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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/042,159	11/30/2021	11188400	SVIPGP061H	9106

92045 7590 11/10/2021

The Caldwell Firm, LLC
PO Box 59655
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Dallas, TX 75229

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

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 Application Information Retrieval (PAIR) WEB site (http://pair.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 PAIR WEB site http://pair.uspto.gov for additional inventors):

Axel Fuchs, San Jose, CA;
Scott Sturges Andrews, Petaluma, CA;

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

Stragent, LLC, Longview, TX;

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IR103 (Rev. 10/09)

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/042,159	07/23/2018	Axel Fuchs	SVIPGP061H	9106

92045 7590 10/13/2021

The Caldwell Firm, LLC
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EXAMINER	
ANYA, CHARLES E	

ART UNIT	PAPER NUMBER
2194	

NOTIFICATION DATE	DELIVERY MODE
10/13/2021	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):

caldwelldocketing@gmail.com
eofficeaction@appcoll.com
pcaldwell@thecaldwellfirm.com

Corrected ***Notice of Allowability***	**Application No.** 16/042,159	**Applicant(s)** Fuchs et al.	
	Examiner CHARLES E ANYA	**Art Unit** 2194	**AIA (FITF) Status** No

-- 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 the IDSs of 10/01/21 and 09/28/21.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

3. ☑ The allowed claim(s) is/are 1-33 . 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 10/01/21; 09/28/21.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/CHARLES E ANYA/
Primary Examiner, Art Unit 2194

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	**Art Unit**
	CHARLES E ANYA	2194

CPC						
Symbol					**Type**	**Version**
G06F	/	9	/	546	F	2013-01-01
G06F	/	9	/	542	I	2013-01-01
G06F	/	9	/	545	I	2013-01-01
G06F	/	9	/	54	I	2013-01-01
H04L	/	43	/	04	I	2013-01-01
H04L	/	43	/	06	I	2013-01-01
H04L	/	43	/	08	I	2013-01-01
H04L	/	67	/	02	I	2013-01-01
H04L	/	67	/	12	I	2013-01-01
B60R	/	16	/	0231	I	2013-01-01
H04L	/	43	/	10	I	2013-01-01
H04L	/	67	/	10	I	2013-01-01
G06F	/	2209	/	547	A	2013-01-01
H04L	/	65	/	102	A	2013-01-01

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

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	33	
/CHARLES E ANYA/ Primary Examiner, Art Unit 2194	06 October 2021	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	10

U.S. Patent and Trademark Office — Part of Paper No.: 20211006

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	**Art Unit**
	CHARLES E ANYA	2194

INTERNATIONAL CLASSIFICATION				
CLAIMED				
G06F9/54	/	9	/	54
H04L12/26	/	12	/	26
H04L29/08	/	29	/	08
B60R16/023	/	16	/	023
CPCONLY	/	NLY	/	
H04L29/06	/	29	/	06

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

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

NONE (Assistant Examiner) (Date)	**Total Claims Allowed:** 33	
/CHARLES E ANYA/ Primary Examiner, Art Unit 2194 (Primary Examiner) 06 October 2021 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 10

U.S. Patent and Trademark Office Part of Paper No.: 20211006

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	Art Unit
	CHARLES E ANYA	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	1	10	10	32	19	21	28								
2	2	11	11	33	20	22	29								
3	3	12	12	14	21	23	30								
4	4	13	13	15	22	24	31								
5	5	27	14	16	23	25	32								
6	6	28	15	17	24	26	33								
7	7	29	16	18	25										
8	8	30	17	19	26										
9	9	31	18	20	27										

NONE (Assistant Examiner)	(Date)	Total Claims Allowed: 33	
/CHARLES E ANYA/ Primary Examiner, Art Unit 2194 (Primary Examiner)	06 October 2021 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 10

U.S. Patent and Trademark Office Part of Paper No.: 20211006

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	Art Unit
	CHARLES E ANYA	2194

CPC - Searched*		
Symbol	Date	Examiner
(G06F9/542 G06F9/545 G06F9/546 H04L43/10 H04L67/10 B60R16/023)	09/26/2021	ca

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
The group/subgroup search is limited by text search	12/18/2019	ca
Inventor Search	12/18/2019	ca
West (G06F9/542 G06F9/545 G06F9/546 H04L43/10 H04L67/10 B60R16/023)	12/18/2019	ca
Inventor Search	06/02/2020	ca
(G06F9/542 G06F9/545 G06F9/546 H04L43/10 H04L67/10 B60R16/023)	06/02/2020	ca
IDS considered	09/20/2020	ca
IDS considered	10/06/2021	ca

/CHARLES E ANYA/ Primary Examiner, Art Unit 2194	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	Art Unit
	CHARLES E ANYA	2194

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
(G06F9/542 G06F9/545 G06F9/546 H04L43/10 H04L67/10 B60R16/023)		09/26/2021	ca

/CHARLES E ANYA/ Primary Examiner, Art Unit 2194	

WEST Search History for Application 16042159

Creation Date: 2021100619:40

Interference Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
(((((((((G06F9/542))))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231)))))))).cpc.	PGPB	34591	OR	YES		10-06-2021
(bb or bulletin adj board or storage) with availab $ 6 with sensor	PGPB	2866	OR	YES		10-06-2021
((bb or bulletin adj board or storage) with availab $ 6 with sensor) and (((((((((G06F9/542))))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231)))))))).cpc.)	PGPB	149	OR	YES		10-06-2021
((bb or bulletin adj board or storage) with availab $ 6 with sensor and (((((((((G06F9/542))))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231)))))))).cpc.) and @ ad < 20021217	PGPB	0	OR	YES		10-06-2021
(request $ 3 call invocation invok $ 3 query $ 3 message) with (sensor with resource)	PGPB	1776	OR	YES		10-06-2021
((request $ 3 call invocation invok $ 3 query $ 3 message) with (sensor with resource)) and (((((((((G06F9/542))))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231)))))))).cpc.)	PGPB	113	OR	YES		10-06-2021
((request $ 3 call invocation invok $ 3 query $ 3 message) with (sensor with resource) and (((((((((G06F9/542))))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231)))))))).cpc.) and @ ad < 20021217	PGPB	0	OR	YES		10-06-2021
(request $ 3 or messag $ 3 or query $ 3) with (storage memory) with ((timer or time $ 1out or watchdog) and availab $ 6)	PGPB	745	OR	YES		10-06-2021
	PGPB	31	OR	YES		10-06-2021

((request $ 3 or messag $ 3 or query $ 3) with (storage memory) with ((timer or time $ 1out or watchdog) and availab $ 6)) and (((((((((G06F9/542))))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.)						
((request $ 3 or messag $ 3 or query $ 3) with (storage memory) with ((timer or time $ 1out or watchdog) and availab $ 6) and (((((((((G06F9/542))))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.) and @ ad < 20021217	PGPB	0	OR	YES		10-06-2021

Prior Art Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
("20030223436" | "5202887" | "5469150" | "5794164" | "6292862" | "6625169" | "6657252" | "6871250" | "6934612").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	26	OR	YES		10-06-2021
10248477.PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6	OR	YES		10-06-2021
10031790.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		10-06-2021
10002036.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	4	OR	YES		10-06-2021

	TDBD					
9575817.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		10-06-2021
8566843.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		10-06-2021
8209705.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3	OR	YES		10-06-2021
7802263.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		10-06-2021
10031790.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		10-06-2021
100020360.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		10-06-2021
10020360.pn.	PGPB, USPT, USOC,	7	OR	YES		10-06-2021

	EPAB, JPAB, DWPI, TDBD					
100020360.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		10-06-2021
10002036.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		10-06-2021
9575817.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		10-06-2021
8566843.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		10-06-2021
8209705.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3	OR	YES		10-06-2021
7802263.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		10-06-2021

"FUCHS-AXEL"!	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	60	OR	YES		10-06-2021
"FUCHS-AXEL"!	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	60	OR	YES		10-06-2021
"ANDREWS-SCOTT-STURGES"!	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	25	OR	YES		10-06-2021
(((((((((G06F9/542))))))))) (((((((((G06F9/545))))))))) (((((((((G06F9/546))))))))) (((((((((H04L43/10))))))))) (((((((((H04L67/10))))))))) (((((((((B60R16/0231)))))))))).cpc.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	102244	OR	YES		10-06-2021
((request or message or query) and (storage near availab$6)).ab, ti.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	889	OR	YES		10-06-2021
(bulletin near board or "bb") and (((request or message or query) and (storage near availab$6)).ab, ti.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	84	OR	YES		10-06-2021
((bulletin near board or "bb") and ((request or message or query) and (storage near availab$6)).ab, ti.) and @ad<20021217	PGPB, USPT, USOC, EPAB,	10	OR	YES		10-06-2021

	JPAB, DWPI, TDBD					
(bulletin near board or "bb").ab, ti.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	40314	OR	YES		10-06-2021
(bb or bulletin adj board or storage) with availab$6	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	440023	OR	YES		10-06-2021
((bulletin near board or "bb").ab, ti.) and ((bb or bulletin adj board or storage) with availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	419	OR	YES		10-06-2021
((bulletin near board or "bb").ab, ti. and (bb or bulletin adj board or storage) with availab$6) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	112	OR	YES		10-06-2021
(((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.) and ((bulletin near board or "bb").ab, ti. and (bb or bulletin adj board or storage) with availab$6 and @ad<20021217)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		10-06-2021
((bb or bulletin adj board or storage) with availab$6) and (motor or vehicle or automobile or automotive or ecu)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	126227	OR	YES		10-06-2021
		16143	OR	YES		10-06-2021

((bb or bulletin adj board or storage) with availab$6 and (motor or vehicle or automobile or automotive or ecu)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
(((request or message or query) and (storage near availab$6)).ab, ti.) and ((bb or bulletin adj board or storage) with availab$6 and (motor or vehicle or automobile or automotive or ecu) and @ad<20021217)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3	OR	YES		10-06-2021
((bb or bulletin adj board or storage) with availab$6 and (motor or vehicle or automobile or automotive or ecu) and @ad<20021217) and ((((((((((G06F9/542)))))))) (((((((((G06F9/545)))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	63	OR	YES		10-06-2021
(shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	723	OR	YES		10-06-2021
((shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	217	OR	YES		10-06-2021
((shared or common) near memory with (timer or time$1out or watchdog) and @ad<20021217) and (request$3 or messag$3) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	41	OR	YES		10-06-2021
(request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB,	128	OR	YES		10-06-2021

	JPAB, DWPI, TDBD					
((request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		10-06-2021
(direct adj memory adj access or dma) with (timer or time$1out)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6357	OR	YES		10-06-2021
((direct adj memory adj access or dma) with (timer or time$1out)) and (shared or common) near memory with (request$3 or memory or access$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	833	OR	YES		10-06-2021
((direct adj memory adj access or dma) with (timer or time$1out) and (shared or common) near memory with (request$3 or memory or access$3)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	317	OR	YES		10-06-2021
((direct adj memory adj access or dma) with (timer or time$1out) and (shared or common) near memory with (request$3 or memory or access$3) and @ad<20021217) and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	74	OR	YES		10-06-2021
(shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	125	OR	YES		10-06-2021
		27	OR	YES		10-06-2021

((shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
availab$7 with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	29208	OR	YES		10-06-2021
(availab$7 with (timer or time$1out or watchdog)) and (shared or common) near memory	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1433	OR	YES		10-06-2021
(availab$7 with (timer or time$1out or watchdog) and (shared or common) near memory) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	371	OR	YES		10-06-2021
(availab$7 with (timer or time$1out or watchdog) and (shared or common) near memory and @ad<20021217) and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	116	OR	YES		10-06-2021
(request$3 or messag$3 or query$3) with (shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	18	OR	YES		10-06-2021
(request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB,	128	OR	YES		10-06-2021

	JPAB, DWPI, TDBD					
((request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		10-06-2021
(shared or common) near memory with availab$6	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6964	OR	YES		10-06-2021
((shared or common) near memory with availab$6) and (motor or vehicle or automobile or automotive or ecu)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	694	OR	YES		10-06-2021
((shared or common) near memory with availab$6 and (motor or vehicle or automobile or automotive or ecu)) and ((((((((((G06F9/542)))))))) (((((((((G06F9/545)))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	38	OR	YES		10-06-2021
((shared or common) near memory with availab$6 and (motor or vehicle or automobile or automotive or ecu) and ((((((((G06F9/542)))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1	OR	YES		10-06-2021
((((((((G06F9/542)))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.	PGPB	34591	OR	YES		10-06-2021
(bb or bulletin adj board or storage or((shared or common) near memory)) with availab$6	PGPB	213600	OR	YES		10-06-2021

((((((((((G06F9/542))))))))) ((((((((G06F9/545)))))))) ((((((((G06F9/546)))))))) ((((((((H04L43/10)))))))) ((((((((H04L67/10)))))))) ((((((((B60R16/0231)))))))).cpc.) and ((bb or bulletin adj board or storage or((shared or common) near memory)) with availab$6)	PGPB	5857	OR	YES		10-06-2021
((((((((((G06F9/542))))))))) ((((((((G06F9/545)))))))) ((((((((G06F9/546)))))))) ((((((((H04L43/10)))))))) ((((((((H04L67/10)))))))) ((((((((B60R16/0231)))))))).cpc. and (bb or bulletin adj board or storage or((shared or common) near memory)) with availab$6) and (motor or vehicle or automobile or automotive or ecu)	PGPB	1663	OR	YES		10-06-2021
((((((((((G06F9/542))))))))) ((((((((G06F9/545)))))))) ((((((((G06F9/546)))))))) ((((((((H04L43/10)))))))) ((((((((H04L67/10)))))))) ((((((((B60R16/0231)))))))).cpc. and (bb or bulletin adj board or storage or((shared or common) near memory)) with availab$6 and (motor or vehicle or automobile or automotive or ecu)) and @ad<20021217	PGPB	17	OR	YES		10-06-2021
(5941947 5230051 5388189 5513324 5737529 5923846 6128315 6185466 6430607 6438632 6941510 6363427 6725348 7950017 5265250 5666485).pn.	USPT	16	OR	YES		10-06-2021
20010018685 20020032856 20020191543 20020002586 20020047868 20030154116 20030236894 20030088568 20020198943 20020159460 20020188691 20030061388 20030074474 20040003087 20060155907 20060155867 20070101206 20100333096 20110047218 20110047310 20120029898 20130111299	PGPB	24	OR	YES		10-06-2021
20020073243	PGPB	2	OR	YES		10-06-2021
(7552410 5956489 6289390 6378001 6801942 6034970 7103045 7103646 7103656 5588002).pn.	USPT	10	OR	YES		10-06-2021
(6141710 6484082 7552440).pn.	USPT	3	OR	YES		10-06-2021
((5941947 5230051 5388189 5513324 5737529 5923846 6128315 6185466 6430607 6438632 6941510 6363427 6725348 7950017 5265250 5666485).pn.) or (20010018685 20020032856 20020191543 20020002586 20020047868 20030154116 20030236894 20030088568 20020198943 20020159460 20020188691	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD,	55	OR	YES		10-06-2021

20030061388 20030074474 20040003087 20060155907 20060155867 20070101206 20100333096 20110047218 20110047310 20120029898 20130111299) or (20020073243) or ((7552410 5956489 6289390 6378001 6801942 6034970 7103045 7103646 7103656 5588002).pn.) or ((6141710 6484082 7552440).pn.)	FPRS					
((5941947 5230051 5388189 5513324 5737529 5923846 6128315 6185466 6430607 6438632 6941510 6363427 6725348 7950017 5265250 5666485).pn. or 20010018685 20020032856 20020191543 20020002586 20020047868 20030154116 20030236894 20030088568 20020198943 20020159460 20020188691 20030061388 20030074474 20040003087 20060155907 20060155867 20070101206 20100333096 20110047218 20110047310 20120029898 20130111299 or 20020073243 or (7552410 5956489 6289390 6378001 6801942 6034970 7103045 7103646 7103656 5588002).pn. or (6141710 6484082 7552440).pn.) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	43	OR	YES		10-06-2021
(shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	723	OR	YES		10-06-2021
((shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	217	OR	YES		10-06-2021
((shared or common) near memory with (timer or time$1out or watchdog) and @ad<20021217) and (request$3 or messag$3) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	41	OR	YES		10-06-2021
(request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB,	128	OR	YES		10-06-2021

	JPAB, DWPI, TDBD					
((request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		10-06-2021
(direct adj memory adj access or dma) with (timer or time$1out)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6357	OR	YES		10-06-2021
((direct adj memory adj access or dma) with (timer or time$1out)) and (shared or common) near memory with (request$3 or memory or access$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	833	OR	YES		10-06-2021
((direct adj memory adj access or dma) with (timer or time$1out) and (shared or common) near memory with (request$3 or memory or access$3)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	317	OR	YES		10-06-2021
((direct adj memory adj access or dma) with (timer or time$1out) and (shared or common) near memory with (request$3 or memory or access$3) and @ad<20021217) and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	74	OR	YES		10-06-2021
(shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	125	OR	YES		10-06-2021
		27	OR	YES		10-06-2021

((shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
availab$7 with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	29208	OR	YES		10-06-2021
(availab$7 with (timer or time$1out or watchdog)) and (shared or common) near memory	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1433	OR	YES		10-06-2021
(availab$7 with (timer or time$1out or watchdog) and (shared or common) near memory) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	371	OR	YES		10-06-2021
(availab$7 with (timer or time$1out or watchdog) and (shared or common) near memory and @ad<20021217) and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	116	OR	YES		10-06-2021
(request$3 or messag$3 or query$3) with (shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	18	OR	YES		10-06-2021
(request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB,	128	OR	YES		10-06-2021

