	2023-01-19
	First Named Inventor	Sivakumar CHATURVEDI
	Art Unit	2194
	Examiner Name	
	Attorney Docket Number	DAMA60-35686

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.	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

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First Named Inventor	Sivakumar CHATURVEDI
Art Unit	2194
Examiner Name	
Attorney Docket Number	DAMA60-35686

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
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15	7010109	B2	2006-03-07	Gritzer et al.
16	7092385	B2	2006-08-15	Gallant et al.
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18	7185114	B1	2007-02-27	Hariharasubrahmanian
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**INFORMATION DISCLOSURE
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(Not for submission under 37 CFR 1.99)

Application Number	18099175
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First Named Inventor	Sivakumar CHATURVEDI
Art Unit	2194
Examiner Name	
Attorney Docket Number	DAMA60-35686

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.	
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Art Unit	2194
Examiner Name	
Attorney Docket Number	DAMA60-35686

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.
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18099175	
	Filing Date		2023-01-19	
	First Named Inventor	Sivakumar CHATURVEDI		
	Art Unit	2194		
	Examiner Name			
Attorney Docket Number		DAMA60-35686		

	42	8065418	B1	2011-11-22	Abuan et al.	
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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20090254753	A1	2009-10-08	Atley et al.	
	2	20120064976	A1	2012-03-15	Gault et al.	

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	1	EP: Office Action of EP 14825971.6 (related application); 14 October 2019; 5 pages.	
	2	Hao Wang, Skype VoIP service-architecture and comparison, In: INFOTECH Seminar Advanced Communication Services (ASC), 2005, pp. 4, 7, 8.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	18099175
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	First Named Inventor	Sivakumar CHATURVEDI
	Art Unit	2194
	Examiner Name	
	Attorney Docket Number	DAMA60-35686

3	International Search Report and Written Opinion of PCT/US2015/43633, 2015 October 26, 21 pgs.
4	International Search Report and Written Opinion of the International Searching Authority from PCT/US2006/040312, dated March 2, 2007.
5	International Search Report and Written Opinion of the International Searching Authority from PCT/US2006/047841, dated September 12, 2008.
6	International Search Report and Written Opinion of the International Searching Authority from PCT/US2007/002424, dated August 14, 2007.
7	International Search Report and Written Opinion of the International Searching Authority from PCT/US2007/068820, dated June 11, 2008.
8	International Search Report and Written Opinion of the International Searching Authority from PCT/US2007/068821, dated June 14, 2008.
9	International Search Report and Written Opinion of the International Searching Authority from PCT/US2007/068823, dated June 1, 2008.
10	International Search Report and Written Opinion of the International Searching Authority from PCT/US2008/075141, dated March 5, 2009.
11	International Search Report and Written Opinion of the International Searching Authority from PCT/US2008/078142, dated March 27, 2009.
12	International Search Report and Written Opinion of the International Searching Authority from PCT/US2008/084950, dated April 27, 2009.
13	International Search Report and Written Opinion of the International Searching Authority from PCT/US2014/039777, dated September 30, 2014.

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	Filing Date	2023-01-19
	First Named Inventor	Sivakumar CHATURVEDI
	Art Unit	2194
	Examiner Name	
	Attorney Docket Number	DAMA60-35686

14	International Search Report and Written Opinion of the International Searching Authority from PCT/US2014/39782, dated October 17, 2014.
15	SAACS, 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.
16	JEFF TYSON, "How Instant Messaging Works", www.verizon.com/learningcenter, March 9, 2005.
17	PCT: International Preliminary Report on Patentability of PCT/US14/39782; 19 April 2016; 9 pgs.
18	PCT: International Preliminary Report on Patentability of PCT/US2008/084950; 01 June 2010; 5 pgs.
19	PCT: International Preliminary Report on Patentability of PCT/US2014/039777; 28 January 2016; 8 pgs.
20	PCT: International Search Report and Written Opinion of PCT/US2015/43630 (related application), 2015 October 30, 20 pgs.
21	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.
22	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.
23	RORY BLAND, et al, "P2P Routing" 03/2002.
24	ROSENBERG, "STUN- Simple Traversal of UDP Through NAT", September 2002, XP015005058.

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	First Named Inventor	Sivakumar CHATURVEDI	
	Art Unit	2194	
	Examiner Name		
Attorney Docket Number		DAMA60-35686	

25	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.
26	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.
27	SINGH et al., "Peer-to Peer Internet Telephony Using SIP", Department of Computer Science, Columbia University, October 31, 2004, XP-002336408.
28	SINHA, S. and OGLIESKI, A., A TCP Tutorial, November 1998 (Date posted on Internet: 19 April 2001) [Retrieved from the Internet]

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EXAMINER SIGNATURE

Examiner Signature	/CRAIG C DORAIS/	Date Considered	05/10/2023
--------------------	------------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	18099175
	Filing Date	2023-01-19
	First Named Inventor	Sivakumar CHATURVEDI
	Art Unit	2194
	Examiner Name	
	Attorney Docket Number	DAMA60-35686

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).

OR

☐ 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)	2023-04-17
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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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.
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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.

Doc code: IDS

PTO/SB/08a (01-22)

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	18099175
	Filing Date	2023-01-19
	First Named Inventor	Sivakumar CHATURVEDI
	Art Unit	2194
	Examiner Name	
	Attorney Docket Number	DAMA60-35686

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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.		
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	7	6311150	B1	2001-10-30	Ramaswamy et al.		
	8	6389016	B1	2002-05-14	Sabaa et al.		

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	Attorney Docket Number	DAMA60-35686	

	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.	
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	13	6999932	B1	2006-02-14	Zhou	
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	15	7010109	B2	2006-03-07	Gritzer et al.	
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	Attorney Docket Number	DAMA60-35686	

	20	7302496	B1	2007-11-27	Metzger	
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	Attorney Docket Number	DAMA60-35686	

	31	7590758	B2	2009-09-15	Takeda 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.	
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	1	EP: Office Action of EP 14825971.6 (related application); 14 October 2019; 5 pages.	
	2	Hao Wang, Skype VoIP service-architecture and comparison, In: INFOTECH Seminar Advanced Communication Services (ASC), 2005, pp. 4, 7, 8.	

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	Attorney Docket Number	DAMA60-35686

3	International Search Report and Written Opinion of PCT/US2015/43633, 2015 October 26, 21 pgs.
4	International Search Report and Written Opinion of the International Searching Authority from PCT/US2006/040312, dated March 2, 2007.
5	International Search Report and Written Opinion of the International Searching Authority from PCT/US2006/047841, dated September 12, 2008.
6	International Search Report and Written Opinion of the International Searching Authority from PCT/US2007/002424, dated August 14, 2007.
7	International Search Report and Written Opinion of the International Searching Authority from PCT/US2007/068820, dated June 11, 2008.
8	International Search Report and Written Opinion of the International Searching Authority from PCT/US2007/068821, dated June 14, 2008.
9	International Search Report and Written Opinion of the International Searching Authority from PCT/US2007/068823, dated June 1, 2008.
10	International Search Report and Written Opinion of the International Searching Authority from PCT/US2008/075141, dated March 5, 2009.
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13	International Search Report and Written Opinion of the International Searching Authority from PCT/US2014/039777, dated September 30, 2014.

