UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/354,371	03/15/2019	Hao HU	514767US	6524

22850   7590   12/07/2021
OBLON, MCCLELLAND, MAIER & NEUSTADT, L.L.P.
1940 DUKE STREET
ALEXANDRIA, VA 22314

EXAMINER
MYERS, PAUL R

ART UNIT	PAPER NUMBER
2187	

NOTIFICATION DATE	DELIVERY MODE
12/07/2021	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):

OBLONPAT@OBLON.COM
iahmadi@oblon.com
patentdocket@oblon.com

	Application No.	**Applicant(s)**
	16/354,371	HU et al.
Office Action Summary	**Examiner**	**Art Unit**	**AIA (FITF) Status**
	PAUL R MYERS	2187	Yes

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

Period for Reply

 A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
 Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 7/26/21.
  ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
2a)☐ This action is **FINAL.**   2b) ☑ This action is non-final.
3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) _1,3-11 and 13-20_ is/are pending in the application.
  5a) Of the above claim(s) _____ is/are withdrawn from consideration.
6) ☐ Claim(s) _____ is/are allowed.
7) ☑ Claim(s) 1,3-11 and 13-20 is/are rejected.
8) ☐ Claim(s) _____ is/are objected to.
9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined <u>allowable</u>, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.
11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.
  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

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

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

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
  Paper No(s)/Mail Date 7/12/19;4/26/19;3/15/19.

3) ☐ Interview Summary (PTO-413)
  Paper No(s)/Mail Date _____.
4) ☐ Other: _____.

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.

Interference

2. MPEP 2301.03 Interfering subject matter 37 C.F.R. 41.203

(a) Interfering subject matter. An interference exists if the subject matter of a claim of one party would, if prior art, have anticipated or rendered obvious the subject matter of a claim of the opposing party and vice versa.

While no interference has been requested, in reviewing Rathod PN 10,990,265 having

priority to August 1, 2013 it has been found that the Patented claims state:

A method for information processing, comprising:
a) executing, by processing circuitry of a terminal device, a first application program in an operating system, the execution of the first application program providing a running environment for other application programs;
b) executing, by the processing circuitry, a second application program in the running environment that is provided by the execution of the first application program, the execution of the second application program starting a program logic process and a first presentation process corresponding to a first view interface of the second application program, and the program logic process and the first presentation process respectively interfacing with the running environment that is provided by the execution of the first application program;
c) transferring, by the processing circuitry and via the running environment that is provided by the execution of the first application program, initial first interface data of the first view interface from the program logic process that generates the initial first interface data based on first program logic code of the first view interface to the first presentation process, wherein further comprising:
transferring, by the processing circuitry and via the running environment that is provided by the execution of the first application program, updated data for a portion of the first view interface from the program logic process to the first presentation process;
d) rendering, by the processing circuitry and in the first presentation process, the first view interface according to the initial first interface data of the first view interface, wherein further comprising:
re-rendering, by the processing circuitry and in the first presentation process, the portion of the first view interface according to the updated data for the portion of the first view interface; and

e) feeding back, by the processing circuitry and via the running environment that is
provided by the execution of the first application program, a completion notification from the
first presentation process to the program logic process.

The independent claim of the current application having priority to December 05, 2016

states:

A method for information processing, comprising:
executing, by processing circuitry of a terminal device, a first application program in an
operating system, the execution of the first application program providing a running environment
for other application programs;
executing, by the processing circuitry, a second application program in the running
environment that is provided by the execution of the first application program, the execution of
the second application program starting a logic process and a first view process corresponding to
a first view page of the second application program, and the logic process and the first view
process respectively interfacing with the running environment that is provided by the execution
of the first application program;
transferring, by the processing circuitry and via the running environment that is provided
by the execution of the first application program, initial first page data of the first view page
from the logic process that generates the initial first page data based on first logic code of the
first view page to the first view process;
rendering, by the processing circuitry and in the first view process, the first view page
according to the initial first page data of the first view page;
feeding back, by the processing circuitry and via the running environment that is
provided by the execution of the first application program, a completion notification from the
first view process to the logic process:
transferring, by the processing circuitry and via the running environment that is provided
by the execution of the first application program, updated data for a portion of the first view page
from the logic process to the first view process: and
re-rendering, by the processing circuitry and in the first view process, the portion of the
first view page according to the updated data for the portion of the first view page.
.

These claims to different inventive entities claim identical subject matter thus a potential

interference exists.