	JPAB, DWPI, TDBD					
((request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		10-06-2021
(((((((((G06F9/542))))))))) (((((((((G06F9/545))))))))) (((((((((G06F9/546))))))))) (((((((((H04L43/10))))))))) (((((((((H04L67/10))))))))) (((((((((B60R16/0231))))))))).cpc.	PGPB	34591	OR	YES		10-06-2021
(((((((((G06F9/542))))))))) (((((((((G06F9/545))))))))) (((((((((G06F9/546))))))))) (((((((((H04L43/10))))))))) (((((((((H04L67/10))))))))) (((((((((B60R16/0231))))))))).cpc.) and (request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)	PGPB	2	OR	YES		10-06-2021
(((((((((G06F9/542))))))))) (((((((((G06F9/545))))))))) (((((((((G06F9/546))))))))) (((((((((H04L43/10))))))))) (((((((((H04L67/10))))))))) (((((((((B60R16/0231))))))))).cpc.) and (motor or vehicle or automobile or automotive or ecu)	PGPB	8080	OR	YES		10-06-2021
(((((((((G06F9/542))))))))) (((((((((G06F9/545))))))))) (((((((((G06F9/546))))))))) (((((((((H04L43/10))))))))) (((((((((H04L67/10))))))))) (((((((((B60R16/0231))))))))).cpc. and (motor or vehicle or automobile or automotive or ecu)) and (request$3 or messag$3) with (storing or sav$3)	PGPB	1569	OR	YES		10-06-2021
(((((((((G06F9/542))))))))) (((((((((G06F9/545))))))))) (((((((((G06F9/546))))))))) (((((((((H04L43/10))))))))) (((((((((H04L67/10))))))))) (((((((((B60R16/0231))))))))).cpc. and (motor or vehicle or automobile or automotive or ecu) and (request$3 or messag$3) with (storing or sav$3)) and (shared or common) near memory	PGPB	147	OR	YES		10-06-2021
(((((((((G06F9/542))))))))) (((((((((G06F9/545))))))))) (((((((((G06F9/546))))))))) (((((((((H04L43/10))))))))) (((((((((H04L67/10))))))))) (((((((((B60R16/0231))))))))).cpc. and (motor or vehicle or automobile or automotive or ecu) and (request$3 or messag$3) with (storing or	PGPB	4	OR	YES		10-06-2021

sav$3) and (shared or common) near memory) and @ad<20021217						
((((((((((G06F9/542)))))))) (((((((((G06F9/545)))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231)))))))).cpc.) and (bb or bulletin adj board or storage or((shared or common) near memory)) with availab$6	PGPB	5857	OR	YES		10-06-2021
((((((((((G06F9/542)))))))) (((((((((G06F9/545)))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231)))))))).cpc.) and (bb or bulletin adj board or storage or ((shared or common) near memory)) with availab$6	PGPB	5857	OR	YES		10-06-2021
((((((((((G06F9/542)))))))) (((((((((G06F9/545)))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231)))))))).cpc. and (bb or bulletin adj board or storage or ((shared or common) near memory)) with availab$6) and @ad<20021217	PGPB	136	OR	YES		10-06-2021
((((((((((G06F9/542)))))))) (((((((((G06F9/545)))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231)))))))).cpc. and (bb or bulletin adj board or storage or ((shared or common) near memory)) with availab$6 and @ad<20021217) and (motor or vehicle or automobile or automotive or ecu)	PGPB	17	OR	YES		10-06-2021
((((((((((G06F9/542)))))))) (((((((((G06F9/545)))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231)))))))).cpc.) and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)	PGPB	7524	OR	YES		10-06-2021
((((((((((G06F9/542)))))))) (((((((((G06F9/545)))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231)))))))).cpc. and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)) and (motor or vehicle or automobile or automotive or ecu)	PGPB	1583	OR	YES		10-06-2021
((((((((((G06F9/542)))))))) (((((((((G06F9/545)))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231)))))))).cpc.) and (bb or	PGPB	5706	OR	YES		10-06-2021

bulletin adj board or storage) with availab$6						
((((((((((G06F9/542)))))))) ((((((((G06F9/545)))))))) ((((((((G06F9/546)))))))) ((((((((H04L43/10)))))))) ((((((((H04L67/10)))))))) ((((((((B60R16/0231)))))))).cpc. and (bb or bulletin adj board or storage) with availab$6) and (motor or vehicle or automobile or automotive or ecu)	PGPB	1651	OR	YES		10-06-2021
((((((((((G06F9/542)))))))) ((((((((G06F9/545)))))))) ((((((((G06F9/546)))))))) ((((((((H04L43/10)))))))) ((((((((H04L67/10)))))))) ((((((((B60R16/0231)))))))).cpc. and (bb or bulletin adj board or storage) with availab$6 and (motor or vehicle or automobile or automotive or ecu)) and @ad<20021217	PGPB	17	OR	YES		10-06-2021
("20020073243" | "20020124007" | "5588002" | "5854454" | "5956489" | "6034970" | "6141710" | "6289390" | "6378001" | "6484082" | "6801942" | "7103045" | "7103646" | "7103656" | "7552440").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	45	OR	YES		10-06-2021
(("20020073243" | "20020124007" | "5588002" | "5854454" | "5956489" | "6034970" | "6141710" | "6289390" | "6378001" | "6484082" | "6801942" | "7103045" | "7103646" | "7103656" | "7552440").PN.) and (motor or vehicle or automobile or automotive or ecu)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	17	OR	YES		10-06-2021
(("20020073243" | "20020124007" | "5588002" | "5854454" | "5956489" | "6034970" | "6141710" | "6289390" | "6378001" | "6484082" | "6801942" | "7103045" | "7103646" | "7103656" | "7552440").PN. and (motor or vehicle or automobile or automotive or ecu)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	16	OR	YES		10-06-2021
(("20020073243" | "20020124007" | "5588002" | "5854454" | "5956489" | "6034970" | "6141710" | "6289390" | "6378001" | "6484082" | "6801942" | "7103045" | "7103646" | "7103656" | "7552440").PN.) and (bb or bulletin adj board or storage) with availab$6	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1	OR	YES		10-06-2021
(("20020073243" | "20020124007" | "5588002" | "5854454" | "5956489" | "6034970" | "6141710" | "6289390" | "6378001" |	PGPB, USPT, USOC,	6	OR	YES		10-06-2021

"6484082" | "6801942" | "7103045" | "7103646" | "7103656" | "7552440").PN.) and (shared or common) near memory with (request$3 or memory or access$3)	EPAB, JPAB, DWPI, TDBD					
(("20020073243" | "20020124007" | "5588002" | "5854454" | "5956489" | "6034970" | "6141710" | "6289390" | "6378001" | "6484082" | "6801942" | "7103045" | "7103646" | "7103656" | "7552440").PN. and (shared or common) near memory with (request$3 or memory or access$3)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6	OR	YES		10-06-2021
(acu automotive adj control adj unit) with sensor	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	415	OR	YES		10-06-2021
((acu automotive adj control adj unit) with sensor) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	36	OR	YES		10-06-2021
(acu automotive adj control adj unit) with (request$3 call invocation invok$3 query$3 message) with resource	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	39	OR	YES		10-06-2021
((acu automotive adj control adj unit) with (request$3 call invocation invok$3 query$3 message) with resource) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	12	OR	YES		10-06-2021
("20030040881" | "20030043739" | "4099255" | "6434459").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	10	OR	YES		10-06-2021

	TDBD					
("10002036" | "10031790" | "10248477" | "7802263" | "8209705" | "8566843" | "9575817" | "9705765").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	39	OR	YES		10-06-2021
((("10002036" | "10031790" | "10248477" | "7802263" | "8209705" | "8566843" | "9575817" | "9705765").PN.) (("20030040881" | "20030043739" | "4099255" | "6434459").PN.)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	32	OR	YES		10-06-2021
(((("10002036" | "10031790" | "10248477" | "7802263" | "8209705" | "8566843" | "9575817" | "9705765").PN. ("20030040881" | "20030043739" | "4099255" | "6434459").PN.) and @ad<20021217) and (request$3 call invocation invok$3 query$3 message) with resource	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		10-06-2021
(request$3 call invocation invok$3 query$3 message) with (sensor and resource)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	17203	OR	YES		10-06-2021
(request$3 call invocation invok$3 query$3 message) with (sensor with resource)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3194	OR	YES		10-06-2021
((request$3 call invocation invok$3 query$3 message) with (sensor with resource)) and (acu automotive adj control adj unit)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3	OR	YES		10-06-2021
(request$3 call invocation invok$3 query$3 message) with (bb or bulletin adj board or storage) with availab$6	PGPB, USPT, USOC,	39948	OR	YES		10-06-2021

	EPAB, JPAB, DWPI, TDBD					
((request$3 call invocation invok$3 query$3 message) with (bb or bulletin adj board or storage) with availab$6) and ((request$3 call invocation invok$3 query$3 message) with (sensor and resource))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1055	OR	YES		10-06-2021
((request$3 call invocation invok$3 query$3 message) with (bb or bulletin adj board or storage) with availab$6 and (request$3 call invocation invok$3 query$3 message) with (sensor and resource)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	15	OR	YES		10-06-2021
(bb or bulletin adj board or storage) with availab$6 with sensor	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	5356	OR	YES		10-06-2021
((bb or bulletin adj board or storage) with availab$6 with sensor) and (motor or vehicle or automobile or automotive or ecu)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3627	OR	YES		10-06-2021
((bb or bulletin adj board or storage) with availab$6 with sensor and (motor or vehicle or automobile or automotive or ecu)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	240	OR	YES		10-06-2021

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

Application Number	16042159
Filing Date	2018-07-23
First Named Inventor	Axel Fuchs
Art Unit	2194
Examiner Name	Charles E ANYA
Attorney Docket Number	SVIPGP061H

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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	5202887	A	1993-04-13	Ueno et al.	Entire Document
	2	5469150	A	1995-11-21	Sitte	Entire Document
	3	5794164	A	1998-08-11	Beckert et al.	Entire Document
	4	6292862	B1	2001-09-18	Barrenscheen et al.	Entire Document
	5	6625169	B1	2003-09-23	Tofano	Entire Document
	6	6657252	B2	2003-12-02	Fried et al.	Entire Document
	7	6871250	B2	2005-03-22	Froeschl et al.	Entire Document
	8	6934612	B2	2005-08-23	Remboski et al.	Entire Document

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Receipt date: 09/28/2021

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16042159
	Filing Date	2018-07-23
	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

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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	20030223436	A1	2003-12-04	Lohrmann et al.	Entire Document

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	1355456	EP	A1	2003-10-22	Forest et al.	Entire Document	
	2	1355458	EP	B1	2005-09-21	Forest et al.	Entire Document	

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Autosar "Specification of Operating System Interface", release R19-11 (2019)	
	2	Autosar Systems "Specification of Operating System Release 4.2.2" 2003	
	3	Case No. 20-510; 20-511; 50-512	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.E.A/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16042159
	Filing Date	2018-07-23
	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

	4	H.C. von der Wense et al. "Advanced Microsystems for Automotive Applications" Springer (2001), p. 280-292	
	5	Homburg et al. "Automatic Code Generation for Multirate Simulink Models with Support for OSEK Real-Time Operating System," 2001	
	6	International Organization for Standardization 11898, Amendment 1, Apr (1995)	
	7	International Organization for Standardization 11898, First Edition, Nov (1993)	
	8	International Organization for Standardization 11898-1, First Edition, Dec (2003)	
	9	J. Kershaw "Dependable systems using "VIPER"" IET, Conference Nov. 8-10, 1989	
	10	Volvo Technology Report, "Volcano - a revolution in on-board communications" Feb 11, 1999	
	11	IPR2017-00457	
	12	IPR2017-00458	
	13	IPR2017-00676	
	14	IPR2017-00677	

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	Filing Date	2018-07-23
	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

	15	IPR2017-01502	
	16	IPR2017-01503	
	17	IPR2017-01504	
	18	IPR2017-01519	
	19	IPR2017-01520	
	20	IPR2017-01521	
	21	IPR2017-01522	
	22	IPR2021-00417	
	23	IPR2021-00418	
	24	IPR2021-00419	
	25	IPR2021-00425	

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	26	IPR2021-00426	
	27	IPR2021-00427	
	28	IPR2021-00726	
	29	IPR2021-00727	
	30	IPR2021-00728	

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EXAMINER SIGNATURE

Examiner Signature	/CHARLES E ANYA/	Date Considered	10/06/2021

*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.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2018-07-23
	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

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	/Patrick Caldwell/	Date (YYYY-MM-DD)	2021-09-28
Name/Print	Patrick Caldwell	Registration Number	44580

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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1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

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.

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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16042159
Filing Date	2018-07-23
First Named Inventor	Axel Fuchs
Art Unit	2194
Examiner Name	Charles E ANYA
Attorney Docket Number	SVIPGP061H

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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
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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
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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

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Receipt date: 10/01/2021

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16042159
	Filing Date	2018-07-23
	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

	1	IPR2017-00457 (Final Written Decision, published 6/13/2018)	
	2	IPR2017-00458 (Final Written Decision, published 6/13/2018)	
	3	IPR2017-00676 (Final Written Decision, published 6/14/2018)	
	4	IPR2017-00677 (Final Written Decision, published 6/13/2018)	
	5	IPR2017-01502 (Final Written Decision, published 12/6/2018)	
	6	IPR2017-01503 (Final Written Decision, published 12/6/2018)	
	7	IPR2017-01504 (Final Written Decision, published 12/6/2018)	
	8	IPR2017-01519 (Final Written Decision, published 12/6/2018)	
	9	IPR2017-01520 (Final Written Decision, published 12/6/2018)	
	10	IPR2017-01521 (Final Written Decision, published 12/6/2018)	
	11	IPR2017-01522 (Final Written Decision, published 12/6/2018)	

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	First Named Inventor	Axel Fuchs
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	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

	12	IPR2021-00417 (Institution decision, published 7/19/2021)	
	13	IPR2021-00418 (Institution DENIED, published 7/19/2021)	
	14	IPR2021-00419 (Institution DENIED, published 7/19/2021)	
	15	IPR2021-00425 (Institution DENIED, published 7/19/2021)	
	16	IPR2021-00426 (Institution DENIED, published 7/19/2021)	
	17	IPR2021-00427 (Institution DENIED, published 7/19/2021)	
	18	IPR2021-00726 (Institution DENIED, published 10/1/2021)	
	19	IPR2021-00727 (Institution DENIED, published 10/1/2021)	
	20	IPR2021-00728 (Institution DENIED, published 10/1/2021)	
	21	USPAN 17/387,988 filed 07/28/2021	

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	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

EXAMINER SIGNATURE			
Examiner Signature	/CHARLES E ANYA/	Date Considered	10/06/2021

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Signature	/Patrick Caldwell/	Date (YYYY-MM-DD)	2021-10-01
Name/Print	Patrick Caldwell	Registration Number	44580

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.E.A/

Electronic Patent Application Fee Transmittal

Application Number:	16042159
Filing Date:	23-Jul-2018
Title of Invention:	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK
First Named Inventor/Applicant Name:	Axel Fuchs
Filer:	Patrick Edgar Caldwell
Attorney Docket Number:	SVIPGP061H

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL	1504	1	0	0
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
UTILITY APPL ISSUE FEE	1501	1	1200	1200
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**1200**

Electronic Acknowledgement Receipt	
EFS ID:	43967932
Application Number:	16042159
International Application Number:	
Confirmation Number:	9106
Title of Invention:	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK
First Named Inventor/Applicant Name:	Axel Fuchs
Customer Number:	92045
Filer:	Patrick Edgar Caldwell
Filer Authorized By:	
Attorney Docket Number:	SVIPGP061H
Receipt Date:	06-OCT-2021
Filing Date:	23-JUL-2018
Time Stamp:	19:28:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$1200
RAM confirmation Number	E202106J28514192
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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	SVIPGP061H_fee-transmittal_vF_06-Oct-2011.pdf	102440 9cae0066b2fccb3ebcef431ca7fd11722edffcb	no	1
Warnings:					
Information:					
2	Post Allowance Communication - Incoming	SVIPGP061H_Comments_vF_06-Oct-2021.pdf	55481 5c1a9813efdb6137890a310c64a1136416efd25f	no	2
Warnings:					
Information:					
3	Applicant summary of interview with examiner	SVIPGP061H_ExaminerInterview_vF_06-Oct-2021.pdf	6100813 19bd767f85d6db7f03acbf43737ac1b9d17deb29	no	61
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	40639 c234744a2dbbc0b1161aa289ce0410619f6c346f	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	6299373		

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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 a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
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If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PART B - FEE(S) TRANSMITTAL

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Alexandria, Virginia 22313-1450

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

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92045 7590 10/05/2021

The Caldwell Firm, LLC
PO Box 59655
Dept. SVIPGP
Dallas, TX 75229

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Certificate of Mailing or Transmission

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/042,159	07/23/2018	Axel Fuchs	SVIPGP061H	9106

TITLE OF INVENTION: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	01/05/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS
ANYA, CHARLES E	2194	719-313000

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

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

0 "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 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 Patrick E. Caldwell, Esq.
2 The Caldwell Firm, LLC
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)
Stragent, LLC	Longview, TX

Please check the appropriate assignee category or categories (will not be printed on the patent) : 0 Individual ☒ Corporation or other private group entity O Government

4a. Fees submitted: ☒ Issue Fee ☒ Publication Fee (if required) ☐ Advance Order - # of Copies

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

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0 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)

0 Applicant certifying micro entity status. See 37 CFR 1.29

0 Applicant asserting small entity status. See 37 CFR 1.27

0 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 /Patrick Caldwell/ Date 06 Oct 2021

Typed or printed name Patrick Caldwell Registration No. 44,580

PTOL-85 Part B (08-18) Approved for use through 01/31/2020 OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Axel Fuchs Application No.: 16/042,159 File Date: 2018-07-23 Title: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK	Confirmation No.: 9106 Examiner: Charles E ANYA Art Unit: 2194 Docket No.: SVIPGP061H Date: Oct 06, 2021

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE UNDER 37 C.F.R. § 1.104(e)

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

Examiner:

In response to the Notice of Allowance dated 10/05/2021, please enter the following remarks.

Remarks:

The Examiner has not provided an Examiner's Statement of Reasons for Allowance in the mailed Notice of Allowance dated 10/05/2021. In view of such, Applicant agrees with the Examiner's conclusion that these claims are allowable, Applicant notes that each of the claims stands on its own merits and is patentable because of the combination it recites and not because of the presence or absence of any one particular element.