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	Attorney Docket Number	DAMA60-35686

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16	JEFF TYSON, "How Instant Messaging Works", www.verizon.com/learningcenter, March 9, 2005.
17	PCT: International Preliminary Report on Patentability of PCT/US14/39782; 19 April 2016; 9 pgs.
18	PCT: International Preliminary Report on Patentability of PCT/US2008/084950; 01 June 2010; 5 pgs.
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20	PCT: International Search Report and Written Opinion of PCT/US2015/43630 (related application), 2015 October 30, 20 pgs.
21	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.
22	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.
23	RORY BLAND, et al, "P2P Routing" 03/2002.
24	ROSENBERG, "STUN- Simple Traversal of UDP Through NAT", September 2002, XP015005058.

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	Art Unit	2194	
	Examiner Name		
Attorney Docket Number		DAMA60-35686	

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26	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.
27	SINGH et al., "Peer-to Peer Internet Telephony Using SIP", Department of Computer Science, Columbia University, October 31, 2004, XP-002336408.
28	SINHA, S. and OGLIESKI, A., A TCP Tutorial, November 1998 (Date posted on Internet: 19 April 2001) [Retrieved from the Internet]

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	Art Unit	2194
	Examiner Name	
	Attorney Docket Number	DAMA60-35686

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).

OR

☐ 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)	2023-04-17
Name/Print	Keith D. Harden	Registration Number	74472

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APPLICATION #
18/099,175

RECEIPT DATE / TIME
04/17/2023 10:27:20 AM ET

ATTORNEY DOCKET #
DAMA60-35686

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 # 3720

FILED BY Keith Harden

PATENT CENTER # 61929582

FILING DATE 01/19/2023

CUSTOMER # 25883

FIRST NAMED INVENTOR Sivakumar CHATURVEDI

CORRESPONDENCE ADDRESS -

AUTHORIZED BY -

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
DAM35686IDSTransmittal.pdf	1	Transmittal Letter	76 KB
DAM35686IDS.pdf	10	Information Disclosure Statement (IDS) Form (SB08)	1255 KB

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DAM35686IDSTransmittal.pdf	B399B325B43A87D9CD40C7F63555A068CF12D15A96B7ACEF2 050DCC6C521B0AF41F933DD060DA48DE7102B12051D93D343 B0FA9E9CF079832E1148F67285A7D6

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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.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: CHATURVEDI, Sivakumar
Serial No.: 18/099,175
Confirmation No.: 3720
Filed: January 19, 2023
For: SYSTEM AND METHOD FOR PROVIDING ADDITIONAL
FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED
MANNER

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

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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 Nos. 17/109,488, 15/431,046, 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
Attorneys for Applicant(s)

/Keith D. Harden, Reg. #74472/

Keith D. Harden
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April 17, 2023

INFORMATION DISCLOSURE STATEMENT
Serial No. 18/099,175

1



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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
18/099,175	01/19/2023		664	DAMA60-35686	1	1

25883
MUNCK WILSON MANDALA L.L.P.
P.O. Drawer 800889
DALLAS, TX 75380

CONFIRMATION NO. 3720
FILING RECEIPT



0000000053594474

Date Mailed: 02/14/2023

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.

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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 Priority data as claimed by applicant

This application 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: 02/09/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/099,175**

Projected Publication Date: 05/25/2023

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

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 Assets Control, 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.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 18/099,175				
APPLICATION AS FILED - PART I										
(Column 1)		(Column 2)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY				
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	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), (l), 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		TOTAL				
				664						
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	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))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	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))							OR		
	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". *** 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 found in the appropriate box in column 1.										



TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	18/099,175
Filing Date	January 19, 2023
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	DAMA60-35686

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)			
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.			
☒ *Total of <u>ONE</u> forms are submitted.			

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

Doc Code: PA..

Document Description: Power of Attorney

PTO/AIA/82B (07-13)

Approved for use through 11/30/2014. OMB 0651-0051
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.

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number

Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)



I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above:

25883

OR



I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:



The address associated with the above-mentioned Customer Number

OR



The address associated with Customer Number:

OR

Firm or
Individual Name

Address

City

State

Zip

Country

Telephone

Email

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

DAMAKA, INC.

Inventor or Joint Inventor (title not required below)



Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)



Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)



Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature

Date (Optional)

Name

Title

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.☒ Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Electronic Acknowledgement Receipt	
EFS ID:	47399123
Application Number:	18099175
International Application Number:	
Confirmation Number:	3720
Title of Invention:	SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER
First Named Inventor/Applicant Name:	Sivakumar CHATURVEDI
Customer Number:	25883
Filer:	Keith D. Harden
Filer Authorized By:	
Attorney Docket Number:	DAMA60-35686
Receipt Date:	19-JAN-2023
Filing Date:	
Time Stamp:	18:55:19
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	DAM35686POAEXE.pdf	923122	no	2
			626053aa9db6f3d5707d74ff0c546f5cbd400190		

Warnings:

Information:	
Total Files Size (in bytes):	923122
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. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> 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. <u>New International Application Filed with the USPTO as a Receiving Office</u> 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.	

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	DAMA60-35686
		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					
City	Irving	State/Province	TX	Country of Residence	US
Mailing Address of Inventor:					
Address 1	1235 Nocona Drive				
Address 2					
City	Irving	State/Province	TX		
Postal Code	75063	Country			
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					

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	DAMA60-35686		
		Application Number			
Title of Invention	SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER				
City	Allen	State/Province	TX	Country of Residence	US
Mailing Address of Inventor:					
Address 1		700 Longwood Drive			
Address 2					
City	Allen	State/Province	TX		
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	DAMA60-35686	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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	DAMA60-35686
		Application Number	
Title of Invention	SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER		

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		17109488	2020-12-02	
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
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

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number		DAMA60-35686	
		Application Number			
Title of Invention	SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER				

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.					

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 ^j (if applicable)
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ 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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	DAMA60-35686
		Application Number	
Title of Invention	SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER		

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)

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	DAMA60-35686
		Application Number	
Title of Invention	SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER		

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	DAMA60-35686
		Application Number	
Title of Invention	SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER		

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	DAMA60-35686
		Application Number	
Title of Invention	SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER		

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

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

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**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. 17/109,488, filed December 2, 2020, entitled SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER (Atty. Dkt. No. DAMA60-35048), 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 (Atty. Dkt. No. DAMA60-34663), 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 (Atty. Dkt. No. DAMA60-33462), 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 (Atty. Dkt. No. DAMA-33216), 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, issued as U.S. Patent No. 9,491,233 on November 8, 2016 (Atty. Dkt. No. DAMA-32977), 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 (Atty. Dkt. No. DAMA-32579), 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 (Atty. Dkt. No.