Claim Rejections - 35 USC § 102

3.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a)(2) the claimed invention was described in a patent issued under section 151, or in an application for patent published or deemed published under section 122(b), in which the patent or application, as the case may be, names another inventor and was effectively filed before the effective filing date of the claimed invention.

4.   Claim(s) 1 is/are rejected under 35 U.S.C. 102(a)(2) as being anticipated by Rathod PN 10,990,265.

In regards to claim 1: Rathod teaches a method for information processing, comprising:

executing, by processing circuitry of a terminal device, a first application program in an operating system, the execution of the first application program providing a running environment for other application programs (Stanza a of claim 1);

executing, by the processing circuitry, a second application program in the running environment that is provided by the execution of the first application program, the execution of the second application program starting a logic process and a first view process corresponding to a first view page of the second application program, and the logic process and the first view process respectively interfacing with the running environment that is provided by the execution of the first application program (Stanza b of claim 1);

transferring, by the processing circuitry and via the running environment that is provided by the execution of the first application program, initial first page data of the first view page from the logic process that generates the initial first page data based on first logic code of the first view page to the first view process (first half of Stanza c of claim 1);

rendering, by the processing circuitry and in the first view process, the first view page according to the initial first page data of the first view page (first half of Stanza d of claim 1);

feeding back, by the processing circuitry and via the running environment that is provided by the execution of the first application program, a completion notification from the first view process to the logic process (Stanza e of Claim 1):

transferring, by the processing circuitry and via the running environment that is provided by the execution of the first application program, updated data for a portion of the first view page from the logic process to the first view process (second half of Stanza c or claim 1): and

re-rendering, by the processing circuitry and in the first view process, the portion of the first view page according to the updated data for the portion of the first view page (second half of Stanza d of claim 1).

In regards to claim 3: Rathod teaches these limitation see claim 2.

In regards to claim 4: Rathod teaches these limitation see claim 3.

In regards to claim 5: Rathod teaches these limitation see claim 4,

In regards to claim 6: Rathod teaches these limitation see claim 5.

In regards to claim 7: Rathod teaches these limitation see claim 6.

In regards to claim 8: Rathod teaches these limitation see claim 7.

In regards to claim 9: Rathod teaches these limitation see claim 8.

In regards to claim 10: Rathod teaches these limitation see claim 9.

In regards to claim 11: Rathod teaches these limitation see claim 10.

In regards to claim 13: Rathod teaches these limitation see claim 11.

In regards to claim 14: Rathod teaches these limitation see claim 12.

In regards to claim 15: Rathod teaches these limitation see claim 13.

In regards to claim 16: Rathod teaches these limitation see claim 14.

In regards to claim 17: Rathod teaches these limitation see claim 15.

In regards to claim 18: Rathod teaches these limitation see claim 16.

In regards to claim 19: Rathod teaches these limitation see claim 17.

In regards to claim 20: Rathod teaches these limitation see claim 18.

Claim Rejections - 35 USC § 103

5.   The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness

rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not
> identically disclosed as set forth in section 102, if the differences between the claimed invention and the
> prior art are such that the claimed invention as a whole would have been obvious before the effective
> filing date of the claimed invention to a person having ordinary skill in the art to which the claimed
> invention pertains. Patentability shall not be negated by the manner in which the invention was made.

6.   Claim 1 is/are rejected under 35 U.S.C. 103 as being unpatentable over Sandman Jr. PN

2013/0042201.

In regards to claim 1: Sandman, Jr. et al teaches executing a first application/host

application such as a web browser 210 figure 2 (Para [0018]) providing a runtime environment

(Para [0016]) executing a second application (client application Para [0018]) in the web browser

and displaying the page (Para [0016]) transferring (since the client application determines what

to display and the host application displays it the transfer is implied.) the page data to the

browser to display "the host application displays the page" (Para [0018]) rendering the first view

of the first page the web page displays (Para [0016]). Sandman Jr. et al teaches multiple different

display requests (Para [0026]) "resizing request" this is a change thus an update.

 While Sandman Jr. et al displays the page information and the client generates a request to

display the information (Para [0041]), Sandman Jr. et al doesn't actually state that the request is

provided a completion indication. Official notice is taken that a completion/done/finished

indication to requests are so common as to be almost ubiquitous. It would have been obvious to

a person of ordinary skill in the art to return a done indication to the request because this is a

standard way of indicating completion.

Conclusion

7.   The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

        Multiple references are cited that teach a web browser/client application interface

providing a running/runtime environment including an application/script running on the web

browser/interface such as a flash player game the flash player game/script rendering on the web

page and updating the page based upon the user inputs.