Applicant also brings the Examiner's attention to the fact that two IDSs were not considered prior to the mailing of the Notice of Allowance. In particular, an IDS was filed 09/28/2021 and another IDS was filed 10/01/2021, both of which were submitted before the mailing of the Notice of Allowance on 10/05/2021. Applicant respectfully requests a supplemental NOA be mailed wherein such IDSs are considered.

Respectfully submitted,



Dated: 06 Oct 2021

The Caldwell Firm, LLC
PO Box 59655
Dallas, Texas 75229-0655
Telephone: (214) 734-2313
pcaldwell@thecaldwellfirm.com

Patrick E. Caldwell, Esq.
Reg. No. 44,580

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Axel Fuchs Application No.: 16/042,159 File Date: 2018-07-23 Title: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK	Confirmation No.: 9106 Examiner: Charles E ANYA Art Unit: 2194 Docket No.: SVIPGP061H Date: Oct 06, 2021

EXAMINER INTERVIEW

Date of Interview	August 5-11, 2021
Type of Interview	Email/Telephonic
Name of Participants	Patrick Caldwell, Charles E ANYA
Exhibit shown?	Appendix A
Claims Discussed	Independent Claims
Prior Art Discussed	Yes
Substance of Interview	Sent/reviewed proposed amendments with Examiner.
Agreement Reached?	Yes

For Filing

From: Anya, Charles <Charles.Anya@USPTO.GOV>
Sent: Monday, August 9, 2021 7:54 AM
To: Patrick E. Caldwell
Subject: RE: 16/042,159 (SVIPGP061H) Proposed Amendment

Hello Mr. Penilla,
Thanks for the prompt response.
I will now prepare the Examiner's Amendment.

Thanks,
Examiner Anya.

From: Patrick E. Caldwell <pcaldwell@thecaldwellfirm.com>
Sent: Friday, August 6, 2021 11:42 AM
To: Anya, Charles <Charles.Anya@USPTO.GOV>
Subject: 16/042,159 (SVIPGP061H) Proposed Amendment

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Examiner Anya,
Please consider the attached proposed amendment, which may be entered in exchange for an allowance.
--

Thanks,
Patrick

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From: Anya, Charles <Charles.Anya@USPTO.GOV>
Sent: Monday, August 9, 2021 10:32 AM
To: Patrick E. Caldwell
Subject: RE: 16/042,159 (SVIPGP061H) Proposed Amendment

Hello,
Please forgive me but i would like to reschedule the 2pm interview.

Thanks,
Examiner Anya.

From: Patrick E. Caldwell <pcaldwell@thecaldwellfirm.com>
Sent: Friday, August 6, 2021 11:42 AM
To: Anya, Charles <Charles.Anya@USPTO.GOV>
Subject: 16/042,159 (SVIPGP061H) Proposed Amendment

CAUTION: This email has originated from a source outside of USPTO. **PLEASE CONSIDER THE SOURCE** before responding, clicking on links, or opening attachments.

Examiner Anya,
Please consider the attached proposed amendment, which may be entered in exchange for an allowance.
--

Thanks,
Patrick

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IN THE CLAIMS

1. (Currently Amended) A system, comprising:

an automotive electronic control unit including a memory storage comprising instructions, and at least one hardware processor in hardwired communication with the memory storage, wherein the at least one hardware processor executes the instructions [[configured]] for:

receiving sensor information associated with a message;

in response to receiving the sensor information, issuing, by the at least one hardware processor and to a storage resource included in the automotive electronic control unit, a storage resource request ~~in connection with a~~ to access the storage resource included in the automotive electronic control unit to store the sensor information and, in response to issuing the storage resource request, determining whether the storage resource is available to store the sensor information;

determining whether a threshold tracked since the issuance of the storage resource request has been reached indicating that the storage resource has not been available in association with the threshold tracked since the issuance of the storage resource request;

when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request, to not be available and the threshold ~~associated with~~ tracked since the issuance of the storage resource request has not been reached indicating that the storage resource has not been available in association with the threshold tracked since the issuance of the storage resource request, issuing, by the at least one hardware processor to the storage resource included in the automotive electronic control unit, another storage resource request ~~in connection with~~ to access the storage resource included in the automotive electronic control unit to store the sensor information;

when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request or the another storage resource request, to not be available and the threshold ~~associated with~~ tracked since the issuance of the storage resource request has been reached, sending an error notification; and

when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request or the another storage resource request, to be available, storing the sensor information utilizing the storage resource;

wherein the automotive electronic control unit is operable such that the sensor information is capable of being shared in less than one second, and the automotive electronic control unit includes a plurality of interfaces including:

a first interface; and

a second interface for interfacing with a network, ~~the second interface including a second interface-related data link layer component for using network-related data link layer header bits and a second interface-related network layer component for using network-related network layer header bits,~~ where the network is at least one of a Controller Area Network, a Flexray network, or a Local Interconnect Network.

2. (Currently Amended) The system as recited in claim 1, wherein the system is operable such that the sensor information reaches a destination on the network in less than one second.

3. (Currently Amended) The system as recited in claim 1, wherein the system is operable such that the sensor information reaches a destination on the network in less than a millisecond.

4. (Currently Amended) The system as recited in claim 1, wherein the system is operable such that a duration between the sensor information being received and being shared is less than one second.

5. (Currently Amended) The system as recited in claim 1, wherein the system is operable such that a duration between the sensor information being received and the sharing being completed is less than a millisecond.

6. (Currently Amended) The system as recited in claim 1, wherein the system is operable such that the sensor information is shared in less than a millisecond.

7. (Previously Presented) The system as recited in claim 6, wherein the system is configured for sharing automotive sensor data between heterogeneous networks with sufficient speed for use in connection with an automotive device.

8. (Currently Amended) An apparatus, comprising:

an automotive electronic control unit including a memory storage comprising instructions, and at least one hardware processor in hardwired communication with the memory storage, wherein the at least one hardware processor executes the instructions [[configured]] for:

identifying sensor information associated with a message received utilizing a first network protocol associated with a first network;

in response to identifying the sensor information, issuing, by the at least one hardware processor and to a storage resource included in the automotive electronic control unit, a storage resource request ~~in connection with a~~ to access the storage resource included in the automotive electronic control unit to store the sensor information and, in response to issuing the storage resource request, determining whether the storage resource is available to store the sensor information;

determining whether a threshold tracked since the issuance of the storage resource request has been reached indicating that the storage resource has not been available in association with the threshold tracked since the issuance of the storage resource request;

in the event the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request, to not be available and the threshold ~~associated with~~ tracked since the issuance of the storage resource request has not been reached indicating that the storage resource has not been available in association with the threshold tracked since the issuance of the storage resource request, issuing, by the at least one hardware processor to the storage resource included in the automotive electronic control unit, another storage resource request ~~in connection with~~ to access the storage resource included in the automotive electronic control unit to store the sensor information;

in the event the storage resource included in the automotive electronic control unit is determined, in response to issuing the another storage resource request, to not be

available and the threshold ~~associated with~~ tracked since the issuance of the storage resource request has been reached, sending an error notification; and

in the event the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request or the another storage resource request, to be available, storing the sensor information utilizing the storage resource;

wherein the apparatus is operable such that the sensor information is capable of being shared in less than one second utilizing a second network protocol associated with a second network, and the automotive electronic control unit remains in hardwired communication with the first network and the second network and includes:

a first interface for interfacing with the first network, the first interface including a first interface-related data link layer component for using first network-related data link layer header bits and a first interface-related network layer component for using first network-related network layer header bits, where the first network is at least one of a Controller Area Network type, a Flexray network type, or a Local Interconnect Network type; and

a second interface for interfacing with the second network, the second interface including a second interface-related data link layer component for using second network-related data link layer header bits and a second interface-related network layer component for using second network-related network layer header bits, where the second network is at least one of the Controller Area Network type, the Flexray network type, or the Local Interconnect Network type.

9. (Previously Presented) The apparatus as recited in claim 8, wherein the apparatus is operable such that network layer translation is capable of being avoided.

10. (Previously Presented) The apparatus as recited in claim 8, wherein the apparatus is configured for sharing automotive sensor data received via the first network for use in connection with an automotive device on the second network, in less than the one second.

11. (Previously Presented) The apparatus as recited in claim 8, wherein the apparatus is configured for sharing automotive sensor data received via the first network for use in connection with an automotive actuator on the second network, in less than a millisecond.

12. (Currently Amended) The apparatus as recited in claim 11, wherein the apparatus is operable such that the sensor information is shared by the second interface-related network layer component using the second network-related network layer header bits by adding the second network-related network layer header bits to a data unit including the sensor information, and then the second interface-related data link layer component using the second network-related data link layer header bits by adding the second network-related data link layer header bits to the data unit, before communicating the data unit on a physical link of the second network.

13. (Currently Amended) The apparatus as recited in claim 12, wherein the apparatus is operable such that the first interface-related data link layer component uses the first network-related data link layer header bits by removing the first network-related data link layer header bits from another data unit, and the first interface-related network layer component uses the first network-related network layer header bits by removing the first network-related network layer header bits from the another data unit so that the sensor information is removed from the another data unit, before the sharing.

14. (Currently Amended) A non-transitory computer-readable medium of an automotive electronic control unit for storing a computer program product ~~for sharing information, the computer program product comprising~~ including code that, when executed by at least one hardware processor included in the automotive electronic control unit in communication with the non-transitory computer-readable medium, is for:

~~code for~~ receiving sensor information associated with a message received utilizing a first network protocol associated with a first network;

~~code for~~ in response to receiving the sensor information, issuing, by the at least one hardware processor and to a storage resource included in the automotive electronic control unit, a storage resource request ~~in connection with a~~ to access the storage resource included in the

automotive electronic control unit, for determining whether the storage resource included in the automotive electronic control unit is available to store the sensor information;

~~code for~~ determining whether a time-related threshold tracked after the issuance of the storage resource request has been reached in association with the determination whether the storage resource is available;

~~code for,~~ when the storage resource included in the automotive electronic control unit is determined to not be available and the threshold associated with the determination whether the storage resource is available has not been reached, issuing, by the at least one hardware processor to the storage resource included in the automotive electronic control unit, another storage resource request ~~in connection with~~ to access the storage resource included in the automotive electronic control unit to store the sensor information;

~~code for,~~ when the storage resource included in the automotive electronic control unit is determined to not be available and the threshold associated with determination whether the storage resource is available has been reached, ceasing repeating issuance of another storage resource request~~sending a notification~~; and

~~code for,~~ when the storage resource included in the automotive electronic control unit is determined to be available, storing the sensor information utilizing the storage resource;

wherein the computer program product is operable such that the sensor information is capable of being shared in less than one second utilizing [[an]]the automotive electronic control unit that remains in hardwired communication with the first network and a second network, and that includes a plurality of interfaces including:

a first interface for interfacing with the first network~~, the first interface including a first interface-related data link layer component for using first network-related data link layer header bits and a first interface-related network layer component for using first network-related network layer header bits~~, where the first network is ~~at least~~ one of a Controller Area Network, a Flexray network, or a Local Interconnect Network; and

a second interface for interfacing with the second network, where the second network is another one of the Controller Area Network, the Flexray network, or the Local Interconnect Network~~, the second interface including a second interface-related data link layer component for using second network-related data link layer header bits~~.

15. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that the sensor information reaches a destination on the second network in less than one second.

16. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that the sensor information reaches a destination on the second network in less than a millisecond.

17. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that a duration between the sensor information being received and the sharing being completed is less than one second.

18. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that a duration between the sensor information being received and the sharing being completed is less than a millisecond.

19. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that the sharing of the sensor information is completed in less than a millisecond.

20. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is configured for sharing the sensor information in the form of automotive sensor data received via the first network for use in connection with an automotive device on the second network, in less than the one millisecond second.

21. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the storage resource request and the another storage resource request are identical.

22. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the storage resource request and the another storage resource request are the same.

23. (New) The apparatus as recited in claim 1, wherein the apparatus is operable such that the sensor information excludes all header bits of the message.

24. (New) The apparatus as recited in claim 1, wherein the apparatus is operable such that the sensor information excludes at least a portion of any header bits of the message.

25. (New) The apparatus as recited in claim 1, wherein the apparatus is operable such that the storage resource includes a bulletin board.

26. (New) The apparatus as recited in claim 1, wherein the apparatus is operable such that the error notification is sent, when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request, to not be available and the threshold tracked since the issuance of the storage resource request has been reached.

27. (New) The apparatus as recited in claim 1, wherein the apparatus is operable such that the error notification is sent, when the storage resource included in the automotive electronic control unit is determined, in response to issuing the another storage resource request, to not be available and the threshold tracked since the issuance of the storage resource request has been reached.

28. (New) The apparatus as recited in claim 1, wherein the apparatus is operable such that the error notification is sent, when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request and the another storage resource request, to not be available and the threshold tracked since the issuance of the storage resource request has been reached.

29. (New) The apparatus as recited in claim 8, wherein at least one of:

the memory storage includes the storage resource;

the memory storage does not include the storage resource;

the storage resource is part of the memory storage;

the storage resource is not part of the memory storage;

the sensor information includes original data received from a sensor or derived data derived from original data received from the sensor;

the threshold is time-related;

the threshold is a timeout;

the threshold includes a duration threshold;

the threshold does not include a duration threshold;

the threshold is configurable;

the storage resource included in the automotive electronic control unit is determined to be available, when automotive electronic control unit gets the storage resource;

the storage resource included in the automotive electronic control unit is determined to be available, when automotive electronic control unit gets access to the storage resource;

the storage resource included in the automotive electronic control unit is determined to be not available, when automotive electronic control unit does not get the storage resource;

the storage resource included in the automotive electronic control unit is determined to be not available, when automotive electronic control unit does not get access to the storage resource;

the second interface-related data link layer component includes a data link layer component related to the second interface;

the data link layer component is a component that operates in a data link layer;

the data link layer component is a component that operates using the data link layer header bits;

the second interface-related network layer component includes a network layer component related to the second interface;

the network layer component is a component that operates in a network layer;

the network layer component is a component that operates using network layer header bits;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides directly below the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides below the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides directly adjacent the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides adjacent the network layer;

the network-related data link layer header bits are relate to a particular network; or

the network-related network layer header bits are relate to a particular network.

For Filing

From: Anya, Charles <Charles.Anya@USPTO.GOV>
Sent: Wednesday, August 11, 2021 10:37 AM
To: Patrick E. Caldwell
Subject: RE: 16/042,159 (SVIPGP061H) NEW Proposed Amendment

Hello Mr. Caldwell,
Again, please forgive me for the short notice.
I consider the amendment and update you.

Thanks,
Charles.

From: Patrick E. Caldwell <pcaldwell@thecaldwellfirm.com>
Sent: Tuesday, August 10, 2021 9:32 PM
To: Anya, Charles <Charles.Anya@USPTO.GOV>
Subject: 16/042,159 (SVIPGP061H) NEW Proposed Amendment

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Examiner Anya,
Please consider the attached proposed amendment, which may be entered in exchange for an allowance.
--

Thanks,
Patrick

Patrick E. Caldwell, Esq.
The Caldwell Firm, LLC
PO Box 59655
Dallas, Texas 75229-0655
+1.214.734.2313 (mobile)
http://www.thecaldwellfirm.com/

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IN THE CLAIMS

1. (Currently Amended) A system, comprising:

an automotive electronic control unit including a memory storage comprising instructions, and at least one hardware processor in hardwired communication with the memory storage, wherein the at least one hardware processor executes the instructions [[configured]] for:

receiving sensor information associated with a message;

in response to receiving the sensor information, issuing, by the at least one hardware processor and to a storage resource included in the automotive electronic control unit, a storage resource request ~~in connection with a~~ to access the storage resource included in the automotive electronic control unit to store the sensor information and, in response to issuing the storage resource request, determining whether the storage resource is available to store the sensor information;

determining whether a threshold tracked since the issuance of the storage resource request has been reached indicating that the storage resource has not been available in association with the threshold tracked since the issuance of the storage resource request;

when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request, to not be available and the threshold ~~associated with~~ tracked since the issuance of the storage resource request has not been reached indicating that the storage resource has not been available in association with the threshold tracked since the issuance of the storage resource request, issuing, by the at least one hardware processor to the storage resource included in the automotive electronic control unit, another storage resource request ~~in connection with~~ to access the storage resource included in the automotive electronic control unit to store the sensor information;

when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request or the another storage resource request, to not be available and the threshold ~~associated with~~ tracked since the issuance of the storage resource request has been reached, sending an error notification; and

when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request or the another storage resource request, to be available, storing the sensor information utilizing the storage resource;

wherein the automotive electronic control unit is operable such that the sensor information is capable of being shared in less than one second, and the automotive electronic control unit includes a plurality of interfaces including:

a first interface; and

a second interface for interfacing with a network, ~~the second interface including a second interface-related data link layer component for using network-related data link layer header bits and a second interface-related network layer component for using network-related network layer header bits,~~ where the network is at least one of a Controller Area Network, a Flexray network, or a Local Interconnect Network.

2. (Currently Amended) The system as recited in claim 1, wherein the system is operable such that the sensor information reaches a destination on the network in less than one second.

3. (Currently Amended) The system as recited in claim 1, wherein the system is operable such that the sensor information reaches a destination on the network in less than a millisecond.

4. (Currently Amended) The system as recited in claim 1, wherein the system is operable such that a duration between the sensor information being received and being shared is less than one second.

5. (Currently Amended) The system as recited in claim 1, wherein the system is operable such that a duration between the sensor information being received and the sharing being completed is less than a millisecond.

6. (Currently Amended) The system as recited in claim 1, wherein the system is operable such that the sensor information is shared in less than a millisecond.

7. (Previously Presented) The system as recited in claim 6, wherein the system is configured for sharing automotive sensor data between heterogeneous networks with sufficient speed for use in connection with an automotive device.