DAMA-31813), 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 (Atty. Dkt. No. DAMA-31812). U.S. Application Nos. 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::string& 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& wldata )
= 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 understood 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 superbloc application is authorized to access. For example, if function block 200 supports instant messaging but the superbloc 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 superbloc 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 superbloc 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 superbloc 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 superbloc 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 superbloc application. The fifth service involves instant messaging and is supported by the device 100 and the external services 204, but not the superbloc 104.

[0066] The sixth service involves a whiteboard, but the superbloc 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 superbloc 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
5 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
10 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
15 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.

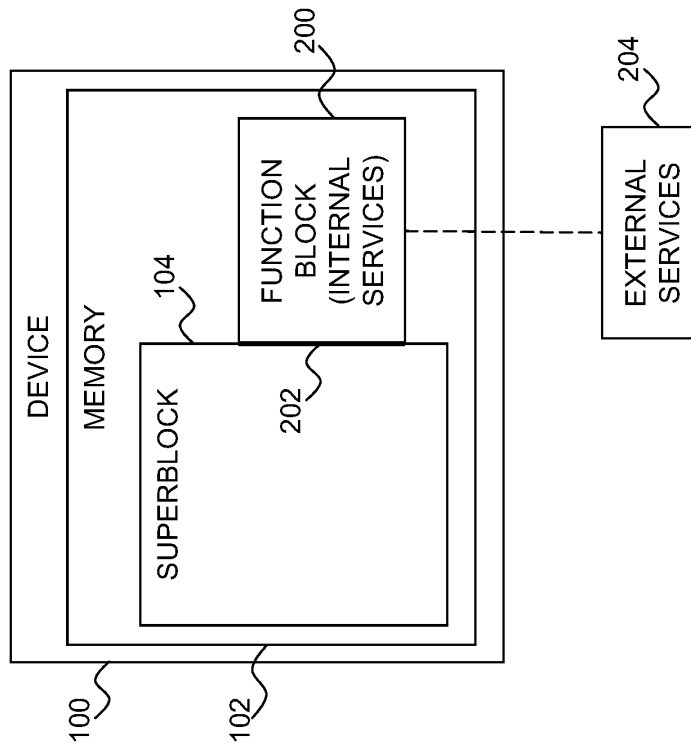


FIG. 2A

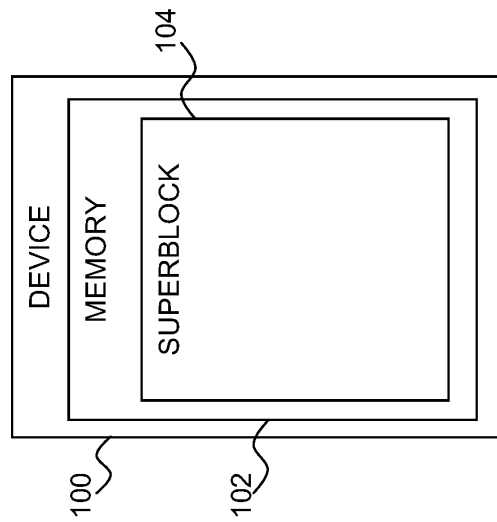
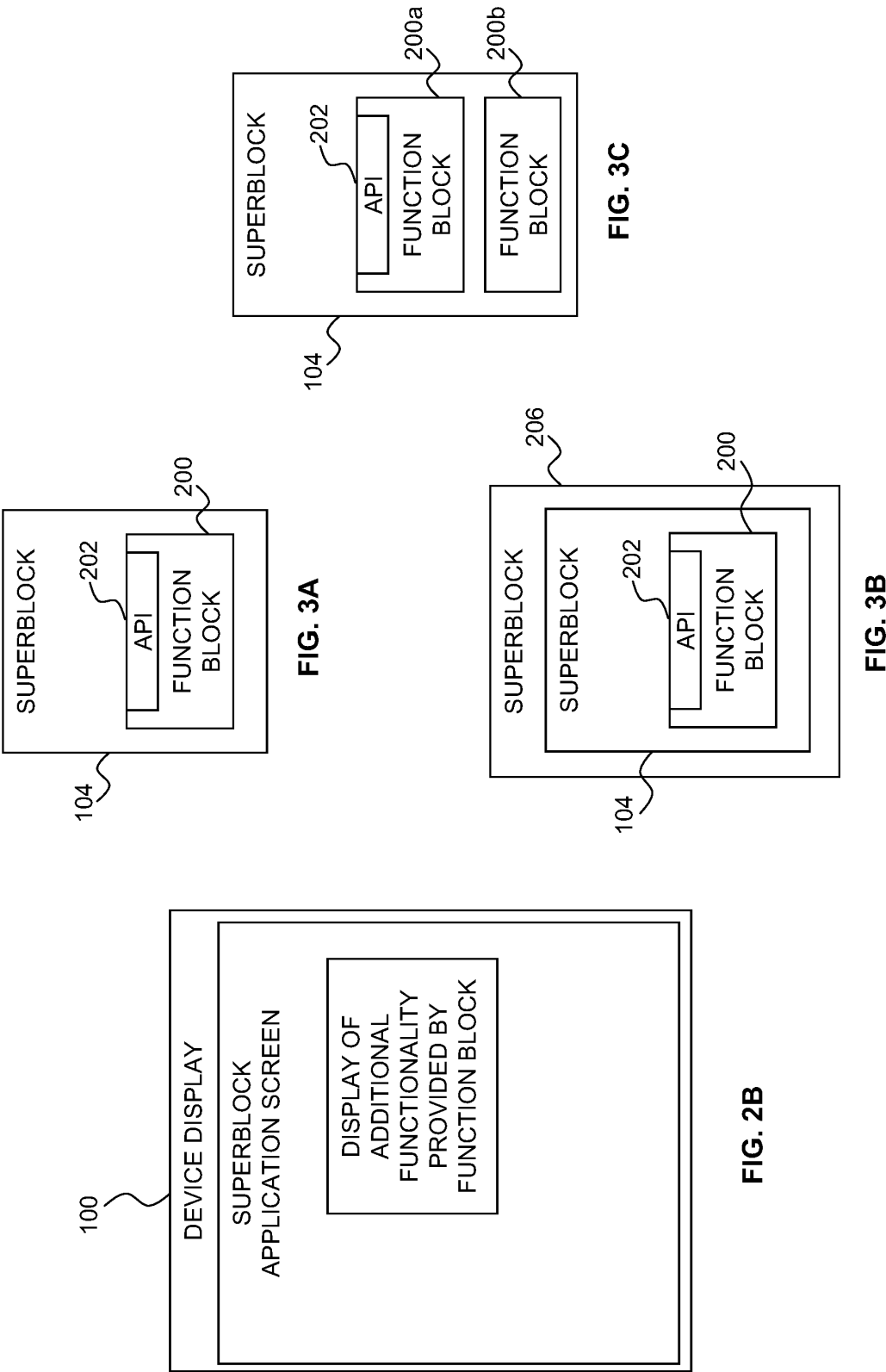