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

examiner should be directed to PAUL R MYERS whose telephone number is (571)272-3639.

The examiner can normally be reached M-F telework W arrive 7-8 leave 4-5.

        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.

        If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Abbaszadeh Jaweed can be reached on 571-270-1640. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

        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.

/Paul R. MYERS/
Primary Examiner, Art Unit 2187

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-5944784-A	08-1999	Simonoff; Adam J.	G06F9/545	709/203
*	B	US-6560604-B1	05-2003	Fascenda; Anthony C.	G06F9/44505	707/999.01
*	C	US-20050223392-A1	10-2005	Cox, Burke David	G06Q10/06	719/328
*	D	US-7275086-B1	09-2007	Bodnar; Eric O.	G06F9/542	709/218
*	E	US-7325204-B2	01-2008	Rogers; Rachel Johnston	G06F3/0481	715/792
*	F	US-20080222660-A1	09-2008	Tavi; Jari	G06F9/54	719/320
*	G	US-20090282401-A1	11-2009	TODOROVA; MARIELA	G06F8/61	717/175
*	H	US-20110173239-A1	07-2011	SAYED; Imran Q.	G06F11/3414	707/821
*	I	US-20120066675-A1	03-2012	SHELANSKY; Andrew R.	G06F9/44526	717/178
*	J	US-20120278750-A1	11-2012	Abraham; Binu	G06F9/451	715/779
*	K	US-20130042201-A1	02-2013	Sandman, JR.; James G.	G06F9/541	715/781
*	L	US-20130239089-A1	09-2013	Eksten; Brick	G06F8/20	717/120
*	M	US-20190065216-A1	02-2019	Kohn; David	G06F16/2365	1/1

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-10310723-B2	06-2019	Rathod; Yogesh Chunilal	G06F9/451	1/1
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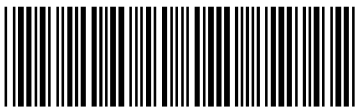
FOREIGN PATENT DOCUMENTS

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	S					
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NON-PATENT DOCUMENTS

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

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/354,371	HU et al.
	Examiner	Art Unit
	PAUL R MYERS	2187

CPC - Searched*		
Symbol	Date	Examiner
G06F9/44505;G06F9/44521;G06F9/44578;G06F9/542	12/01/2021	PRM

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
713	1	12/01/2021	PRM

* 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
East Searched	12/01/2021	PRM
East Searched	12/02/2021	PRM

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

	Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
		16/354,371	HU et al.
		Examiner	Art Unit
		PAUL R MYERS	2187

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	16/354371	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 12:56
L2	6,140	713/1.ccls.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 12:57
L3	9,008	g06f9/44505.cpc.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 12:57
L4	2,910	g06f9/44521.cpc.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 12:57
L5	178	g06f9/44578.cpc.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 12:57
L6	9,454	g06f9/542.cpc.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 12:57
L7	1	"10990265".pn.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 12:58
L8	5,770	tencent.as.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:02
L9	1	l2 and l8	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:02
L10	33	l8 and (l3 or l4 or l5)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:02
L11	13	page and l10	US-PGPUB;	ADJ	OFF	2021/12/01 13:03

			USPAT; USOCR			
L12	3,832,136	environment	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:09
L13	1	l12 and l7	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:10
L14	0	1-310723.pn.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:11
L15	1	"10310723".pn.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:11
L16	1	l12 and l15	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:13
L17	0	page data and l16	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:15
L18	0	page near4 data and l16	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:15
L19	1	page near4 data and l13	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:15
L20	1	page data and l1	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:17
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L22	45	l21 and (l3 or l4 or l5)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:19

L23	31	(page or view) and l22	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:19
L24	14	l12 and l23	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:20
L25	1	render$4 and l20	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:22
L26	0	l21 and l1	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:25
L27	1	l12 and l25	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:28
L28	3,882	running environment	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:37
L29	79	l28 and (l3 or l4 or l5)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:38
L30	103	(provid$4 or identif$4) near3 l28	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:39
L31	12	l30 and (l3 or l4 or l5)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:39
L32	0	cloud and l1	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:40
L33	1	service and l1	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:46
L34	1	virtual and l1	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:48