8. (Currently Amended) An apparatus, comprising:

an automotive electronic control unit including a memory storage comprising instructions, and at least one hardware processor in hardwired communication with the memory storage, wherein the at least one hardware processor executes the instructions [[configured]] for:

identifying sensor information associated with a message received utilizing a first network protocol associated with a first network;

in response to identifying the sensor information, issuing, by the at least one hardware processor and to a storage resource included in the automotive electronic control unit, a storage resource request ~~in connection with a~~ to access the storage resource included in the automotive electronic control unit to store the sensor information and, in response to issuing the storage resource request, determining whether the storage resource is available to store the sensor information;

determining whether a threshold tracked since the issuance of the storage resource request has been reached indicating that the storage resource has not been available in association with the threshold tracked since the issuance of the storage resource request;

in the event the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request, to not be available and the threshold ~~associated with~~ tracked since the issuance of the storage resource request has not been reached indicating that the storage resource has not been available in association with the threshold tracked since the issuance of the storage resource request, issuing, by the at least one hardware processor to the storage resource included in the automotive electronic control unit, another storage resource request ~~in connection with~~ to access the storage resource included in the automotive electronic control unit to store the sensor information;

in the event the storage resource included in the automotive electronic control unit is determined, in response to issuing the another storage resource request, to not be

available and the threshold ~~associated with~~ tracked since the issuance of the storage resource request has been reached, sending an error notification; and

in the event the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request or the another storage resource request, to be available, storing the sensor information utilizing the storage resource;

wherein the apparatus is operable such that the sensor information is capable of being shared in less than one second utilizing a second network protocol associated with a second network, and the automotive electronic control unit remains in hardwired communication with the first network and the second network and includes:

a first interface for interfacing with the first network, the first interface including a first interface-related data link layer component for using first network-related data link layer header bits and a first interface-related network layer component for using first network-related network layer header bits, where the first network is at least one of a Controller Area Network type, a Flexray network type, or a Local Interconnect Network type; and

a second interface for interfacing with the second network, the second interface including a second interface-related data link layer component for using second network-related data link layer header bits and a second interface-related network layer component for using second network-related network layer header bits, where the second network is at least one of the Controller Area Network type, the Flexray network type, or the Local Interconnect Network type.

9. (Previously Presented) The apparatus as recited in claim 8, wherein the apparatus is operable such that network layer translation is capable of being avoided.

10. (Previously Presented) The apparatus as recited in claim 8, wherein the apparatus is configured for sharing automotive sensor data received via the first network for use in connection with an automotive device on the second network, in less than the one second.

11. (Previously Presented) The apparatus as recited in claim 8, wherein the apparatus is configured for sharing automotive sensor data received via the first network for use in connection with an automotive actuator on the second network, in less than a millisecond.

12. (Currently Amended) The apparatus as recited in claim 11, wherein the apparatus is operable such that the sensor information is shared by the second interface-related network layer component using the second network-related network layer header bits by adding the second network-related network layer header bits to a data unit including the sensor information, and then the second interface-related data link layer component using the second network-related data link layer header bits by adding the second network-related data link layer header bits to the data unit, before communicating the data unit on a physical link of the second network.

13. (Currently Amended) The apparatus as recited in claim 12, wherein the apparatus is operable such that the first interface-related data link layer component uses the first network-related data link layer header bits by removing the first network-related data link layer header bits from another data unit, and the first interface-related network layer component uses the first network-related network layer header bits by removing the first network-related network layer header bits from the another data unit so that the sensor information is removed from the another data unit, before the sharing.

14. (Currently Amended) A non-transitory computer-readable medium of an automotive electronic control unit for storing a computer program product ~~for sharing information, the computer program product comprising~~ including code that, when executed by at least one hardware processor included in the automotive electronic control unit in communication with the non-transitory computer-readable medium, is for:

~~code for~~ receiving sensor information associated with a message received utilizing a first network protocol associated with a first network;

~~code for~~ in response to receiving the sensor information, issuing, by the at least one hardware processor and to a storage resource included in the automotive electronic control unit, a storage resource request ~~in connection with a~~ to access the storage resource included in the

automotive electronic control unit, for determining whether the storage resource included in the automotive electronic control unit is available to store the sensor information;

~~code for~~ determining whether a time-related threshold tracked after the issuance of the storage resource request has been reached in association with the determination whether the storage resource is available;

~~code for,~~ when the storage resource included in the automotive electronic control unit is determined to not be available and the threshold associated with the determination whether the storage resource is available has not been reached, issuing, by the at least one hardware processor to the storage resource included in the automotive electronic control unit, another storage resource request ~~in connection with~~ to access the storage resource included in the automotive electronic control unit to store the sensor information;

~~code for,~~ when the storage resource included in the automotive electronic control unit is determined to not be available and the threshold associated with determination whether the storage resource is available has been reached, ceasing repeating issuance of another storage resource request~~sending a notification~~; and

~~code for,~~ when the storage resource included in the automotive electronic control unit is determined to be available, storing the sensor information utilizing the storage resource;

wherein the computer program product is operable such that the sensor information is capable of being shared in less than one second utilizing [[an]]the automotive electronic control unit that remains in hardwired communication with the first network and a second network, and that includes a plurality of interfaces including:

a first interface for interfacing with the first network~~, the first interface including a first interface-related data link layer component for using first network-related data link layer header bits and a first interface-related network layer component for using first network-related network layer header bits~~, where the first network is ~~at least~~ one of a Controller Area Network, a Flexray network, or a Local Interconnect Network; and

a second interface for interfacing with the second network, where the second network is another one of the Controller Area Network, the Flexray network, or the Local Interconnect Network~~, the second interface including a second interface-related data link layer component for using second network-related data link layer header bits~~.

15. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that the sensor information reaches a destination on the second network in less than one second.

16. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that the sensor information reaches a destination on the second network in less than a millisecond.

17. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that a duration between the sensor information being received and the sharing being completed is less than one second.

18. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that a duration between the sensor information being received and the sharing being completed is less than a millisecond.

19. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that the sharing of the sensor information is completed in less than a millisecond.

20. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is configured for sharing the sensor information in the form of automotive sensor data received via the first network for use in connection with an automotive device on the second network, in less than the one millisecond second.

21. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the storage resource request and the another storage resource request are identical.

22. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the storage resource request and the another storage resource request are the same.

23. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the sensor information excludes all header bits of the message.

24. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the sensor information excludes at least a portion of any header bits of the message.

25. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the storage resource includes a bulletin board.

26. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the error notification is sent, when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request, to not be available and the threshold tracked since the issuance of the storage resource request has been reached.

27. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the error notification is sent, when the storage resource included in the automotive electronic control unit is determined, in response to issuing the another storage resource request, to not be available and the threshold tracked since the issuance of the storage resource request has been reached.

28. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the error notification is sent, when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request and the another storage resource request, to not be available and the threshold tracked since the issuance of the storage resource request has been reached.

29. (New) The apparatus as recited in claim 8, wherein at least one of:

the memory storage includes the storage resource;

the memory storage does not include the storage resource;

the storage resource is part of the memory storage;

the storage resource is not part of the memory storage;

the sensor information includes original data received from a sensor or derived data derived from original data received from the sensor;

the threshold is time-related;

the threshold is a timeout;

the threshold includes a duration threshold;

the threshold does not include a duration threshold;

the threshold is configurable;

the storage resource included in the automotive electronic control unit is determined to be available, when the automotive electronic control unit gets the storage resource;

the storage resource included in the automotive electronic control unit is determined to be available, when the automotive electronic control unit gets access to the storage resource;

the storage resource included in the automotive electronic control unit is determined to be not available, when the automotive electronic control unit does not get the storage resource;

the storage resource included in the automotive electronic control unit is determined to be not available, when the automotive electronic control unit does not get access to the storage resource;

the second interface-related data link layer component includes a data link layer component related to the second interface;

the data link layer component is a component that operates in a data link layer;

the data link layer component is a component that operates using the data link layer header bits;

the second interface-related network layer component includes a network layer component related to the second interface;

the network layer component is a component that operates in a network layer;

the network layer component is a component that operates using network layer header bits;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides directly below the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides below the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides directly adjacent the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides adjacent the network layer;

the network-related data link layer header bits are relate to a particular network; or

the network-related network layer header bits are relate to a particular network.

30. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the information associated with the message is identified in another storage resource that stores the information after the message is received.

31. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the information associated with the message is identified in another storage resource that stores the information after the message is received and before the information is stored utilizing the storage resource, the another storage resource capable of being used for information storage, regardless as to a particular network with which the information is shared.

32. (New) The apparatus as recited in claim 31, wherein the apparatus is operable such that the information is stored utilizing the another storage resource in response to a corresponding request that is separate from the storage resource request.

33. (New) The apparatus as recited in claim 8, wherein at least one of:

the memory storage includes the storage resource;

the memory storage does not include the storage resource;

the storage resource is part of the memory storage;

the storage resource is not part of the memory storage;

the storage resource includes a bulletin board;

the storage resource does not include a bulletin board;

the storage resource includes a database;

the storage resource does not include a database;

the storage resource is not a buffer;

the information is shared utilizing a data unit, the data unit including a packet data unit;

the information is shared utilizing a data unit, the data unit including a packet;

the first network-related data link layer header bits and the first network-related network layer header bits, are removed from a data unit of the message;

the first network-related data link layer header bits and the first network-related network layer header bits, are removed from a data unit that is the message;

the first network-related data link layer header bits and the first network-related network layer header bits, are removed from a data unit that includes the message;

the first network-related data link layer header bits and the first network-related network layer header bits, are removed from a data unit that is included in the message;

the second network-related data link layer header bits and the second network-related network layer header bits, are added to a data unit of another message;

the second network-related data link layer header bits and the second network-related network layer header bits, are added to a data unit that is another message;

the second network-related data link layer header bits and the second network-related network layer header bits, are added to a data unit that includes another message;

the second network-related data link layer header bits and the second network-related network layer header bits, are added to a data unit that is included in another message;

the first interface is for interfacing a Controller Area Network and the second interface is for interfacing a Flexray network, and the storage resource is capable of being used to store other information that is received associated with another message received utilizing a Flexray network protocol associated with the Flexray network;

the first interface is for interfacing a Controller Area Network and the second interface is for interfacing a Flexray network, and the storage resource is incapable of being used to store other information that is received associated with another message received utilizing a Flexray network protocol associated with the Flexray network;

the first interface is for interfacing a Controller Area Network and the second interface is for interfacing a Flexray network, and the storage resource is capable of being used to store other information that is received associated with another message received utilizing a Local Interconnect Network protocol associated with a Local Interconnect Network;

the first interface is for interfacing a Controller Area Network and the second interface is for interfacing a Flexray network, and the storage resource is incapable of being used to store other information that is received associated with another message received utilizing a Local Interconnect Network protocol associated with a Local Interconnect Network;

the first interface is for interfacing a Controller Area Network and the second interface is for interfacing a Flexray network, and the storage resource is capable of being used to store other information that is sent with another message utilizing a Local Interconnect Network protocol associated with a Local Interconnect Network;

the first interface is for interfacing a Controller Area Network and the second interface is for interfacing a Flexray network, and the storage resource is incapable of being used to store other information that is sent with another message utilizing another network type other than the Flexray network type;

the storage resource is used for non-exclusively storing an information subset that is sent to a particular type of network;

the storage resource is used for exclusively storing an information subset that is sent to a particular type of network;

the storage resource is used for information storage, regardless as to a particular network on which shared information is sent;

the storage resource is used for information storage, based on a particular network on which shared information is sent;

the storage resource is used for information storage for only a single particular network type on which shared information is sent;

the storage resource is not used for information storage for only a single particular network type on which shared information is sent;

the storage resource is part of a gateway;

the storage resource is not part of a gateway;

the storage resource is part of a gateway implemented by the automotive electronic control unit;

the storage resource is not part of a gateway implemented by the automotive electronic control unit;

the storage resource is used for gatewaying;

the storage resource is not used for gatewaying;

the storage resource receives the information from a gateway that receives the information;

the storage resource receives the information from a gateway that shares the information;

the storage resource receives the information from a gateway of the automotive electronic control unit;

the in response, includes a direct response;

the in response, includes an indirect response;

the in response, includes a direct response without any intermediate operation;

the in response, includes an indirect response with at least one intermediate operation;

the storage resource is part of a gateway of the automotive electronic control unit;

the storage resource is not part of a gateway of the automotive electronic control unit;

the storage resource is used for exclusively storing an information subset that is sent to a particular type of network;

the storage resource is used for exclusively storing an information subset that is sent only to a particular network;

the storage resource is capable of being used for storing any information that is sent to any type of network;

the sensor information includes original data received from a sensor or derived data derived from original data received from the sensor;

the threshold is time-related;

the threshold is a timeout;

the threshold includes a duration threshold;

the threshold does not include a duration threshold;

the threshold is a retry count;

the threshold is configurable;

the storage resource is determined to be available, when the automotive electronic control unit gets the storage resource;

the storage resource is determined to be available, when the automotive electronic control unit gets access to the storage resource;

the storage resource is determined to be not available, when the automotive electronic control unit does not get the storage resource;

the storage resource is determined to be not available, when the automotive electronic control unit does not get access to the storage resource;

the storage resource is one of a plurality of storage resources;

the storage resource is a single storage resource;

the storage resource is one of a plurality of storage resources that are configured depending on a communication system topology;

the storage resource is one of a plurality of storage resources each associated with at least one of a plurality of interfaces;

the storage resource is shared amongst a plurality of outgoing communications to a plurality of the Controller Area Network type, the Flexray network type, and the Local Interconnect Network type;

the storage resource is not shared amongst a plurality of outgoing communications to a plurality of the Controller Area Network type, the Flexray network type, and the Local Interconnect Network type;

the storage resource is shared amongst the first interface and the second interface;

the storage resource is not shared amongst the first interface and the second interface;

the shared information is shared from the storage resource;

the shared information is shared directly from the storage resource;

the shared information is shared indirectly from the storage resource;

it is determined whether the storage resource is available, by the issuance of the storage resource request thereto;

it is determined whether the storage resource is available, by the issuance of the storage resource request;

it is determined whether the storage resource is available, based on a response to the issued storage resource request;

it is determined whether the storage resource is available, based on a response to the issued storage resource request;

it is determined whether the storage resource is available, using explicit resource management;

the second interface-related data link layer component includes a data link layer component related to the second interface;

each data link layer component is a component that operates in a data link layer;

each data link layer component is a component that operates using corresponding data link layer header bits;

the second interface-related network layer component includes a network layer component related to the second interface;

the sharing includes sending;

the sharing is sending;

the sharing is accomplished by sending;

each network layer component is a component that operates in a network layer;

each network layer component is a component that operates using corresponding network layer header bits;

the data link layer component is a component that supports at least one function of a data link layer, and the network layer component is a component that supports at least one function of a network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides directly below the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides below the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides directly adjacent the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides adjacent the network layer;

the first network-related network layer header bits relate to a particular node of the first network;

the first network-related data link layer header bits do not relate to a particular node of the first network;

the second network-related network layer header bits relate to a particular node of the second network;

the second network-related data link layer header bits relate to a particular node of the second;

the first network-related network layer header bits are utilized for addressing;

the first network-related network layer header bits are not used for addressing;

the second network-related network layer header bits are utilized for addressing;

the second network-related network layer header bits are not used for addressing;

the second network-related network layer header bits are not used for certain addressing;

the first network-related network layer header bits are utilized for addressing from a particular node of the first network;

the first network-related network layer header bits are not used for addressing from a particular node of the first network;

the first network-related network layer header bits are utilized for addressing to a particular node of the second network;

the first network-related network layer header bits are not used for addressing to a particular node of the second network;

the second network-related network layer header bits are utilized for addressing to a particular node of the second network;

the second network-related network layer header bits are not used for addressing to a particular node of the second network;

the first network-related network layer header bits are utilized for addressing generally to the first network;

the first network-related network layer header bits are not used for addressing generally to the first network;

the second network-related network layer header bits are utilized for addressing to the second network;

the second network-related network layer header bits are not used for addressing to the second network;

the first network-related data link layer header bits do not relate to a particular node of the first network;

the second network-related network layer header bits relate to a particular node of the second network; or

the second network-related data link layer header bits relate to a particular node of the second.

For Filing

From: Anya, Charles <Charles.Anya@USPTO.GOV>
Sent: Monday, August 9, 2021 7:54 AM
To: Patrick E. Caldwell
Subject: RE: 16/042,159 (SVIPGP061H) Proposed Amendment

Hello Mr. Penilla,
Thanks for the prompt response.
I will now prepare the Examiner's Amendment.

Thanks,
Examiner Anya.

From: Patrick E. Caldwell <pcaldwell@thecaldwellfirm.com>
Sent: Friday, August 6, 2021 11:42 AM
To: Anya, Charles <Charles.Anya@USPTO.GOV>
Subject: 16/042,159 (SVIPGP061H) Proposed Amendment

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Examiner Anya,
Please consider the attached proposed amendment, which may be entered in exchange for an allowance.
--

Thanks,
Patrick

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From: Anya, Charles <Charles.Anya@USPTO.GOV>
Sent: Monday, August 9, 2021 10:32 AM
To: Patrick E. Caldwell
Subject: RE: 16/042,159 (SVIPGP061H) Proposed Amendment

Hello,
Please forgive me but i would like to reschedule the 2pm interview.

Thanks,
Examiner Anya.

From: Patrick E. Caldwell <pcaldwell@thecaldwellfirm.com>
Sent: Friday, August 6, 2021 11:42 AM
To: Anya, Charles <Charles.Anya@USPTO.GOV>
Subject: 16/042,159 (SVIPGP061H) Proposed Amendment

CAUTION: This email has originated from a source outside of USPTO. **PLEASE CONSIDER THE SOURCE** before responding, clicking on links, or opening attachments.