FIG. 1



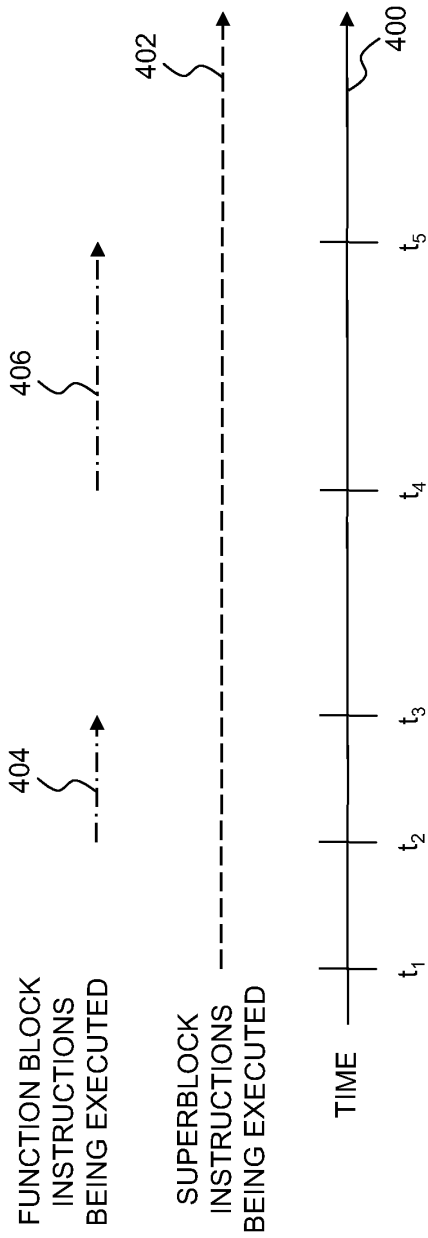


FIG. 4

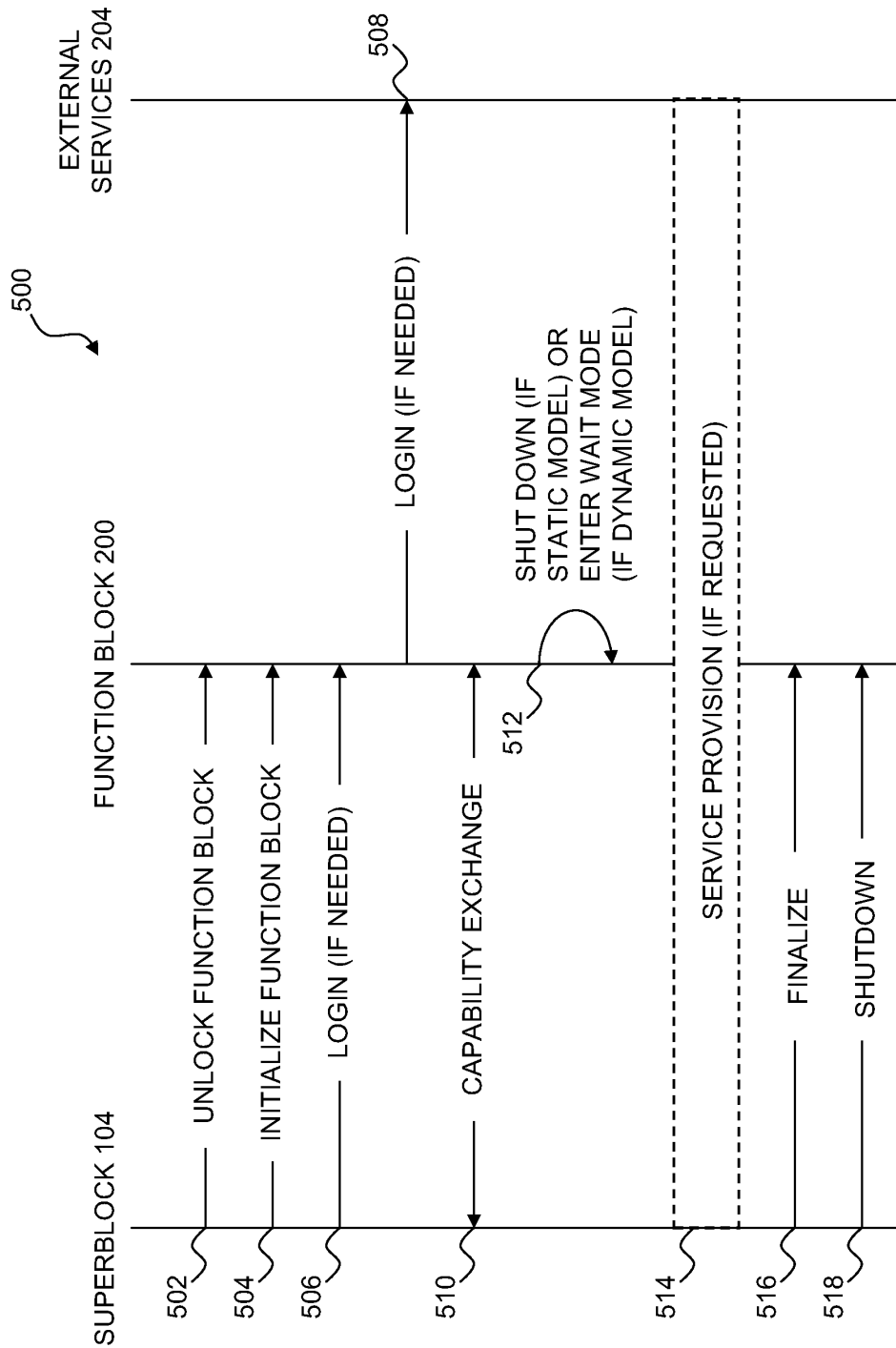


FIG. 5