L35	1,077	(application or software or program) near6 l28	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:49
L36	39	l35 and (l3 or l4 or l5)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:49
L37	0	java and l1	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:50
L38	39	(render$4 or draw$4 or display$4) and l36	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:59
L39	1	(render$4 or draw$4 or display$4) and l7	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 14:04
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Form PTO 1449 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO. 514767US		SERIAL NO. 16/354,371
		INVENTOR(S) Hao HU, et al.		
LIST OF REFERENCES CITED BY APPLICANT		FILING DATE March 15, 2019		GROUP 2143

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	NO
	AO					
	AP					
	AQ					
	AR					
	AS					
	AT					
	AU					
	AV					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AW	Chinese Office Action Issued on June 20, 2019 in Application No. 201611104220.4 with partial English Translation.
	AX	"Teaching you to understand WeChat's Mini Programs' Life Cycle and Operating Principles", 2 pages, November 11, 2016.
	AY	"What is the Essence of WeChat Mini Program? Hybrid App", 1 page, November 22, 2016.
	AZ	☐ Additional References sheet(s) attached

Examiner	/Paul R. MYERS/	Date considered	12/01/2021

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.R.M/

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1,069,641	(java or linux or running environment or scripting language or web service or browser)	US-PGPUB; USPAT; USOCR	ADJ	ON	2021/12/02 07:16
L2	879,574	(app or application or program or software) same l1	US-PGPUB; USPAT; USOCR	ADJ	ON	2021/12/02 07:17
L3	1	"10990265".pn.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/02 07:17
L4	1	l2 and l3	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/02 07:17
L5	9,024	g06f9/44505.cpc.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/02 07:19
L6	2,913	g06f9/44521.cpc.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/02 07:20
L7	178	g06f9/44578.cpc.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/02 07:20
L8	9,475	g06f9/542.cpc.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/02 07:20
L9	21,036	l5 or l6 or l7 or l8	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/02 07:20
L10	11,007	l2 and l9	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/02 07:20
L11	259,298	(render$4 or draw$4 or display$4) near4 page	US-PGPUB;	ADJ	ON	2021/12/02 07:21

			USPAT; USOCR			
L12	1,444	l10 and l11	US-PGPUB; USPAT; USOCR	ADJ	ON	2021/12/02 07:23
L13	1,000	web browser and l12	US-PGPUB; USPAT; USOCR	ADJ	ON	2021/12/02 07:23
L14	8	flash player and l13	US-PGPUB; USPAT; USOCR	ADJ	ON	2021/12/02 07:24
L15	327	client application and l13	US-PGPUB; USPAT; USOCR	ADJ	ON	2021/12/02 07:27
L16	16	("20030033443" | "20060005187" | "20060230105" | "20080295022" | "20100274910" | "5734380" | "5922044" | "6658419" | "6864905" | "7213213" | "7325204" | "8191086" | "8234640" | "8321932").PN. OR ("8812975").URPN.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/02 07:28
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L18	8	web browser and l16	US-PGPUB; USPAT; USOCR	ADJ	ON	2021/12/02 07:28
L19	2	client application and l18	US-PGPUB; USPAT; USOCR	ADJ	ON	2021/12/02 07:28
L20	896	web browser same flash player	US-PGPUB; USPAT; USOCR	ADJ	ON	2021/12/02 07:30
L21	12	l9 and l20	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/02 07:30
L22	39,913	web browser same client application	US-PGPUB; USPAT; USOCR	ADJ	ON	2021/12/02 07:34

L23	138	l15 and l22	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/02 07:35
L24	1,342	client application interface	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/02 07:39
L25	82,220	(second or sub) application	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/02 07:40
L26	0	l24 same l25	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/02 07:41
L27	68	l24 and l25	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/02 07:41
L28	1	16/354371	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/02 07:45
L29	0	browser and l28	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/02 07:45
L30	0	web and l28	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/02 07:46

EAST Search History

EAST Search History (Prior Art)

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L3	9,008	g06f9/44505.cpc.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 12:57
L4	2,910	g06f9/44521.cpc.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 12:57
L5	178	g06f9/44578.cpc.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 12:57
L6	9,454	g06f9/542.cpc.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 12:57
L7	1	"10990265".pn.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 12:58
L8	5,770	tencent.as.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:02
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L12	3,832,136	environment	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:09
L13	1	l12 and l7	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:10
L14	0	1-310723.pn.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:11
L15	1	"10310723".pn.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:11
L16	1	l12 and l15	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:13
L17	0	page data and l16	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:15
L18	0	page near4 data and l16	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:15
L19	1	page near4 data and l13	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:15