Examiner Anya,
Please consider the attached proposed amendment, which may be entered in exchange for an allowance.
--

Thanks,
Patrick

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IN THE CLAIMS

1. (Currently Amended) A system, comprising:

an automotive electronic control unit including a memory storage comprising instructions, and at least one hardware processor in hardwired communication with the memory storage, wherein the at least one hardware processor executes the instructions [[configured]] for:

receiving sensor information associated with a message;

in response to receiving the sensor information, issuing, by the at least one hardware processor and to a storage resource included in the automotive electronic control unit, a storage resource request ~~in connection with a~~ to access the storage resource included in the automotive electronic control unit to store the sensor information and, in response to issuing the storage resource request, determining whether the storage resource is available to store the sensor information;

determining whether a threshold tracked since the issuance of the storage resource request has been reached indicating that the storage resource has not been available in association with the threshold tracked since the issuance of the storage resource request;

when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request, to not be available and the threshold ~~associated with~~ tracked since the issuance of the storage resource request has not been reached indicating that the storage resource has not been available in association with the threshold tracked since the issuance of the storage resource request, issuing, by the at least one hardware processor to the storage resource included in the automotive electronic control unit, another storage resource request ~~in connection with~~ to access the storage resource included in the automotive electronic control unit to store the sensor information;

when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request or the another storage resource request, to not be available and the threshold ~~associated with~~ tracked since the issuance of the storage resource request has been reached, sending an error notification; and

when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request or the another storage resource request, to be available, storing the sensor information utilizing the storage resource;

wherein the automotive electronic control unit is operable such that the sensor information is capable of being shared in less than one second, and the automotive electronic control unit includes a plurality of interfaces including:

a first interface; and

a second interface for interfacing with a network, ~~the second interface including a second interface-related data link layer component for using network-related data link layer header bits and a second interface-related network layer component for using network-related network layer header bits,~~ where the network is at least one of a Controller Area Network, a Flexray network, or a Local Interconnect Network.

2. (Currently Amended) The system as recited in claim 1, wherein the system is operable such that the sensor information reaches a destination on the network in less than one second.

3. (Currently Amended) The system as recited in claim 1, wherein the system is operable such that the sensor information reaches a destination on the network in less than a millisecond.

4. (Currently Amended) The system as recited in claim 1, wherein the system is operable such that a duration between the sensor information being received and being shared is less than one second.

5. (Currently Amended) The system as recited in claim 1, wherein the system is operable such that a duration between the sensor information being received and the sharing being completed is less than a millisecond.

6. (Currently Amended) The system as recited in claim 1, wherein the system is operable such that the sensor information is shared in less than a millisecond.

7. (Previously Presented) The system as recited in claim 6, wherein the system is configured for sharing automotive sensor data between heterogeneous networks with sufficient speed for use in connection with an automotive device.

8. (Currently Amended) An apparatus, comprising:

an automotive electronic control unit including a memory storage comprising instructions, and at least one hardware processor in hardwired communication with the memory storage, wherein the at least one hardware processor executes the instructions [[configured]] for:

identifying sensor information associated with a message received utilizing a first network protocol associated with a first network;

in response to identifying the sensor information, issuing, by the at least one hardware processor and to a storage resource included in the automotive electronic control unit, a storage resource request ~~in connection with a~~ to access the storage resource included in the automotive electronic control unit to store the sensor information and, in response to issuing the storage resource request, determining whether the storage resource is available to store the sensor information;

determining whether a threshold tracked since the issuance of the storage resource request has been reached indicating that the storage resource has not been available in association with the threshold tracked since the issuance of the storage resource request;

in the event the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request, to not be available and the threshold ~~associated with~~ tracked since the issuance of the storage resource request has not been reached indicating that the storage resource has not been available in association with the threshold tracked since the issuance of the storage resource request, issuing, by the at least one hardware processor to the storage resource included in the automotive electronic control unit, another storage resource request ~~in connection with~~ to access the storage resource included in the automotive electronic control unit to store the sensor information;

in the event the storage resource included in the automotive electronic control unit is determined, in response to issuing the another storage resource request, to not be

available and the threshold ~~associated with~~ tracked since the issuance of the storage resource request has been reached, sending an error notification; and

in the event the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request or the another storage resource request, to be available, storing the sensor information utilizing the storage resource;

wherein the apparatus is operable such that the sensor information is capable of being shared in less than one second utilizing a second network protocol associated with a second network, and the automotive electronic control unit remains in hardwired communication with the first network and the second network and includes:

a first interface for interfacing with the first network, the first interface including a first interface-related data link layer component for using first network-related data link layer header bits and a first interface-related network layer component for using first network-related network layer header bits, where the first network is at least one of a Controller Area Network type, a Flexray network type, or a Local Interconnect Network type; and

a second interface for interfacing with the second network, the second interface including a second interface-related data link layer component for using second network-related data link layer header bits and a second interface-related network layer component for using second network-related network layer header bits, where the second network is at least one of the Controller Area Network type, the Flexray network type, or the Local Interconnect Network type.

9. (Previously Presented) The apparatus as recited in claim 8, wherein the apparatus is operable such that network layer translation is capable of being avoided.

10. (Previously Presented) The apparatus as recited in claim 8, wherein the apparatus is configured for sharing automotive sensor data received via the first network for use in connection with an automotive device on the second network, in less than the one second.

11. (Previously Presented) The apparatus as recited in claim 8, wherein the apparatus is configured for sharing automotive sensor data received via the first network for use in connection with an automotive actuator on the second network, in less than a millisecond.

12. (Currently Amended) The apparatus as recited in claim 11, wherein the apparatus is operable such that the sensor information is shared by the second interface-related network layer component using the second network-related network layer header bits by adding the second network-related network layer header bits to a data unit including the sensor information, and then the second interface-related data link layer component using the second network-related data link layer header bits by adding the second network-related data link layer header bits to the data unit, before communicating the data unit on a physical link of the second network.

13. (Currently Amended) The apparatus as recited in claim 12, wherein the apparatus is operable such that the first interface-related data link layer component uses the first network-related data link layer header bits by removing the first network-related data link layer header bits from another data unit, and the first interface-related network layer component uses the first network-related network layer header bits by removing the first network-related network layer header bits from the another data unit so that the sensor information is removed from the another data unit, before the sharing.

14. (Currently Amended) A non-transitory computer-readable medium of an automotive electronic control unit for storing a computer program product ~~for sharing information, the computer program product comprising~~ including code that, when executed by at least one hardware processor included in the automotive electronic control unit in communication with the non-transitory computer-readable medium, is for:

~~code for~~ receiving sensor information associated with a message received utilizing a first network protocol associated with a first network;

~~code for~~ in response to receiving the sensor information, issuing, by the at least one hardware processor and to a storage resource included in the automotive electronic control unit, a storage resource request ~~in connection with a~~ to access the storage resource included in the

automotive electronic control unit, for determining whether the storage resource included in the automotive electronic control unit is available to store the sensor information;

~~code for~~ determining whether a time-related threshold tracked after the issuance of the storage resource request has been reached in association with the determination whether the storage resource is available;

~~code for,~~ when the storage resource included in the automotive electronic control unit is determined to not be available and the threshold associated with the determination whether the storage resource is available has not been reached, issuing, by the at least one hardware processor to the storage resource included in the automotive electronic control unit, another storage resource request ~~in connection with~~ to access the storage resource included in the automotive electronic control unit to store the sensor information;

~~code for,~~ when the storage resource included in the automotive electronic control unit is determined to not be available and the threshold associated with determination whether the storage resource is available has been reached, ceasing repeating issuance of another storage resource request~~sending a notification~~; and

~~code for,~~ when the storage resource included in the automotive electronic control unit is determined to be available, storing the sensor information utilizing the storage resource;

wherein the computer program product is operable such that the sensor information is capable of being shared in less than one second utilizing [[an]]the automotive electronic control unit that remains in hardwired communication with the first network and a second network, and that includes a plurality of interfaces including:

a first interface for interfacing with the first network~~, the first interface including a first interface-related data link layer component for using first network-related data link layer header bits and a first interface-related network layer component for using first network-related network layer header bits~~, where the first network is ~~at least~~ one of a Controller Area Network, a Flexray network, or a Local Interconnect Network; and

a second interface for interfacing with the second network, where the second network is another one of the Controller Area Network, the Flexray network, or the Local Interconnect Network~~, the second interface including a second interface-related data link layer component for using second network-related data link layer header bits~~.

15. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that the sensor information reaches a destination on the second network in less than one second.

16. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that the sensor information reaches a destination on the second network in less than a millisecond.

17. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that a duration between the sensor information being received and the sharing being completed is less than one second.

18. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that a duration between the sensor information being received and the sharing being completed is less than a millisecond.

19. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that the sharing of the sensor information is completed in less than a millisecond.

20. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is configured for sharing the sensor information in the form of automotive sensor data received via the first network for use in connection with an automotive device on the second network, in less than the one millisecond second.

21. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the storage resource request and the another storage resource request are identical.

22. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the storage resource request and the another storage resource request are the same.

23. (New) The apparatus as recited in claim 1, wherein the apparatus is operable such that the sensor information excludes all header bits of the message.

24. (New) The apparatus as recited in claim 1, wherein the apparatus is operable such that the sensor information excludes at least a portion of any header bits of the message.

25. (New) The apparatus as recited in claim 1, wherein the apparatus is operable such that the storage resource includes a bulletin board.

26. (New) The apparatus as recited in claim 1, wherein the apparatus is operable such that the error notification is sent, when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request, to not be available and the threshold tracked since the issuance of the storage resource request has been reached.

27. (New) The apparatus as recited in claim 1, wherein the apparatus is operable such that the error notification is sent, when the storage resource included in the automotive electronic control unit is determined, in response to issuing the another storage resource request, to not be available and the threshold tracked since the issuance of the storage resource request has been reached.

28. (New) The apparatus as recited in claim 1, wherein the apparatus is operable such that the error notification is sent, when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request and the another storage resource request, to not be available and the threshold tracked since the issuance of the storage resource request has been reached.

29. (New) The apparatus as recited in claim 8, wherein at least one of:

the memory storage includes the storage resource;

the memory storage does not include the storage resource;

the storage resource is part of the memory storage;

the storage resource is not part of the memory storage;

the sensor information includes original data received from a sensor or derived data derived from original data received from the sensor;

the threshold is time-related;

the threshold is a timeout;

the threshold includes a duration threshold;

the threshold does not include a duration threshold;

the threshold is configurable;

the storage resource included in the automotive electronic control unit is determined to be available, when automotive electronic control unit gets the storage resource;

the storage resource included in the automotive electronic control unit is determined to be available, when automotive electronic control unit gets access to the storage resource;

the storage resource included in the automotive electronic control unit is determined to be not available, when automotive electronic control unit does not get the storage resource;

the storage resource included in the automotive electronic control unit is determined to be not available, when automotive electronic control unit does not get access to the storage resource;

the second interface-related data link layer component includes a data link layer component related to the second interface;

the data link layer component is a component that operates in a data link layer;

the data link layer component is a component that operates using the data link layer header bits;

the second interface-related network layer component includes a network layer component related to the second interface;

the network layer component is a component that operates in a network layer;

the network layer component is a component that operates using network layer header bits;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides directly below the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides below the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides directly adjacent the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides adjacent the network layer;

the network-related data link layer header bits are relate to a particular network; or

the network-related network layer header bits are relate to a particular network.

For Filing

From: Anya, Charles <Charles.Anya@USPTO.GOV>
Sent: Wednesday, August 11, 2021 10:37 AM
To: Patrick E. Caldwell
Subject: RE: 16/042,159 (SVIPGP061H) NEW Proposed Amendment

Hello Mr. Caldwell,
Again, please forgive me for the short notice.
I consider the amendment and update you.

Thanks,
Charles.

From: Patrick E. Caldwell <pcaldwell@thecaldwellfirm.com>
Sent: Tuesday, August 10, 2021 9:32 PM
To: Anya, Charles <Charles.Anya@USPTO.GOV>
Subject: 16/042,159 (SVIPGP061H) NEW Proposed Amendment

CAUTION: This email has originated from a source outside of USPTO. **PLEASE CONSIDER THE SOURCE** before responding, clicking on links, or opening attachments.

Examiner Anya,
Please consider the attached proposed amendment, which may be entered in exchange for an allowance.
--

Thanks,
Patrick

Patrick E. Caldwell, Esq.
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IN THE CLAIMS

1. (Currently Amended) A system, comprising:

an automotive electronic control unit including a memory storage comprising instructions, and at least one hardware processor in hardwired communication with the memory storage, wherein the at least one hardware processor executes the instructions [[configured]] for:

receiving sensor information associated with a message;

in response to receiving the sensor information, issuing, by the at least one hardware processor and to a storage resource included in the automotive electronic control unit, a storage resource request ~~in connection with a~~ to access the storage resource included in the automotive electronic control unit to store the sensor information and, in response to issuing the storage resource request, determining whether the storage resource is available to store the sensor information;

determining whether a threshold tracked since the issuance of the storage resource request has been reached indicating that the storage resource has not been available in association with the threshold tracked since the issuance of the storage resource request;

when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request, to not be available and the threshold ~~associated with~~ tracked since the issuance of the storage resource request has not been reached indicating that the storage resource has not been available in association with the threshold tracked since the issuance of the storage resource request, issuing, by the at least one hardware processor to the storage resource included in the automotive electronic control unit, another storage resource request ~~in connection with~~ to access the storage resource included in the automotive electronic control unit to store the sensor information;

when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request or the another storage resource request, to not be available and the threshold ~~associated with~~ tracked since the issuance of the storage resource request has been reached, sending an error notification; and

when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request or the another storage resource request, to be available, storing the sensor information utilizing the storage resource;

wherein the automotive electronic control unit is operable such that the sensor information is capable of being shared in less than one second, and the automotive electronic control unit includes a plurality of interfaces including:

a first interface; and

a second interface for interfacing with a network, ~~the second interface including a second interface-related data link layer component for using network-related data link layer header bits and a second interface-related network layer component for using network-related network layer header bits,~~ where the network is at least one of a Controller Area Network, a Flexray network, or a Local Interconnect Network.

2. (Currently Amended) The system as recited in claim 1, wherein the system is operable such that the sensor information reaches a destination on the network in less than one second.

3. (Currently Amended) The system as recited in claim 1, wherein the system is operable such that the sensor information reaches a destination on the network in less than a millisecond.

4. (Currently Amended) The system as recited in claim 1, wherein the system is operable such that a duration between the sensor information being received and being shared is less than one second.

5. (Currently Amended) The system as recited in claim 1, wherein the system is operable such that a duration between the sensor information being received and the sharing being completed is less than a millisecond.

6. (Currently Amended) The system as recited in claim 1, wherein the system is operable such that the sensor information is shared in less than a millisecond.

7. (Previously Presented) The system as recited in claim 6, wherein the system is configured for sharing automotive sensor data between heterogeneous networks with sufficient speed for use in connection with an automotive device.

8. (Currently Amended) An apparatus, comprising:

an automotive electronic control unit including a memory storage comprising instructions, and at least one hardware processor in hardwired communication with the memory storage, wherein the at least one hardware processor executes the instructions [[configured]] for:

identifying sensor information associated with a message received utilizing a first network protocol associated with a first network;

in response to identifying the sensor information, issuing, by the at least one hardware processor and to a storage resource included in the automotive electronic control unit, a storage resource request ~~in connection with a~~ to access the storage resource included in the automotive electronic control unit to store the sensor information and, in response to issuing the storage resource request, determining whether the storage resource is available to store the sensor information;

determining whether a threshold tracked since the issuance of the storage resource request has been reached indicating that the storage resource has not been available in association with the threshold tracked since the issuance of the storage resource request;

in the event the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request, to not be available and the threshold ~~associated with~~ tracked since the issuance of the storage resource request has not been reached indicating that the storage resource has not been available in association with the threshold tracked since the issuance of the storage resource request, issuing, by the at least one hardware processor to the storage resource included in the automotive electronic control unit, another storage resource request ~~in connection with~~ to access the storage resource included in the automotive electronic control unit to store the sensor information;

in the event the storage resource included in the automotive electronic control unit is determined, in response to issuing the another storage resource request, to not be

available and the threshold ~~associated with~~ tracked since the issuance of the storage resource request has been reached, sending an error notification; and

in the event the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request or the another storage resource request, to be available, storing the sensor information utilizing the storage resource;

wherein the apparatus is operable such that the sensor information is capable of being shared in less than one second utilizing a second network protocol associated with a second network, and the automotive electronic control unit remains in hardwired communication with the first network and the second network and includes:

a first interface for interfacing with the first network, the first interface including a first interface-related data link layer component for using first network-related data link layer header bits and a first interface-related network layer component for using first network-related network layer header bits, where the first network is at least one of a Controller Area Network type, a Flexray network type, or a Local Interconnect Network type; and

a second interface for interfacing with the second network, the second interface including a second interface-related data link layer component for using second network-related data link layer header bits and a second interface-related network layer component for using second network-related network layer header bits, where the second network is at least one of the Controller Area Network type, the Flexray network type, or the Local Interconnect Network type.

9. (Previously Presented) The apparatus as recited in claim 8, wherein the apparatus is operable such that network layer translation is capable of being avoided.

10. (Previously Presented) The apparatus as recited in claim 8, wherein the apparatus is configured for sharing automotive sensor data received via the first network for use in connection with an automotive device on the second network, in less than the one second.

11. (Previously Presented) The apparatus as recited in claim 8, wherein the apparatus is configured for sharing automotive sensor data received via the first network for use in connection with an automotive actuator on the second network, in less than a millisecond.

12. (Currently Amended) The apparatus as recited in claim 11, wherein the apparatus is operable such that the sensor information is shared by the second interface-related network layer component using the second network-related network layer header bits by adding the second network-related network layer header bits to a data unit including the sensor information, and then the second interface-related data link layer component using the second network-related data link layer header bits by adding the second network-related data link layer header bits to the data unit, before communicating the data unit on a physical link of the second network.

13. (Currently Amended) The apparatus as recited in claim 12, wherein the apparatus is operable such that the first interface-related data link layer component uses the first network-related data link layer header bits by removing the first network-related data link layer header bits from another data unit, and the first interface-related network layer component uses the first network-related network layer header bits by removing the first network-related network layer header bits from the another data unit so that the sensor information is removed from the another data unit, before the sharing.