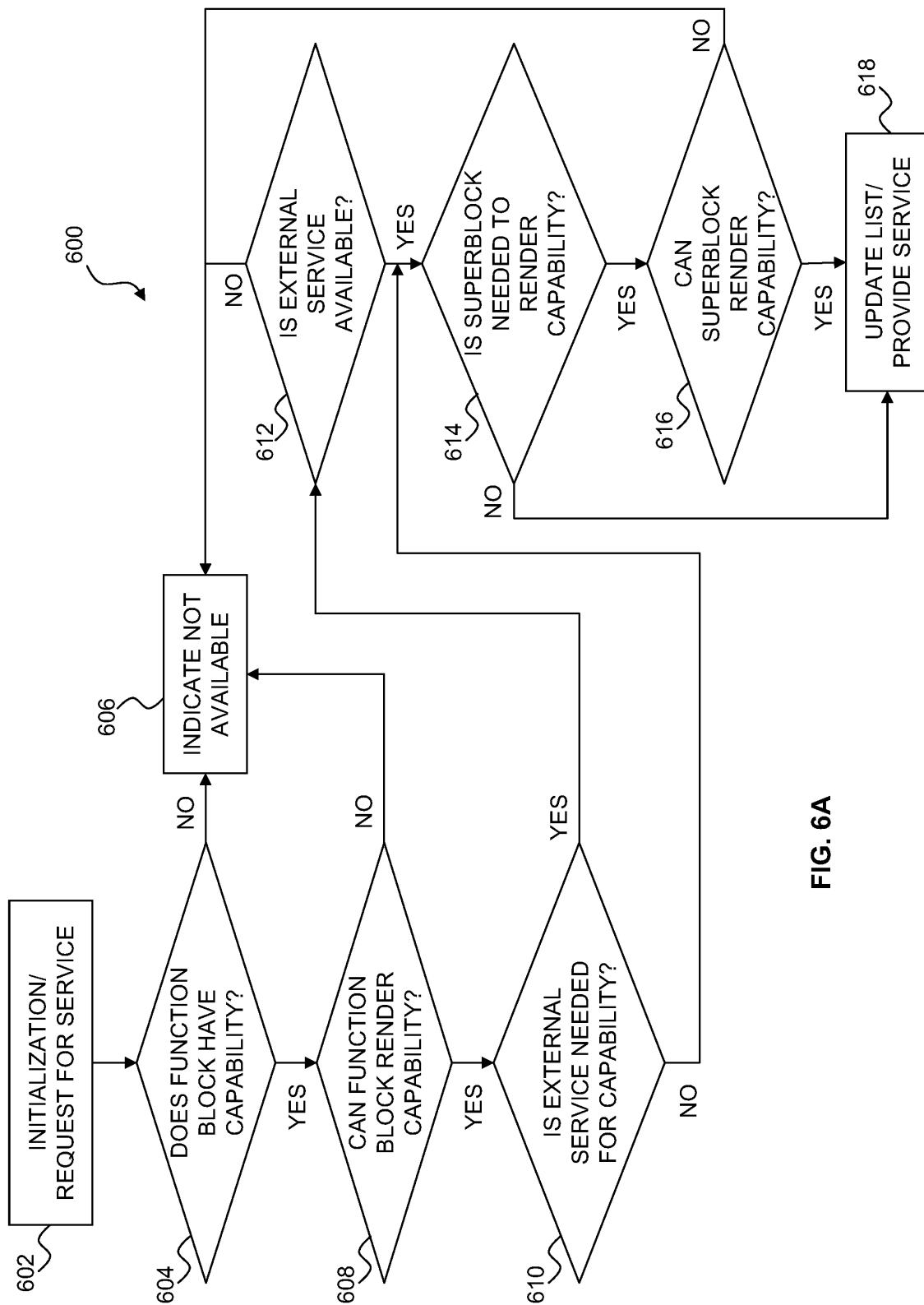


FIG. 6A

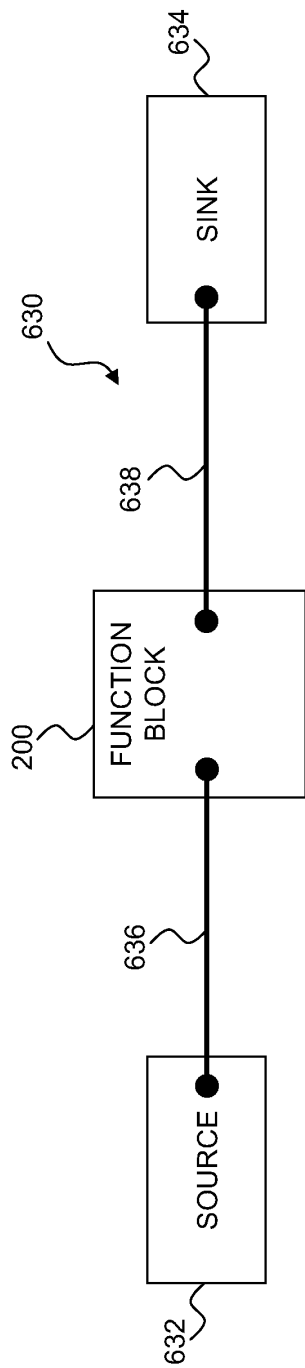


FIG. 6B