L20	1	page data and l1	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:17
L21	3,610	wechat	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:18
L22	45	l21 and (l3 or l4 or l5)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:19
L23	31	(page or view) and l22	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:19
L24	14	l12 and l23	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:20
L25	1	render$4 and l20	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:22
L26	0	l21 and l1	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:25
L27	1	l12 and l25	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:28
L28	3,882	running environment	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:37
L29	79	l28 and (l3 or l4 or l5)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:38
L30	103	(provid$4 or identif$4) near3 l28	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:39
L31	12	l30 and (l3 or l4 or l5)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:39
L32	0	cloud and l1	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:40
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L34	1	virtual and l1	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:48
L35	1,077	(application or software or program) near6 l28	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:49
L36	39	l35 and (l3 or l4 or l5)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:49
L37	0	java and l1	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:50
L38	39	(render$4 or draw$4 or display$4) and l36	US-PGPUB; USPAT; USOCR	ADJ	OFF	2021/12/01 13:59

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THIRD-PARTY SUBMISSION UNDER 37 CFR 1.290	Application Number	16354371

U.S. PATENTS

Cite No	Patent Number	Kind Code[1]	Issue Date (YYYY-MM-DD)	First Named Inventor
1	10990265	B2	2021-04-27	Yogesh Rathod

U.S. PATENT APPLICATION PUBLICATIONS

Cite No	Publication Number	Kind Code[1]	Publication Date (YYYY-MM-DD)	First Named Inventor

FOREIGN PATENTS AND PUBLISHED FOREIGN PATENT APPLICATIONS

Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[1]	Publication Date (YYYY-MM-DD)	Applicant, Patentee or First Named Inventor	T[5]
						☐

NON-PATENT PUBLICATIONS (e.g., journal article, Office action)

Cite No	Author (if any), title of the publication, page(s) being submitted, publication date, publisher (where available), place of publication (where available).	T[5]	E[6]

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.R.M/

THIRD-PARTY SUBMISSION UNDER 37 CFR 1.290	Application Number	16354371

			☐	☐

STATEMENTS

The party making the submission is not an individual who has a duty to disclose information with respect to the above-identified application under 37 CFR 1.56.

This submission complies with the requirements of 35 U.S.C. 122(e) and 37 CFR 1.290.

☐ The fee set forth in 37 CFR 1.290(f) has been submitted herewith.

☒ The fee set forth in 37 CFR 1.290(f) is not required because this submission lists three or fewer total items and, to the knowledge of the person signing the statement after making reasonable inquiry, this submission is the first and the only submission under 35 U.S.C 122(e) filed in the above-identified application by the party making the submission or by a party in privity with the party.

☐ This resubmission is being made responsive to a notification of non-compliance issued for an earlier filed third-party submission. The corrections in this resubmission are limited to addressing the non-compliance. As such, the party making this resubmission: (1) requests that the Office apply the previously-paid fee set forth in 37 CFR 1.290(f), or (2) states that no fee is required to accompany this resubmission as the undersigned is again making the fee exemption statement set forth in 37 CFR 1.290(g).

Signature	/Yogesh Rathod/	
Name/Print	Yogesh Rathod	Registration Number (if applicable)

Examiner Signature	/Paul R. MYERS/	Date Considered	12/01/2021

*EXAMINER: Signature indicates all documents listed above have been considered,except for citations through which a line is drawn. Draw line through citation if not considered. Include a copy of this form with next communication to applicant. 1. If known, enter kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16. See MPEP 901.04(a). 2. Enter the country or patent office that issued the document, by two-letter code under WIPO standard ST.3. See MPEP 1851. 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. If known, enter the kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 . See MPEP 901.04(a). 5. Check mark indicates translation attached. 6. Check mark indicates evidence of publication attached.

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Form PTO 1449 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO. 514767US	SERIAL NO. 16/354,371
LIST OF REFERENCES CITED BY APPLICANT		INVENTOR(S) Hao HU, et al.	
		FILING DATE March 15, 2019	GROUP 2143

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	NO
	AO					
	AP					
	AQ					
	AR					
	AS					
	AT					
	AU					
	AV					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AW	Chinese Office Action Issued on April 18, 2019 in Chinese Patent Application No.201611104220.4 with Concise English Translation.
	AX	"WeChat Small Process Principle", https://www.jianshu.com/p/fe7a8737680f, November 15, 2016.
	AY	
	AZ	☐ Additional References sheet(s) attached
Examiner /Paul R. MYERS/		Date considered 12/01/2021

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