14. (Currently Amended) A non-transitory computer-readable medium of an automotive electronic control unit for storing a computer program product ~~for sharing information, the computer program product comprising~~ including code that, when executed by at least one hardware processor included in the automotive electronic control unit in communication with the non-transitory computer-readable medium, is for:

~~code for~~ receiving sensor information associated with a message received utilizing a first network protocol associated with a first network;

~~code for~~ in response to receiving the sensor information, issuing, by the at least one hardware processor and to a storage resource included in the automotive electronic control unit, a storage resource request ~~in connection with a~~ to access the storage resource included in the

automotive electronic control unit, for determining whether the storage resource included in the automotive electronic control unit is available to store the sensor information;

~~code for~~ determining whether a time-related threshold tracked after the issuance of the storage resource request has been reached in association with the determination whether the storage resource is available;

~~code for,~~ when the storage resource included in the automotive electronic control unit is determined to not be available and the threshold associated with the determination whether the storage resource is available has not been reached, issuing, by the at least one hardware processor to the storage resource included in the automotive electronic control unit, another storage resource request ~~in connection with~~ to access the storage resource included in the automotive electronic control unit to store the sensor information;

~~code for,~~ when the storage resource included in the automotive electronic control unit is determined to not be available and the threshold associated with determination whether the storage resource is available has been reached, ceasing repeating issuance of another storage resource request~~sending a notification~~; and

~~code for,~~ when the storage resource included in the automotive electronic control unit is determined to be available, storing the sensor information utilizing the storage resource;

wherein the computer program product is operable such that the sensor information is capable of being shared in less than one second utilizing [[an]]the automotive electronic control unit that remains in hardwired communication with the first network and a second network, and that includes a plurality of interfaces including:

a first interface for interfacing with the first network~~, the first interface including a first interface-related data link layer component for using first network-related data link layer header bits and a first interface-related network layer component for using first network-related network layer header bits~~, where the first network is ~~at least~~ one of a Controller Area Network, a Flexray network, or a Local Interconnect Network; and

a second interface for interfacing with the second network, where the second network is another one of the Controller Area Network, the Flexray network, or the Local Interconnect Network~~, the second interface including a second interface-related data link layer component for using second network-related data link layer header bits~~.

15. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that the sensor information reaches a destination on the second network in less than one second.

16. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that the sensor information reaches a destination on the second network in less than a millisecond.

17. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that a duration between the sensor information being received and the sharing being completed is less than one second.

18. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that a duration between the sensor information being received and the sharing being completed is less than a millisecond.

19. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that the sharing of the sensor information is completed in less than a millisecond.

20. (Currently Amended) The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is configured for sharing the sensor information in the form of automotive sensor data received via the first network for use in connection with an automotive device on the second network, in less than the one millisecond second.

21. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the storage resource request and the another storage resource request are identical.

22. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the storage resource request and the another storage resource request are the same.

23. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the sensor information excludes all header bits of the message.

24. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the sensor information excludes at least a portion of any header bits of the message.

25. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the storage resource includes a bulletin board.

26. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the error notification is sent, when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request, to not be available and the threshold tracked since the issuance of the storage resource request has been reached.

27. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the error notification is sent, when the storage resource included in the automotive electronic control unit is determined, in response to issuing the another storage resource request, to not be available and the threshold tracked since the issuance of the storage resource request has been reached.

28. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the error notification is sent, when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request and the another storage resource request, to not be available and the threshold tracked since the issuance of the storage resource request has been reached.

29. (New) The apparatus as recited in claim 8, wherein at least one of:

the memory storage includes the storage resource;

the memory storage does not include the storage resource;

the storage resource is part of the memory storage;

the storage resource is not part of the memory storage;

the sensor information includes original data received from a sensor or derived data derived from original data received from the sensor;

the threshold is time-related;

the threshold is a timeout;

the threshold includes a duration threshold;

the threshold does not include a duration threshold;

the threshold is configurable;

the storage resource included in the automotive electronic control unit is determined to be available, when the automotive electronic control unit gets the storage resource;

the storage resource included in the automotive electronic control unit is determined to be available, when the automotive electronic control unit gets access to the storage resource;

the storage resource included in the automotive electronic control unit is determined to be not available, when the automotive electronic control unit does not get the storage resource;

the storage resource included in the automotive electronic control unit is determined to be not available, when the automotive electronic control unit does not get access to the storage resource;

the second interface-related data link layer component includes a data link layer component related to the second interface;

the data link layer component is a component that operates in a data link layer;

the data link layer component is a component that operates using the data link layer header bits;

the second interface-related network layer component includes a network layer component related to the second interface;

the network layer component is a component that operates in a network layer;

the network layer component is a component that operates using network layer header bits;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides directly below the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides below the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides directly adjacent the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides adjacent the network layer;

the network-related data link layer header bits are relate to a particular network; or

the network-related network layer header bits are relate to a particular network.

30. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the information associated with the message is identified in another storage resource that stores the information after the message is received.

31. (New) The apparatus as recited in claim 8, wherein the apparatus is operable such that the information associated with the message is identified in another storage resource that stores the information after the message is received and before the information is stored utilizing the storage resource, the another storage resource capable of being used for information storage, regardless as to a particular network with which the information is shared.

32. (New) The apparatus as recited in claim 31, wherein the apparatus is operable such that the information is stored utilizing the another storage resource in response to a corresponding request that is separate from the storage resource request.

33. (New) The apparatus as recited in claim 8, wherein at least one of:

the memory storage includes the storage resource;

the memory storage does not include the storage resource;

the storage resource is part of the memory storage;

the storage resource is not part of the memory storage;

the storage resource includes a bulletin board;

the storage resource does not include a bulletin board;

the storage resource includes a database;

the storage resource does not include a database;

the storage resource is not a buffer;

the information is shared utilizing a data unit, the data unit including a packet data unit;

the information is shared utilizing a data unit, the data unit including a packet;

the first network-related data link layer header bits and the first network-related network layer header bits, are removed from a data unit of the message;

the first network-related data link layer header bits and the first network-related network layer header bits, are removed from a data unit that is the message;

the first network-related data link layer header bits and the first network-related network layer header bits, are removed from a data unit that includes the message;

the first network-related data link layer header bits and the first network-related network layer header bits, are removed from a data unit that is included in the message;

the second network-related data link layer header bits and the second network-related network layer header bits, are added to a data unit of another message;

the second network-related data link layer header bits and the second network-related network layer header bits, are added to a data unit that is another message;

the second network-related data link layer header bits and the second network-related network layer header bits, are added to a data unit that includes another message;

the second network-related data link layer header bits and the second network-related network layer header bits, are added to a data unit that is included in another message;

the first interface is for interfacing a Controller Area Network and the second interface is for interfacing a Flexray network, and the storage resource is capable of being used to store other information that is received associated with another message received utilizing a Flexray network protocol associated with the Flexray network;

the first interface is for interfacing a Controller Area Network and the second interface is for interfacing a Flexray network, and the storage resource is incapable of being used to store other information that is received associated with another message received utilizing a Flexray network protocol associated with the Flexray network;

the first interface is for interfacing a Controller Area Network and the second interface is for interfacing a Flexray network, and the storage resource is capable of being used to store other information that is received associated with another message received utilizing a Local Interconnect Network protocol associated with a Local Interconnect Network;

the first interface is for interfacing a Controller Area Network and the second interface is for interfacing a Flexray network, and the storage resource is incapable of being used to store other information that is received associated with another message received utilizing a Local Interconnect Network protocol associated with a Local Interconnect Network;

the first interface is for interfacing a Controller Area Network and the second interface is for interfacing a Flexray network, and the storage resource is capable of being used to store other information that is sent with another message utilizing a Local Interconnect Network protocol associated with a Local Interconnect Network;

the first interface is for interfacing a Controller Area Network and the second interface is for interfacing a Flexray network, and the storage resource is incapable of being used to store other information that is sent with another message utilizing another network type other than the Flexray network type;

the storage resource is used for non-exclusively storing an information subset that is sent to a particular type of network;

the storage resource is used for exclusively storing an information subset that is sent to a particular type of network;

the storage resource is used for information storage, regardless as to a particular network on which shared information is sent;

the storage resource is used for information storage, based on a particular network on which shared information is sent;

the storage resource is used for information storage for only a single particular network type on which shared information is sent;

the storage resource is not used for information storage for only a single particular network type on which shared information is sent;

the storage resource is part of a gateway;

the storage resource is not part of a gateway;

the storage resource is part of a gateway implemented by the automotive electronic control unit;

the storage resource is not part of a gateway implemented by the automotive electronic control unit;

the storage resource is used for gatewaying;

the storage resource is not used for gatewaying;

the storage resource receives the information from a gateway that receives the information;

the storage resource receives the information from a gateway that shares the information;

the storage resource receives the information from a gateway of the automotive electronic control unit;

the in response, includes a direct response;

the in response, includes an indirect response;

the in response, includes a direct response without any intermediate operation;

the in response, includes an indirect response with at least one intermediate operation;

the storage resource is part of a gateway of the automotive electronic control unit;

the storage resource is not part of a gateway of the automotive electronic control unit;

the storage resource is used for exclusively storing an information subset that is sent to a particular type of network;

the storage resource is used for exclusively storing an information subset that is sent only to a particular network;

the storage resource is capable of being used for storing any information that is sent to any type of network;

the sensor information includes original data received from a sensor or derived data derived from original data received from the sensor;

the threshold is time-related;

the threshold is a timeout;

the threshold includes a duration threshold;

the threshold does not include a duration threshold;

the threshold is a retry count;

the threshold is configurable;

the storage resource is determined to be available, when the automotive electronic control unit gets the storage resource;

the storage resource is determined to be available, when the automotive electronic control unit gets access to the storage resource;

the storage resource is determined to be not available, when the automotive electronic control unit does not get the storage resource;

the storage resource is determined to be not available, when the automotive electronic control unit does not get access to the storage resource;

the storage resource is one of a plurality of storage resources;

the storage resource is a single storage resource;

the storage resource is one of a plurality of storage resources that are configured depending on a communication system topology;

the storage resource is one of a plurality of storage resources each associated with at least one of a plurality of interfaces;

the storage resource is shared amongst a plurality of outgoing communications to a plurality of the Controller Area Network type, the Flexray network type, and the Local Interconnect Network type;

the storage resource is not shared amongst a plurality of outgoing communications to a plurality of the Controller Area Network type, the Flexray network type, and the Local Interconnect Network type;

the storage resource is shared amongst the first interface and the second interface;

the storage resource is not shared amongst the first interface and the second interface;

the shared information is shared from the storage resource;

the shared information is shared directly from the storage resource;

the shared information is shared indirectly from the storage resource;

it is determined whether the storage resource is available, by the issuance of the storage resource request thereto;

it is determined whether the storage resource is available, by the issuance of the storage resource request;

it is determined whether the storage resource is available, based on a response to the issued storage resource request;

it is determined whether the storage resource is available, based on a response to the issued storage resource request;

it is determined whether the storage resource is available, using explicit resource management;

the second interface-related data link layer component includes a data link layer component related to the second interface;

each data link layer component is a component that operates in a data link layer;

each data link layer component is a component that operates using corresponding data link layer header bits;

the second interface-related network layer component includes a network layer component related to the second interface;

the sharing includes sending;

the sharing is sending;

the sharing is accomplished by sending;

each network layer component is a component that operates in a network layer;

each network layer component is a component that operates using corresponding network layer header bits;

the data link layer component is a component that supports at least one function of a data link layer, and the network layer component is a component that supports at least one function of a network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides directly below the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides below the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides directly adjacent the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides adjacent the network layer;

the first network-related network layer header bits relate to a particular node of the first network;

the first network-related data link layer header bits do not relate to a particular node of the first network;

the second network-related network layer header bits relate to a particular node of the second network;

the second network-related data link layer header bits relate to a particular node of the second;

the first network-related network layer header bits are utilized for addressing;

the first network-related network layer header bits are not used for addressing;

the second network-related network layer header bits are utilized for addressing;

the second network-related network layer header bits are not used for addressing;

the second network-related network layer header bits are not used for certain addressing;

the first network-related network layer header bits are utilized for addressing from a particular node of the first network;

the first network-related network layer header bits are not used for addressing from a particular node of the first network;

the first network-related network layer header bits are utilized for addressing to a particular node of the second network;

the first network-related network layer header bits are not used for addressing to a particular node of the second network;

the second network-related network layer header bits are utilized for addressing to a particular node of the second network;

the second network-related network layer header bits are not used for addressing to a particular node of the second network;

the first network-related network layer header bits are utilized for addressing generally to the first network;

the first network-related network layer header bits are not used for addressing generally to the first network;

the second network-related network layer header bits are utilized for addressing to the second network;

the second network-related network layer header bits are not used for addressing to the second network;

the first network-related data link layer header bits do not relate to a particular node of the first network;

the second network-related network layer header bits relate to a particular node of the second network; or

the second network-related data link layer header bits relate to a particular node of the second.

UNITED STATES PATENT AND TRADEMARK OFFICE

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NOTICE OF ALLOWANCE AND FEE(S) DUE

92045 7590 10/05/2021

The Caldwell Firm, LLC
PO Box 59655
Dept. SVIPGP
Dallas, TX 75229

EXAMINER
ANYA, CHARLES E

ART UNIT	PAPER NUMBER
2194	

DATE MAILED: 10/05/2021

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/042,159	07/23/2018	Axel Fuchs	SVIPGP061H	9106

TITLE OF INVENTION: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	01/05/2022

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 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity 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 and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

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

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

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

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 including the Patent, advance orders and notification of maintenance fees 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.

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

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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 EFS-Web 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.
16/042,159	07/23/2018	Axel Fuchs	SVIPGP061H	9106

TITLE OF INVENTION: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	01/05/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS
ANYA, CHARLES E	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/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 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) ❑Advance Order - # of Copies _____

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

❑ Electronic Payment via EFS-Web ❑ 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. _____

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/042,159	07/23/2018	Axel Fuchs	SVIPGP061H	9106

92045 7590 10/05/2021

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Dallas, TX 75229

EXAMINER	
ANYA, CHARLES E	

ART UNIT	PAPER NUMBER
2194	

DATE MAILED: 10/05/2021

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. 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:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
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 inspection 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.

Notice of Allowability	Application No. 16/042,159	Applicant(s) Fuchs et al.	
	Examiner CHARLES E ANYA	Art Unit 2194	AIA (FITF) Status No

-- 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 04/26/21 and interview of 08/11/21.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

3. ☑ The allowed claim(s) is/are 1-33 . 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 12/30/20; 04/26/21.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☑ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/CHARLES E ANYA/
Primary Examiner, Art Unit 2194

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in an interview with Mr. Patrick E. Caldwell (Reg. No. 44,580) on 08/11/21.

The application has been amended as follows:

Claim 1:

A system, comprising:

an automotive electronic control unit including a memory storage comprising instructions, and at least one hardware processor in hardwired communication with the memory storage, wherein the at least one hardware processor executes the instructions [[configured]] for:

receiving sensor information associated with a message;

in response to receiving the sensor information, issuing, by the at least one hardware processor and to a storage resource included in the automotive electronic control unit, a storage resource request ~~in connection~~

~~with a~~ to access the storage resource included in the automotive electronic control unit to store the sensor information and, in response to issuing the storage resource request, determining whether the storage resource is available to store the sensor information;

determining whether a threshold tracked since the issuance of the storage resource request has been reached indicating that the storage resource has not been available in association with the threshold tracked since the issuance of the storage resource request;

when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request, to not be available and the threshold ~~associated with~~ tracked since the issuance of the storage resource request has not been reached indicating that the storage resource has not been available in association with the threshold tracked since the issuance of the storage resource request, issuing, by the at least one hardware processor to the storage resource included in the automotive electronic control unit, another storage resource request ~~in connection with~~ to access the storage resource included in the automotive electronic control unit to store the sensor information;

when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request or the another storage resource request, to not be available and the threshold ~~associated with~~ tracked since the issuance of the storage resource request has been reached, sending an error notification; and

when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request or the another storage resource request, to be available, storing the sensor information utilizing the storage resource;

wherein the automotive electronic control unit is operable such that the sensor information is capable of being shared in less than one second, and the automotive electronic control unit includes a plurality of interfaces including:

a first interface; and

a second interface for interfacing with a network, ~~the second interface including a second interface-related data link layer component for using network-related data link layer header bits and a second interface-related network layer component for using network-related network layer header bits,~~ where the network is at least one of

a Controller Area Network, a Flexray network, or a Local Interconnect Network.

Claim 2:

The system as recited in claim 1, wherein the system is operable such that the sensor information reaches a destination on the network in less than one second.

Claim 3:

The system as recited in claim 1, wherein the system is operable such that the sensor information reaches a destination on the network in less than a millisecond.

Claim 4:

The system as recited in claim 1, wherein the system is operable such that a duration between the sensor information being received and being shared is less than one second.

Claim 5:

The system as recited in claim 1, wherein the system is operable such that a duration between the sensor information being received and the sharing being completed is less than a millisecond.

Claim 6:

The system as recited in claim 1, wherein the system is operable such that the sensor information is shared in less than a millisecond.

Claim 7:

The system as recited in claim 6, wherein the system is configured for sharing automotive sensor data between heterogeneous networks with sufficient speed for use in connection with an automotive device.

Claim 8:

An apparatus, comprising:

an automotive electronic control unit including a memory storage comprising instructions, and at least one hardware processor in hardwired communication with the memory storage, wherein the at least one hardware processor executes the instructions [[configured]] for:

identifying sensor information associated with a message received utilizing a first network protocol associated with a first network;

in response to identifying the sensor information, issuing, by the at least one hardware processor and to a storage resource included in the automotive electronic control unit, a storage resource request ~~in connection with a~~ to access the storage resource included in the automotive electronic control unit to store the sensor information and, in response to issuing the storage resource request, determining whether the storage resource is available to store the sensor information;

determining whether a threshold tracked since the issuance of the storage resource request has been reached indicating that the storage resource has not been available in association with the threshold tracked since the issuance of the storage resource request;

in the event the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request, to not be available and the threshold ~~associated with~~

tracked since the issuance of the storage resource request has not been reached indicating that the storage resource has not been available in association with the threshold tracked since the issuance of the storage resource request, issuing, by the at least one hardware processor to the storage resource included in the automotive electronic control unit, another storage resource request ~~in connection with~~ to access the storage resource included in the automotive electronic control unit to store the sensor information;

in the event the storage resource included in the automotive electronic control unit is determined, in response to issuing the another storage resource request, to not be available and the threshold ~~associated with~~ tracked since the issuance of the storage resource request has been reached, sending an error notification; and

in the event the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request or the another storage resource request, to be available, storing the sensor information utilizing the storage resource;

wherein the apparatus is operable such that the sensor information is capable of being shared in less than one second utilizing a second network protocol associated with a second network, and the automotive electronic

control unit remains in hardwired communication with the first network and the second network and includes:

a first interface for interfacing with the first network, the first interface including a first interface-related data link layer component for using first network-related data link layer header bits and a first interface-related network layer component for using first network-related network layer header bits, where the first network is at least one of a Controller Area Network type, a Flexray network type, or a Local Interconnect Network type; and

a second interface for interfacing with the second network, the second interface including a second interface-related data link layer component for using second network-related data link layer header bits and a second interface-related network layer component for using second network-related network layer header bits, where the second network is at least one of the Controller Area Network type, the Flexray network type, or the Local Interconnect Network type.