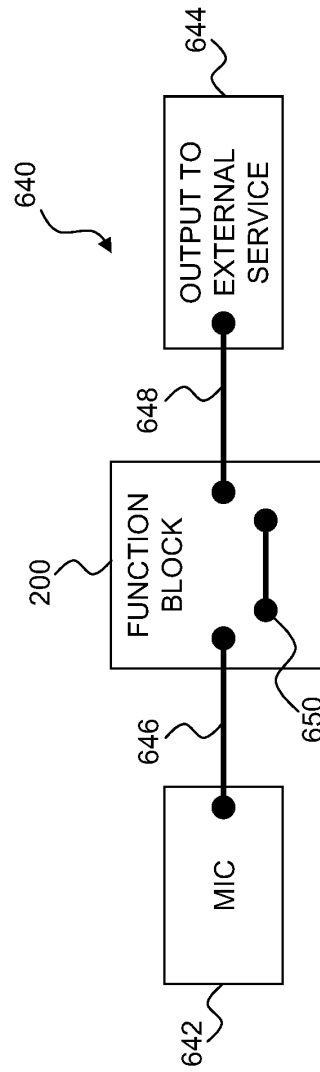


FIG. 6C

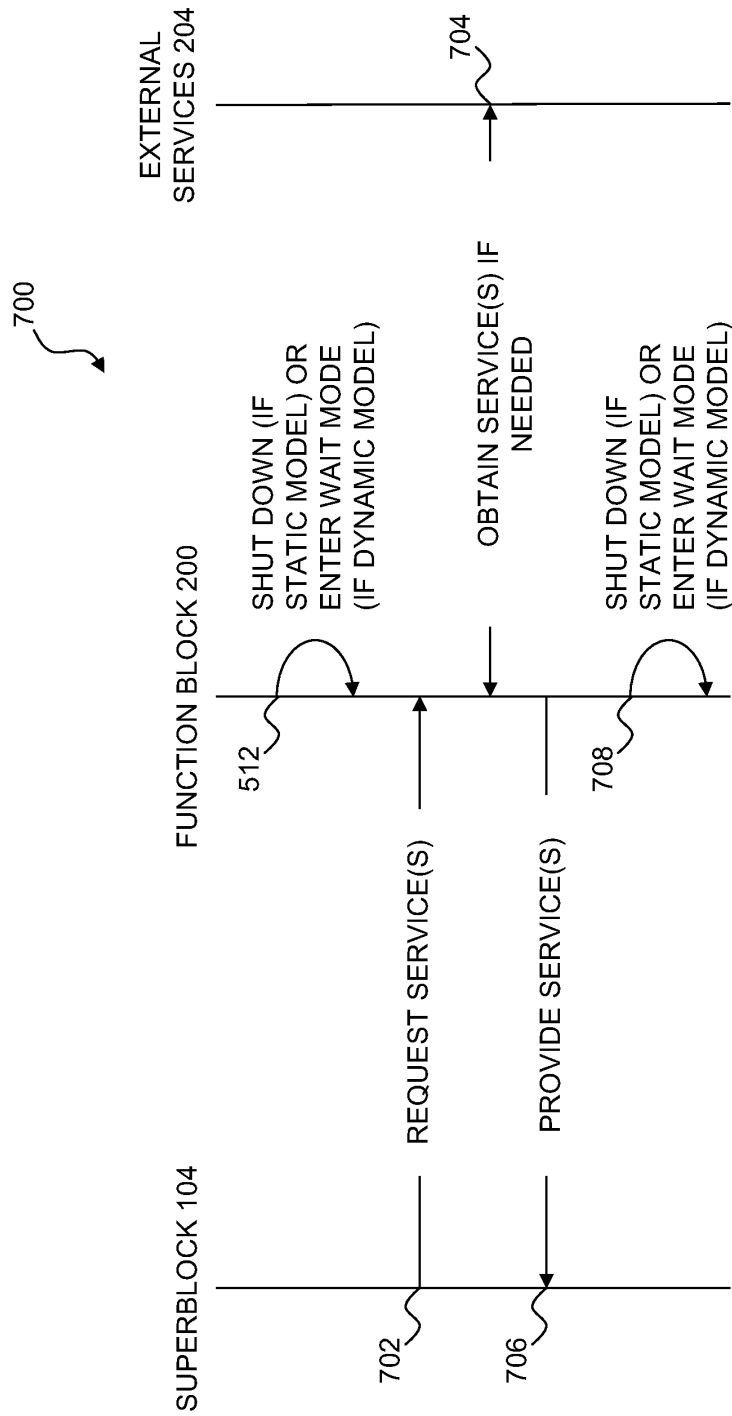


FIG. 7

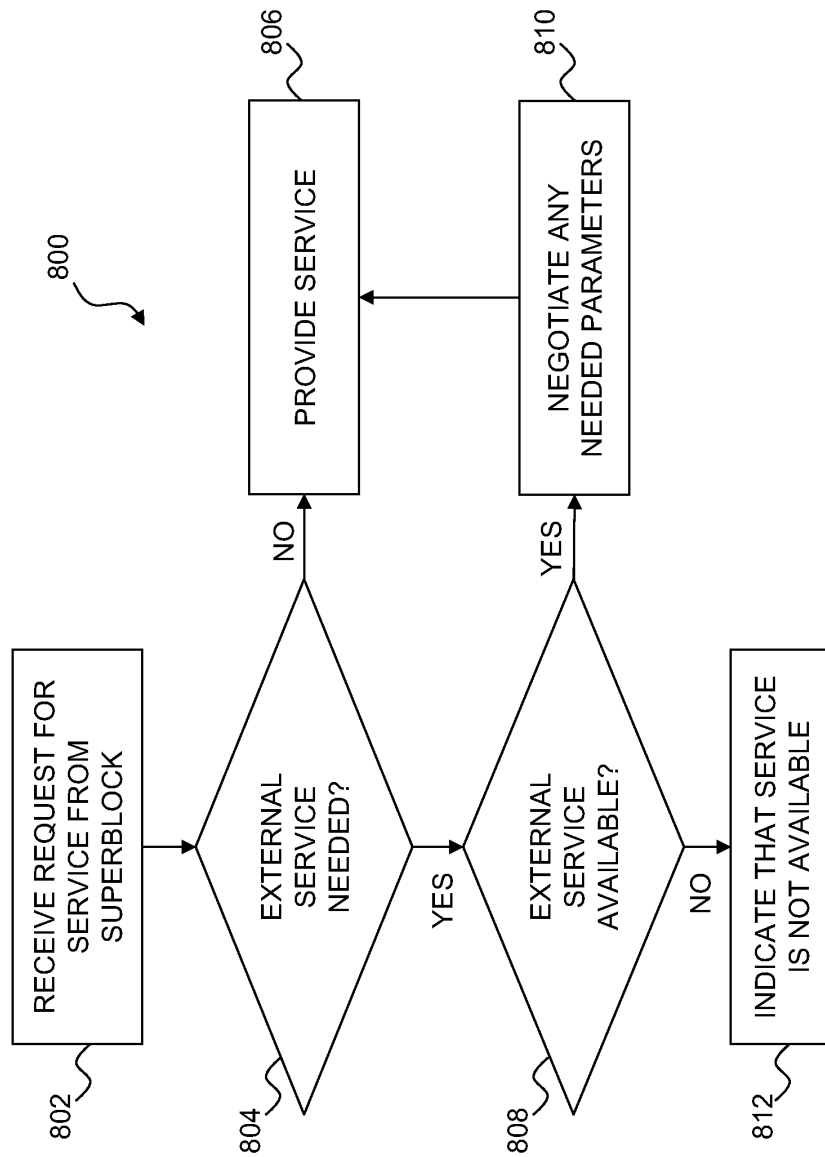