Claim 9:

The apparatus as recited in claim 8, wherein the apparatus is operable such that network layer translation is capable of being avoided.

Claim 10:

The apparatus as recited in claim 8, wherein the apparatus is configured for sharing automotive sensor data received via the first network for use in connection with an automotive device on the second network, in less than the one second.

Claim 11:

The apparatus as recited in claim 8, wherein the apparatus is configured for sharing automotive sensor data received via the first network for use in connection with an automotive actuator on the second network, in less than a millisecond.

Claim 12:

The apparatus as recited in claim 11, wherein the apparatus is operable such that the sensor information is shared by the second interface-related network layer component using the second network-related network layer header bits by adding the second network-related network layer header bits to a data unit including the sensor information, and then the second interface-related data link layer component using the second network-related data link layer header bits by adding the second network-related data link layer header bits to the data unit, before communicating the data unit on a physical link of the second network.

Claim 13:

The apparatus as recited in claim 12, wherein the apparatus is operable such that the first interface-related data link layer component uses the first network-related data link layer header bits by removing the first network-related data link layer header bits from another data unit, and the first interface-related network layer component uses the first network-related network layer header bits by removing the first network-related network layer header bits from the another data unit so that the sensor information is removed from the another data unit, before the sharing.

Claim 14:

A non-transitory computer-readable medium of an automotive electronic control unit for storing a computer program product ~~for sharing information, the computer program product comprising~~ including code that, when executed by at least one hardware processor included in the automotive electronic control unit in communication with the non-transitory computer-readable medium, is for:

~~code for~~ receiving sensor information associated with a message received utilizing a first network protocol associated with a first network;

~~code for~~ in response to receiving the sensor information, issuing, by the at least one hardware processor and to a storage resource included in the automotive electronic control unit, a storage resource request ~~in connection with a~~ to access the storage resource included in the automotive electronic control unit, for determining whether the storage resource included in the automotive electronic control unit is available to store the sensor information;

~~code for~~ determining whether a time-related threshold tracked after the issuance of the storage resource request has been reached in association with the determination whether the storage resource is available;

~~code for,~~ when the storage resource included in the automotive electronic control unit is determined to not be available and the threshold associated with the determination whether the storage resource is available has not been reached, issuing, by the at least one hardware processor to the storage resource included in the automotive electronic control unit, another storage resource request ~~in connection with~~ to access the storage resource included in the automotive electronic control unit to store the sensor information;

~~code for,~~ when the storage resource included in the automotive electronic control unit is determined to not be available and the threshold associated with determination whether the storage resource is available has been reached, ceasing repeating issuance of another storage resource request ~~sending a notification~~; and

~~code for,~~ when the storage resource included in the automotive electronic control unit is determined to be available, storing the sensor information utilizing the storage resource;

wherein the computer program product is operable such that the sensor information is capable of being shared in less than one second utilizing [[an]]the automotive electronic control unit that remains in

hardwired communication with the first network and a second network, and that includes a plurality of interfaces including:

a first interface for interfacing with the first network~~, the first interface including a first interface-related data link layer component for using first network-related data link layer header bits and a first interface-related network layer component for using first network-related network layer header bits~~, where the first network is ~~at least~~ one of a Controller Area Network, a Flexray network, or a Local Interconnect Network; and

a second interface for interfacing with the second network, where the second network is another one of the Controller Area Network, the Flexray network, or the Local Interconnect Network~~, the second interface including a second interface-related data link layer component for using second network-related data link layer header bits~~.

Claim 15:

The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that the sensor information reaches a destination on the second network in less than one second.

Claim 16:

The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that the sensor information reaches a destination on the second network in less than a millisecond.

Claim 17:

The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that a duration between the sensor information being received and the sharing being completed is less than one second.

Claim 18:

The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that a duration between the sensor information being received and the sharing being completed is less than a millisecond.

Claim 19:

The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that the sharing of the sensor information is completed in less than a millisecond.

Claim 20:

The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is configured for sharing the sensor information in the form of automotive sensor data received via the first network for use in connection with an automotive device on the second network, in less than the one millisecond second.

Claim 21:

The apparatus as recited in claim 8, wherein the apparatus is operable such that the storage resource request and the another storage resource request are identical.

Claim 22:

The apparatus as recited in claim 8, wherein the apparatus is operable such that the storage resource request and the another storage resource request are the same.

Claim 23:

The apparatus as recited in claim 8, wherein the apparatus is operable such that the sensor information excludes all header bits of the message.

Claim 24:

The apparatus as recited in claim 8, wherein the apparatus is operable such that the sensor information excludes at least a portion of any header bits of the message.

Claim 25:

The apparatus as recited in claim 8, wherein the apparatus is operable such that the storage resource includes a bulletin board.

Claim 26:

The apparatus as recited in claim 8, wherein the apparatus is operable such that the error notification is sent, when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request, to not be available and the threshold tracked since the issuance of the storage resource request has been reached.

Claim 27:

The apparatus as recited in claim 8, wherein the apparatus is operable such that the error notification is sent, when the storage resource included in the automotive electronic control unit is determined, in response to issuing the another storage resource request, to not be available and the threshold tracked since the issuance of the storage resource request has been reached.

Claim 28:

The apparatus as recited in claim 8, wherein the apparatus is operable such that the error notification is sent, when the storage resource included in the automotive electronic control unit is determined, in response to issuing the storage resource request and the another storage resource request, to not be available and the threshold tracked since the issuance of the storage resource request has been reached.

Claim 29:

The apparatus as recited in claim 8, wherein at least one of:

the memory storage includes the storage resource;

the memory storage does not include the storage resource;

the storage resource is part of the memory storage;

the storage resource is not part of the memory storage;

the sensor information includes original data received from a sensor or derived data derived from original data received from the sensor;

the threshold is time-related;

the threshold is a timeout;

the threshold includes a duration threshold;

the threshold does not include a duration threshold;

the threshold is configurable;

the storage resource included in the automotive electronic control unit is determined to be available, when the automotive electronic control unit gets the storage resource;

the storage resource included in the automotive electronic control unit is determined to be available, when the automotive electronic control unit gets access to the storage resource;

the storage resource included in the automotive electronic control unit is determined to be not available, when the automotive electronic control unit does not get the storage resource;

the storage resource included in the automotive electronic control unit is determined to be not available, when the automotive electronic control unit does not get access to the storage resource;

the second interface-related data link layer component includes a data link layer component related to the second interface;

the data link layer component is a component that operates in a data link layer;

the data link layer component is a component that operates using the data link layer header bits;

the second interface-related network layer component includes a network layer component related to the second interface;

the network layer component is a component that operates in a network layer;

the network layer component is a component that operates using network layer header bits;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides directly below the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides below the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides directly adjacent the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides adjacent the network layer;

the network-related data link layer header bits are relate to a particular network; or

the network-related network layer header bits are relate to a particular network.

Claim 30:

The apparatus as recited in claim 8, wherein the apparatus is operable such that the information associated with the message is identified in another storage resource that stores the information after the message is received.

Claim 31:

The apparatus as recited in claim 8, wherein the apparatus is operable such that the information associated with the message is identified in another storage resource that stores the information after the message is received and before the information is stored utilizing the storage resource, the another storage resource capable of being used for information storage, regardless as to a particular network with which the information is shared.

Claim 32:

The apparatus as recited in claim 31, wherein the apparatus is operable such that the information is stored utilizing the another storage

resource in response to a corresponding request that is separate from the storage resource request.

Claim 33:

The apparatus as recited in claim 8, wherein at least one of:

the memory storage includes the storage resource;

the memory storage does not include the storage resource;

the storage resource is part of the memory storage;

the storage resource is not part of the memory storage;

the storage resource includes a bulletin board;

the storage resource does not include a bulletin board;

the storage resource includes a database;

the storage resource does not include a database;

the storage resource is not a buffer;

the information is shared utilizing a data unit, the data unit including a packet data unit;

the information is shared utilizing a data unit, the data unit including a packet;

the first network-related data link layer header bits and the first network-related network layer header bits, are removed from a data unit of the message;

the first network-related data link layer header bits and the first network-related network layer header bits, are removed from a data unit that is the message;

the first network-related data link layer header bits and the first network-related network layer header bits, are removed from a data unit that includes the message;

the first network-related data link layer header bits and the first network-related network layer header bits, are removed from a data unit that is included in the message;

the second network-related data link layer header bits and the second network-related network layer header bits, are added to a data unit of another message;

the second network-related data link layer header bits and the second network-related network layer header bits, are added to a data unit that is another message;

the second network-related data link layer header bits and the second network-related network layer header bits, are added to a data unit that includes another message;

the second network-related data link layer header bits and the second network-related network layer header bits, are added to a data unit that is included in another message;

the first interface is for interfacing a Controller Area Network and the second interface is for interfacing a Flexray network, and the storage resource is capable of being used to store other information that is received associated with another message received utilizing a Flexray network protocol associated with the Flexray network;

the first interface is for interfacing a Controller Area Network and the second interface is for interfacing a Flexray network, and the storage resource is incapable of being used to store other information that is received associated with another message received utilizing a Flexray network protocol associated with the Flexray network;

the first interface is for interfacing a Controller Area Network and the second interface is for interfacing a Flexray network, and the storage resource is capable of being used to store other information that is received

associated with another message received utilizing a Local Interconnect Network protocol associated with a Local Interconnect Network;

the first interface is for interfacing a Controller Area Network and the second interface is for interfacing a Flexray network, and the storage resource is incapable of being used to store other information that is received associated with another message received utilizing a Local Interconnect Network protocol associated with a Local Interconnect Network;

the first interface is for interfacing a Controller Area Network and the second interface is for interfacing a Flexray network, and the storage resource is capable of being used to store other information that is sent with another message utilizing a Local Interconnect Network protocol associated with a Local Interconnect Network;

the first interface is for interfacing a Controller Area Network and the second interface is for interfacing a Flexray network, and the storage resource is incapable of being used to store other information that is sent with another message utilizing another network type other than the Flexray network type;

the storage resource is used for non-exclusively storing an information subset that is sent to a particular type of network;

the storage resource is used for exclusively storing an information subset that is sent to a particular type of network;

the storage resource is used for information storage, regardless as to a particular network on which shared information is sent;

the storage resource is used for information storage, based on a particular network on which shared information is sent;

the storage resource is used for information storage for only a single particular network type on which shared information is sent;

the storage resource is not used for information storage for only a single particular network type on which shared information is sent;

the storage resource is part of a gateway;

the storage resource is not part of a gateway;

the storage resource is part of a gateway implemented by the automotive electronic control unit;

the storage resource is not part of a gateway implemented by the automotive electronic control unit;

the storage resource is used for gatewaying;

the storage resource is not used for gatewaying;

the storage resource receives the information from a gateway that receives the information;

the storage resource receives the information from a gateway that shares the information;

the storage resource receives the information from a gateway of the automotive electronic control unit;

the in response, includes a direct response;

the in response, includes an indirect response;

the in response, includes a direct response without any intermediate operation;

the in response, includes an indirect response with at least one intermediate operation;

the storage resource is part of a gateway of the automotive electronic control unit;

the storage resource is not part of a gateway of the automotive electronic control unit;

the storage resource is used for exclusively storing an information subset that is sent to a particular type of network;

the storage resource is used for exclusively storing an information subset that is sent only to a particular network;

the storage resource is capable of being used for storing any information that is sent to any type of network;

the sensor information includes original data received from a sensor or derived data derived from original data received from the sensor;

the threshold is time-related;

the threshold is a timeout;

the threshold includes a duration threshold;

the threshold does not include a duration threshold;

the threshold is a retry count;

the threshold is configurable;

the storage resource is determined to be available, when the automotive electronic control unit gets the storage resource;

the storage resource is determined to be available, when the automotive electronic control unit gets access to the storage resource;

the storage resource is determined to be not available, when the automotive electronic control unit does not get the storage resource;

the storage resource is determined to be not available, when the automotive electronic control unit does not get access to the storage resource;

the storage resource is one of a plurality of storage resources;

the storage resource is a single storage resource;

the storage resource is one of a plurality of storage resources that are configured depending on a communication system topology;

the storage resource is one of a plurality of storage resources each associated with at least one of a plurality of interfaces;

the storage resource is shared amongst a plurality of outgoing communications to a plurality of the Controller Area Network type, the Flexray network type, and the Local Interconnect Network type;

the storage resource is not shared amongst a plurality of outgoing communications to a plurality of the Controller Area Network type, the Flexray network type, and the Local Interconnect Network type;

the storage resource is shared amongst the first interface and the second interface;

the storage resource is not shared amongst the first interface and the second interface;

the shared information is shared from the storage resource;

the shared information is shared directly from the storage resource;

the shared information is shared indirectly from the storage resource;

it is determined whether the storage resource is available, by the issuance of the storage resource request thereto;

it is determined whether the storage resource is available, by the issuance of the storage resource request;

it is determined whether the storage resource is available, based on a response to the issued storage resource request;

it is determined whether the storage resource is available, based on a response to the issued storage resource request;

it is determined whether the storage resource is available, using explicit resource management;

the second interface-related data link layer component includes a data link layer component related to the second interface;

each data link layer component is a component that operates in a data link layer;

each data link layer component is a component that operates using corresponding data link layer header bits;

the second interface-related network layer component includes a network layer component related to the second interface;

the sharing includes sending;

the sharing is sending;

the sharing is accomplished by sending;

each network layer component is a component that operates in a network layer;

each network layer component is a component that operates using corresponding network layer header bits;

the data link layer component is a component that supports at least one function of a data link layer, and the network layer component is a component that supports at least one function of a network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides directly below the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides below the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides directly adjacent the network layer;

the data link layer component is a component that operates in a data link layer, and the network layer component is a components that operates in a network layer, where the data link layer resides adjacent the network layer;

the first network-related network layer header bits relate to a particular node of the first network;

the first network-related data link layer header bits do not relate to a particular node of the first network;

the second network-related network layer header bits relate to a particular node of the second network;

the second network-related data link layer header bits relate to a particular node of the second;

the first network-related network layer header bits are utilized for addressing;

the first network-related network layer header bits are not used for addressing;

the second network-related network layer header bits are utilized for addressing;

the second network-related network layer header bits are not used for addressing;

the second network-related network layer header bits are not used for certain addressing;

the first network-related network layer header bits are utilized for addressing from a particular node of the first network;

the first network-related network layer header bits are not used for addressing from a particular node of the first network;

the first network-related network layer header bits are utilized for addressing to a particular node of the second network;

the first network-related network layer header bits are not used for addressing to a particular node of the second network;

the second network-related network layer header bits are utilized for addressing to a particular node of the second network;

the second network-related network layer header bits are not used for addressing to a particular node of the second network;

the first network-related network layer header bits are utilized for addressing generally to the first network;

the first network-related network layer header bits are not used for addressing generally to the first network;

the second network-related network layer header bits are utilized for addressing to the second network;

the second network-related network layer header bits are not used for addressing to the second network;

the first network-related data link layer header bits do not relate to a particular node of the first network;

the second network-related network layer header bits relate to a particular node of the second network; or

the second network-related data link layer header bits relate to a particular node of the second.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHARLES E ANYA whose telephone number is (571)272-3757. The examiner can normally be reached on Mon-Fir. 9-6pm.