FIG. 8

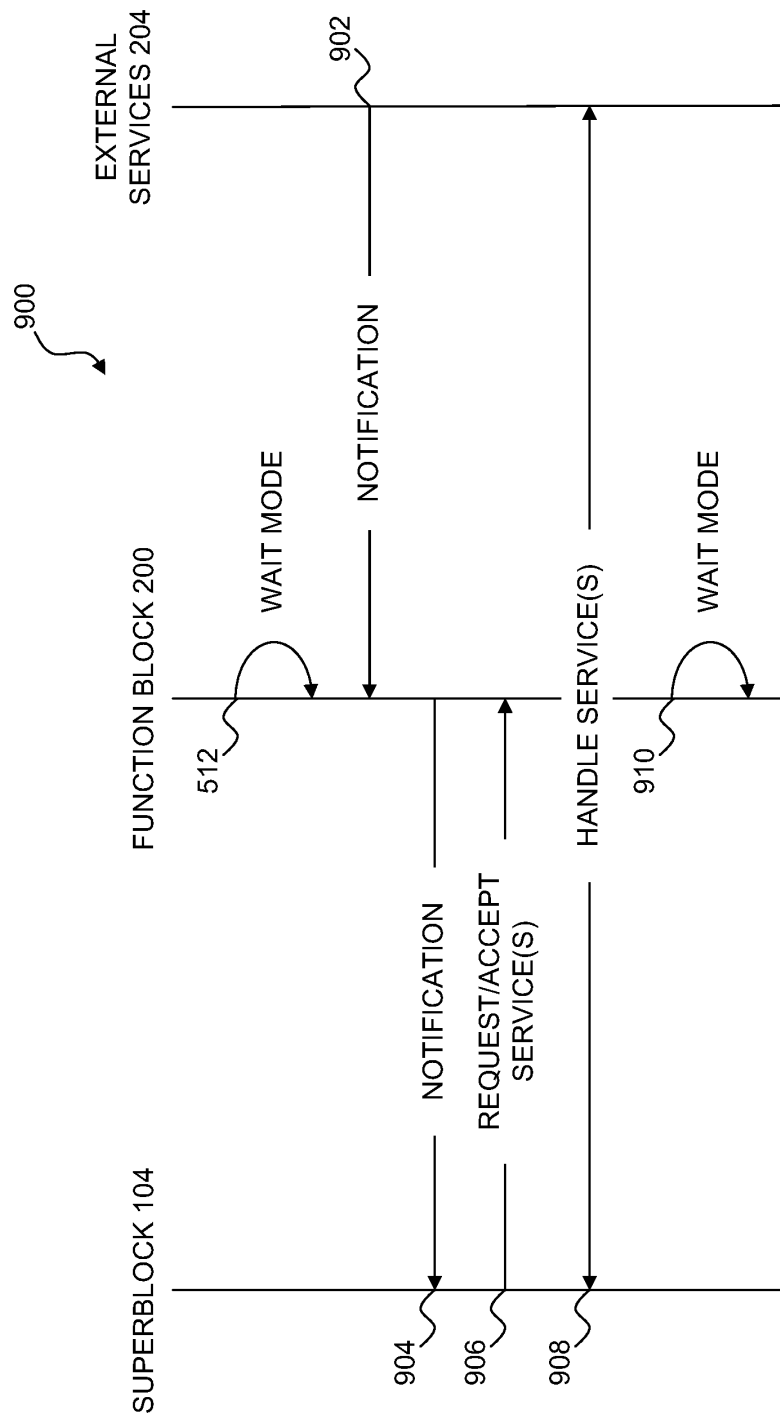
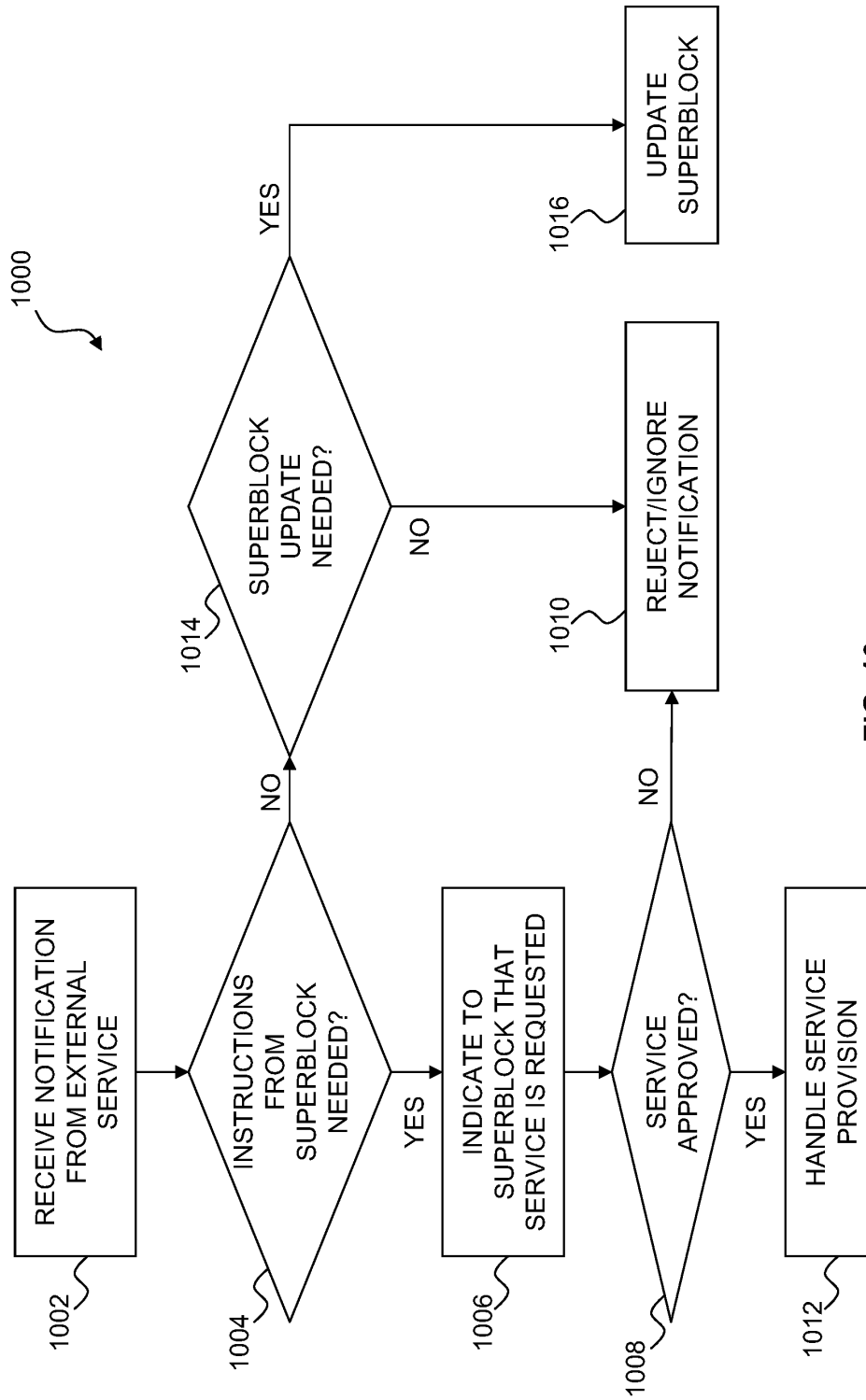


FIG. 9



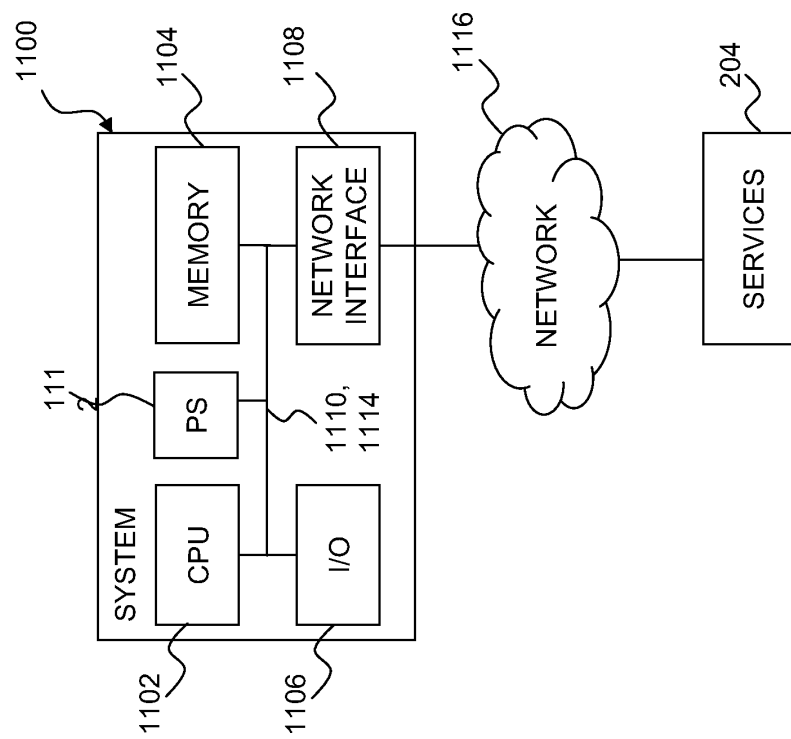


FIG. 11

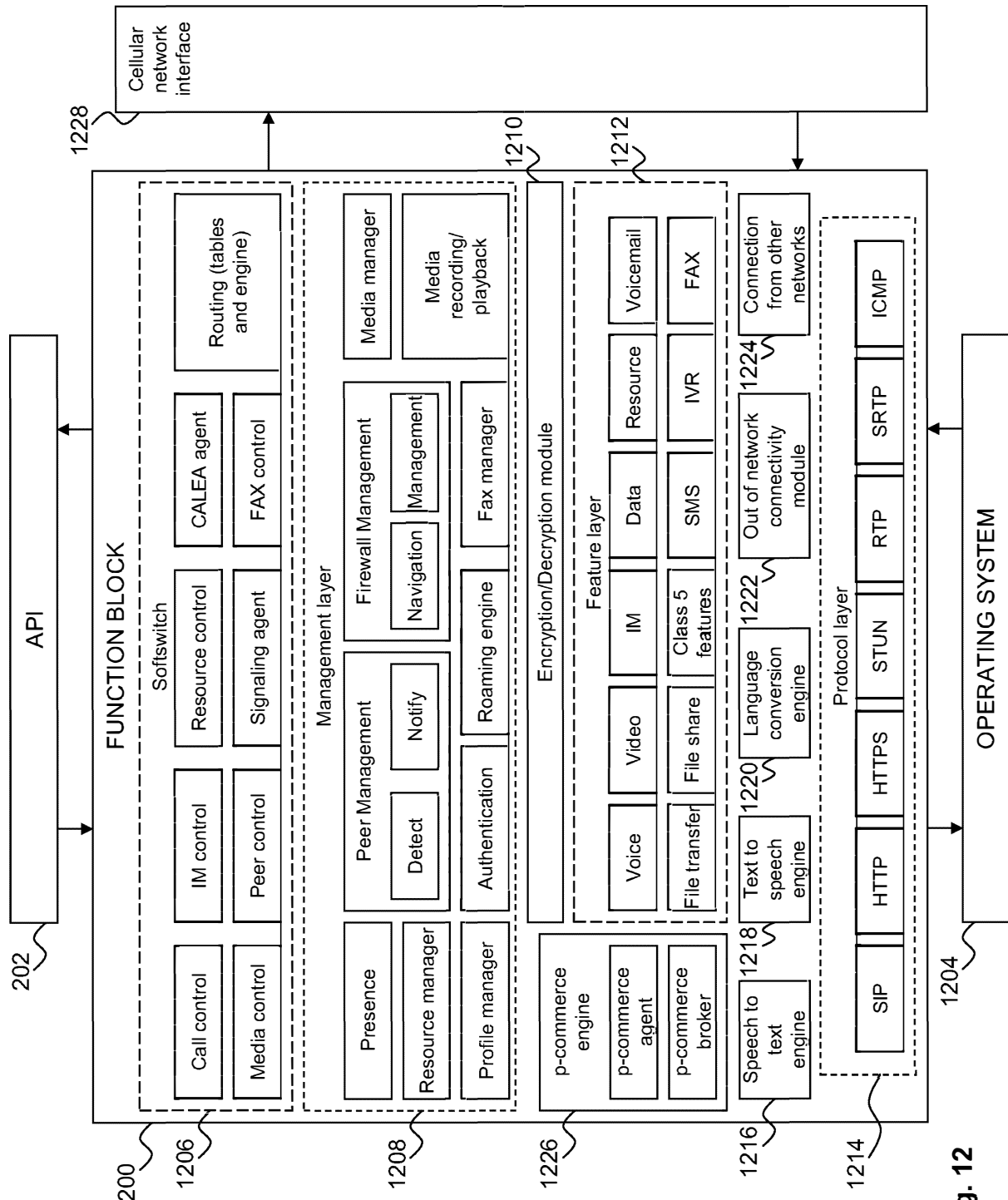


Fig. 12

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

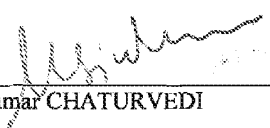
As a below-named inventor, I hereby declare that:

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:


Sivakumar CHATURVEDI

Inventor:

DATE

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
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☒ the application identified by the attorney docket no. and title of invention given above;
☐ United States Application or PCT International Application No. _____, filed _____.

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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.

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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

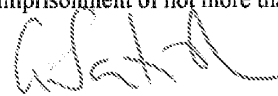
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Signature:


Satish GUNDABATHULA

Inventor:

DATE

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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: _____

Rashmi HIREMATH

DATE

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER		
First Named Inventor/Applicant Name:		Sivakumar Chaturvedi		
Filer:		Keith D. Harden		
Attorney Docket Number:		DAMA60-35686		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY FILING FEE (ELECTRONIC FILING)	4011	1	64	64
UTILITY SEARCH FEE	2111	1	280	280
UTILITY EXAMINATION FEE	2311	1	320	320
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				664

Electronic Acknowledgement Receipt	
EFS ID:	47399076
Application Number:	18099175
International Application Number:	
Confirmation Number:	3720
Title of Invention:	SYSTEM AND METHOD FOR PROVIDING ADDITIONAL FUNCTIONALITY TO EXISTING SOFTWARE IN AN INTEGRATED MANNER
First Named Inventor/Applicant Name:	Sivakumar Chaturvedi
Customer Number:	25883
Filer:	Keith D. Harden
Filer Authorized By:	
Attorney Docket Number:	DAMA60-35686
Receipt Date:	19-JAN-2023
Filing Date:	
Time Stamp:	18:46:50
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$664
RAM confirmation Number	E20231147140083
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	DAM35686ADS.pdf	2278280	no	9
			b5a7963b4737f863f74046aacbd033d930461ef5		
Warnings:					
Information:					
2		DAM35686CONAPP.pdf	164186	yes	33
			795813298e08a624db421a7611ba8660612ae165		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	31	
	Claims		32	32	
	Abstract		33	33	
Warnings:					
Information:					
3	Drawings-only black and white line drawings	DAM35686FRMLDWGS.pdf	63493	no	12
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Warnings:					
Information:					
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Warnings:					
Information:					
5	Oath or Declaration filed	DAM35686ASSMTDECGUNDABATHULAEXE.pdf	70117	no	1
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Warnings:					
Information:					
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Warnings:					
Information:					
7	Fee Worksheet (SB06)	fee-info.pdf	44019	no	2
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Warnings:					
Information:					
Total Files Size (in bytes):			2758875		
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