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, Dennis Chow can be reached on 571-272-7767. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

/CHARLES E ANYA/
Primary Examiner, Art Unit 2194

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	Art Unit
	CHARLES E ANYA	2194

CPC - Searched*		
Symbol	Date	Examiner
(G06F9/542 G06F9/545 G06F9/546 H04L43/10 H04L67/10 B60R16/023)	09/26/2021	ca

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
The group/subgroup search is limited by text search	12/18/2019	ca
Inventor Search	12/18/2019	ca
West (G06F9/542 G06F9/545 G06F9/546 H04L43/10 H04L67/10 B60R16/023)	12/18/2019	ca
Inventor Search	06/02/2020	ca
(G06F9/542 G06F9/545 G06F9/546 H04L43/10 H04L67/10 B60R16/023)	06/02/2020	ca
IDS considered	09/20/2020	ca

/CHARLES E ANYA/ Primary Examiner, Art Unit 2194	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	Art Unit
	CHARLES E ANYA	2194

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
(G06F9/542 G06F9/545 G06F9/546 H04L43/10 H04L67/10 B60R16/023)		09/26/2021	ca

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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	**Art Unit**
	CHARLES E ANYA	2194

CPC						
Symbol					**Type**	**Version**
G06F	/	9	/	546	F	2013-01-01
G06F	/	9	/	542	I	2013-01-01
G06F	/	9	/	545	I	2013-01-01
G06F	/	9	/	54	I	2013-01-01
H04L	/	43	/	04	I	2013-01-01
H04L	/	43	/	06	I	2013-01-01
H04L	/	43	/	08	I	2013-01-01
H04L	/	67	/	02	I	2013-01-01
H04L	/	67	/	12	I	2013-01-01
B60R	/	16	/	0231	I	2013-01-01
H04L	/	43	/	10	I	2013-01-01
H04L	/	67	/	10	I	2013-01-01
G06F	/	2209	/	547	A	2013-01-01
H04L	/	65	/	102	A	2013-01-01

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

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	33	
/CHARLES E ANYA/ Primary Examiner, Art Unit 2194	26 September 2021	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	10

U.S. Patent and Trademark Office — Part of Paper No.: 20210926

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	**Art Unit**
	CHARLES E ANYA	2194

INTERNATIONAL CLASSIFICATION				
CLAIMED				
G06F9/54	/	9	/	54
H04L12/26	/	12	/	26
H04L29/08	/	29	/	08
B60R16/023	/	16	/	023
CPCONLY	/	NLY	/	
H04L29/06	/	29	/	06

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

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

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 33	
/CHARLES E ANYA/ Primary Examiner, Art Unit 2194 (Primary Examiner)	26 September 2021 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 10

U.S. Patent and Trademark Office — Part of Paper No.: 20210926

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	**Art Unit**
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☐ 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	1	10	10	32	19	21	28								
2	2	11	11	33	20	22	29								
3	3	12	12	14	21	23	30								
4	4	13	13	15	22	24	31								
5	5	27	14	16	23	25	32								
6	6	28	15	17	24	26	33								
7	7	29	16	18	25										
8	8	30	17	19	26										
9	9	31	18	20	27										

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	33	
/CHARLES E ANYA/ Primary Examiner, Art Unit 2194	26 September 2021	O.G. Print Claim(s)	O.G. Print Figure
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U.S. Patent and Trademark Office Part of Paper No.: 20210926

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	16042159
Filing Date	2018-07-23
First Named Inventor	Axel Fuchs
Art Unit	2194
Examiner Name	Charles E ANYA
Attorney Docket Number	SVIPGP061H

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	4099255	A	1978-07-04	Stanley et al.	Entire Document
	2	6434459	B2	2002-08-13	Wong et al.	Entire Document

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	1	20030040881	A1	2003-02-27	Steger et al.	Entire Document
	2	20030043739	A1	2003-03-06	Reinold et al.	Entire Document

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	1	2002054163	WO	A1	2002-07-11	Niklasson	Entire Document	

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Receipt date: 04/26/2021

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16042159
	Filing Date	2018-07-23
	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Douglas Boling, "Programming Windows CE," published 1998.	
	2	J. Kershaw, "Dependable Systems Using 'Viper'," in Fault Tolerant Design Concepts for Highly Integrated Flight Critical Guidance and Control Systems" (1990)	
	3	Nick Grattan and Marshal Brian, "Windows CE 3.0 Application Programming," published October 20, 2000.	

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EXAMINER SIGNATURE

Examiner Signature	/CHARLES E ANYA/	Date Considered	09/26/2021

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[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.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16042159
	Filing Date	2018-07-23
	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

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	/Patrick Caldwell/	Date (YYYY-MM-DD)	2021-04-26
Name/Print	Patrick Caldwell	Registration Number	44580

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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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:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

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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.

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.

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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

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

Application Number	16042159
Filing Date	2018-07-23
First Named Inventor	Axel Fuchs
Art Unit	2194
Examiner Name	Charles E ANYA
Attorney Docket Number	SVIPGP061H

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	10002036	B2	2018-06-19	Fuchs et al.	Entire Document
	2	10031790	B1	2018-07-24	Fuchs et al.	Entire Document
	3	10248477	B2	2019-04-02	Fuchs et al.	Entire Document
	4	7802263	B2	2010-09-21	Fuchs et al.	Entire Document
	5	8209705	B2	2012-06-26	Fuchs et al.	Entire Document
	6	8566843	B2	2013-10-22	Fuchs et al.	Entire Document
	7	9575817	B2	2017-02-21	Fuchs et al.	Entire Document
	8	9705765	B2	2017-07-11	Fuchs et al.	Entire Document

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Receipt date: 12/30/2020

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16042159
	Filing Date	2018-07-23
	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

U.S.PATENT APPLICATION PUBLICATIONS Remove

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
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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		

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EXAMINER SIGNATURE

Examiner Signature	/CHARLES E ANYA/	Date Considered	09/26/2021

*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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.E.A/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16042159
	Filing Date	2018-07-23
	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

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	/Patrick Caldwell/	Date (YYYY-MM-DD)	2020-12-30
Name/Print	Patrick Caldwell	Registration Number	44580

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.E.A/

Bibliographic Data

Application No: 16/042,159

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /CHARLES E ANYA/ (Examiner's Signature) | (Initials)

Title: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
07/23/2018	719	2194	SVIPGP061H
RULE			

APPLICANTS

Stragent, LLC, Longview, TX,

INVENTORS

Axel Fuchs, San Jose, CA, UNITED STATES

Scott Sturges Andrews, Petaluma, CA, UNITED STATES

CONTINUING DATA

This application is a CON of 15919201 03/12/2018 PAT 10031790

15919201 is a CON of 15405110 01/12/2017 PAT 10002036

15405110 is a CON of 14011705 08/27/2013 PAT 9575817

14011705 is a CON of 13531319 06/22/2012 PAT 8566843

13531319 is a CON of 12182570 07/30/2008 PAT 8209705

12182570 is a CON of 10737690 12/15/2003 PAT 7802263

10737690 has PRO of 60434018 12/17/2002

FOREIGN APPLICATIONS

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08/29/2018

STATE OR COUNTRY

UNITED STATES

ADDRESS

The Caldwell Firm, LLC
PO Box 59655
Dept. SVIPGP
Dallas, TX 75229

UNITED STATES

FILING FEE RECEIVED

$1,720

WEST Search History for Application 16042159

Creation Date: 2021092617:57

Interference Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
(((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.	PGPB	34532	OR	YES		09-26-2021
(bb or bulletin adj board or storage) with availab $ 6 with sensor	PGPB	2856	OR	YES		09-26-2021
((bb or bulletin adj board or storage) with availab $ 6 with sensor) and (((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.)	PGPB	149	OR	YES		09-26-2021
((bb or bulletin adj board or storage) with availab $ 6 with sensor and (((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.) and @ ad < 20021217	PGPB	0	OR	YES		09-26-2021
(request $ 3 call invocation invok $ 3 query $ 3 message) with (sensor with resource)	PGPB	1766	OR	YES		09-26-2021
((request $ 3 call invocation invok $ 3 query $ 3 message) with (sensor with resource)) and (((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.)	PGPB	113	OR	YES		09-26-2021
((request $ 3 call invocation invok $ 3 query $ 3 message) with (sensor with resource) and (((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.) and @ ad < 20021217	PGPB	0	OR	YES		09-26-2021
(request $ 3 or messag $ 3 or query $ 3) with (storage memory) with ((timer or time $ 1out or watchdog) and availab $ 6)	PGPB	745	OR	YES		09-26-2021
	PGPB	31	OR	YES		09-26-2021

((request $ 3 or messag $ 3 or query $ 3) with (storage memory) with ((timer or time $ 1out or watchdog) and availab $ 6)) and (((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.)						
((request $ 3 or messag $ 3 or query $ 3) with (storage memory) with ((timer or time $ 1out or watchdog) and availab $ 6) and (((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.) and @ ad < 20021217	PGPB	0	OR	YES		09-26-2021

Prior Art Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
10248477.PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6	OR	YES		09-26-2021
10031790.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		09-26-2021
10002036.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		09-26-2021
9575817.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	2	OR	YES		09-26-2021

	TDBD					
8566843.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		09-26-2021
8209705.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3	OR	YES		09-26-2021
7802263.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		09-26-2021
10031790.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		09-26-2021
100020360.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		09-26-2021
10020360.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	7	OR	YES		09-26-2021
100020360.pn.	PGPB, USPT, USOC,	0	OR	YES		09-26-2021

	EPAB, JPAB, DWPI, TDBD					
10002036.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		09-26-2021
9575817.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		09-26-2021
8566843.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		09-26-2021
8209705.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3	OR	YES		09-26-2021
7802263.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		09-26-2021
"FUCHS-AXEL"!	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	60	OR	YES		09-26-2021

"FUCHS-AXEL"!	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	60	OR	YES		09-26-2021
"ANDREWS-SCOTT-STURGES"!	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	25	OR	YES		09-26-2021
(((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231)))))))).cpc.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	101794	OR	YES		09-26-2021
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(bulletin near board or "bb") and (((request or message or query) and (storage near availab$6)).ab, ti.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	84	OR	YES		09-26-2021
((bulletin near board or "bb") and ((request or message or query) and (storage near availab$6)).ab, ti.) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		09-26-2021
(bulletin near board or "bb").ab, ti.	PGPB, USPT, USOC, EPAB,	40242	OR	YES		09-26-2021

	JPAB, DWPI, TDBD					
(bb or bulletin adj board or storage) with availab$6	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	438971	OR	YES		09-26-2021
((bulletin near board or "bb").ab, ti.) and ((bb or bulletin adj board or storage) with availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	419	OR	YES		09-26-2021
((bulletin near board or "bb").ab, ti. and (bb or bulletin adj board or storage) with availab$6) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	112	OR	YES		09-26-2021
(((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231)))))))).cpc.) and ((bulletin near board or "bb").ab, ti. and (bb or bulletin adj board or storage) with availab$6 and @ad<20021217)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		09-26-2021
((bb or bulletin adj board or storage) with availab$6) and (motor or vehicle or automobile or automotive or ecu)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	125777	OR	YES		09-26-2021
((bb or bulletin adj board or storage) with availab$6 and (motor or vehicle or automobile or automotive or ecu)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	16143	OR	YES		09-26-2021
		3	OR	YES		09-26-2021

(((request or message or query) and (storage near availab$6)).ab, ti.) and ((bb or bulletin adj board or storage) with availab$6 and (motor or vehicle or automobile or automotive or ecu) and @ad<20021217)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
((bb or bulletin adj board or storage) with availab$6 and (motor or vehicle or automobile or automotive or ecu) and @ad<20021217) and (((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	63	OR	YES		09-26-2021
(shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	723	OR	YES		09-26-2021
((shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	217	OR	YES		09-26-2021
((shared or common) near memory with (timer or time$1out or watchdog) and @ad<20021217) and (request$3 or messag$3) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	41	OR	YES		09-26-2021
(request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	128	OR	YES		09-26-2021
((request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB,	31	OR	YES		09-26-2021

	JPAB, DWPI, TDBD					
(direct adj memory adj access or dma) with (timer or time$1out)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6349	OR	YES		09-26-2021
((direct adj memory adj access or dma) with (timer or time$1out)) and (shared or common) near memory with (request$3 or memory or access$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	833	OR	YES		09-26-2021
((direct adj memory adj access or dma) with (timer or time$1out) and (shared or common) near memory with (request$3 or memory or access$3)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	317	OR	YES		09-26-2021
((direct adj memory adj access or dma) with (timer or time$1out) and (shared or common) near memory with (request$3 or memory or access$3) and @ad<20021217) and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	74	OR	YES		09-26-2021
(shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	125	OR	YES		09-26-2021
((shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	27	OR	YES		09-26-2021
		29178	OR	YES		09-26-2021

availab$7 with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
(availab$7 with (timer or time$1out or watchdog)) and (shared or common) near memory	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1433	OR	YES		09-26-2021
(availab$7 with (timer or time$1out or watchdog) and (shared or common) near memory) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	371	OR	YES		09-26-2021
(availab$7 with (timer or time$1out or watchdog) and (shared or common) near memory and @ad<20021217) and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	116	OR	YES		09-26-2021
(request$3 or messag$3 or query$3) with (shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	18	OR	YES		09-26-2021
(request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	128	OR	YES		09-26-2021
((request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB,	31	OR	YES		09-26-2021

	JPAB, DWPI, TDBD					
(shared or common) near memory with availab$6	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6951	OR	YES		09-26-2021
((shared or common) near memory with availab$6) and (motor or vehicle or automobile or automotive or ecu)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	693	OR	YES		09-26-2021
((shared or common) near memory with availab$6 and (motor or vehicle or automobile or automotive or ecu)) and (((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))))).cpc.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	38	OR	YES		09-26-2021
((shared or common) near memory with availab$6 and (motor or vehicle or automobile or automotive or ecu) and (((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))))).cpc.) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1	OR	YES		09-26-2021
(((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))))).cpc.	PGPB	34532	OR	YES		09-26-2021
(bb or bulletin adj board or storage or((shared or common) near memory)) with availab$6	PGPB	213172	OR	YES		09-26-2021
(((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))))).cpc.) and ((bb or bulletin adj board or storage or((shared or common) near memory)) with availab$6)	PGPB	5844	OR	YES		09-26-2021
	PGPB	1659	OR	YES		09-26-2021

(((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc. and (bb or bulletin adj board or storage or((shared or common) near memory)) with availab$6) and (motor or vehicle or automobile or automotive or ecu)						
(((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc. and (bb or bulletin adj board or storage or((shared or common) near memory)) with availab$6 and (motor or vehicle or automobile or automotive or ecu)) and @ad<20021217	PGPB	17	OR	YES		09-26-2021
(5941947 5230051 5388189 5513324 5737529 5923846 6128315 6185466 6430607 6438632 6941510 6363427 6725348 7950017 5265250 5666485).pn.	USPT	16	OR	YES		09-26-2021
20010018685 20020032856 20020191543 20020002586 20020047868 20030154116 20030236894 20030088568 20020198943 20020159460 20020188691 20030061388 20030074474 20040003087 20060155907 20060155867 20070101206 20100333096 20110047218 20110047310 20120029898 20130111299	PGPB	24	OR	YES		09-26-2021
20020073243	PGPB	2	OR	YES		09-26-2021
(7552410 5956489 6289390 6378001 6801942 6034970 7103045 7103646 7103656 5588002).pn.	USPT	10	OR	YES		09-26-2021
(6141710 6484082 7552440).pn.	USPT	3	OR	YES		09-26-2021
((5941947 5230051 5388189 5513324 5737529 5923846 6128315 6185466 6430607 6438632 6941510 6363427 6725348 7950017 5265250 5666485).pn.) or (20010018685 20020032856 20020191543 20020002586 20020047868 20030154116 20030236894 20030088568 20020198943 20020159460 20020188691 20030061388 20030074474 20040003087 20060155907 20060155867 20070101206 20100333096 20110047218 20110047310 20120029898 20130111299) or (20020073243) or ((7552410 5956489 6289390 6378001 6801942 6034970 7103045 7103646 7103656 5588002).pn.) or ((6141710 6484082 7552440).pn.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	55	OR	YES		09-26-2021

((5941947 5230051 5388189 5513324 5737529 5923846 6128315 6185466 6430607 6438632 6941510 6363427 6725348 7950017 5265250 5666485).pn. or 20010018685 20020032856 20020191543 20020002586 20020047868 20030154116 20030236894 20030088568 20020198943 20020159460 20020188691 20030061388 20030074474 20040003087 20060155907 20060155867 20070101206 20100333096 20110047218 20110047310 20120029898 20130111299 or 20020073243 or (7552410 5956489 6289390 6378001 6801942 6034970 7103045 7103646 7103656 5588002).pn. or (6141710 6484082 7552440).pn.) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	43	OR	YES		09-26-2021
(shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	723	OR	YES		09-26-2021
((shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	217	OR	YES		09-26-2021
((shared or common) near memory with (timer or time$1out or watchdog) and @ad<20021217) and (request$3 or messag$3) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	41	OR	YES		09-26-2021
(request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	128	OR	YES		09-26-2021
((request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB,	31	OR	YES		09-26-2021

	JPAB, DWPI, TDBD					
(direct adj memory adj access or dma) with (timer or time$1out)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6349	OR	YES		09-26-2021
((direct adj memory adj access or dma) with (timer or time$1out)) and (shared or common) near memory with (request$3 or memory or access$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	833	OR	YES		09-26-2021
((direct adj memory adj access or dma) with (timer or time$1out) and (shared or common) near memory with (request$3 or memory or access$3)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	317	OR	YES		09-26-2021
((direct adj memory adj access or dma) with (timer or time$1out) and (shared or common) near memory with (request$3 or memory or access$3) and @ad<20021217) and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	74	OR	YES		09-26-2021
(shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	125	OR	YES		09-26-2021
((shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	27	OR	YES		09-26-2021
		29178	OR	YES		09-26-2021

availab$7 with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
(availab$7 with (timer or time$1out or watchdog)) and (shared or common) near memory	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1433	OR	YES		09-26-2021
(availab$7 with (timer or time$1out or watchdog) and (shared or common) near memory) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	371	OR	YES		09-26-2021
(availab$7 with (timer or time$1out or watchdog) and (shared or common) near memory and @ad<20021217) and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	116	OR	YES		09-26-2021
(request$3 or messag$3 or query$3) with (shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	18	OR	YES		09-26-2021
(request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	128	OR	YES		09-26-2021
((request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB,	31	OR	YES		09-26-2021

	JPAB, DWPI, TDBD					
(((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.	PGPB	34532	OR	YES		09-26-2021
(((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.) and (request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)	PGPB	2	OR	YES		09-26-2021
(((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.) and (motor or vehicle or automobile or automotive or ecu)	PGPB	8063	OR	YES		09-26-2021
(((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc. and (motor or vehicle or automobile or automotive or ecu)) and (request$3 or messag$3) with (storing or sav$3)	PGPB	1567	OR	YES		09-26-2021
(((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc. and (motor or vehicle or automobile or automotive or ecu) and (request$3 or messag$3) with (storing or sav$3)) and (shared or common) near memory	PGPB	147	OR	YES		09-26-2021
(((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc. and (motor or vehicle or automobile or automotive or ecu) and (request$3 or messag$3) with (storing or sav$3) and (shared or common) near memory) and @ad<20021217	PGPB	4	OR	YES		09-26-2021
(((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.) and (bb or bulletin adj board or storage or((shared or	PGPB	5844	OR	YES		09-26-2021

common) near memory)) with availab$6						
(((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.) and (bb or bulletin adj board or storage or ((shared or common) near memory)) with availab$6	PGPB	5844	OR	YES		09-26-2021
(((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc. and (bb or bulletin adj board or storage or ((shared or common) near memory)) with availab$6) and @ad<20021217	PGPB	136	OR	YES		09-26-2021
(((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc. and (bb or bulletin adj board or storage or ((shared or common) near memory)) with availab$6 and @ad<20021217) and (motor or vehicle or automobile or automotive or ecu)	PGPB	17	OR	YES		09-26-2021
(((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.) and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)	PGPB	7510	OR	YES		09-26-2021
(((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc. and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)) and (motor or vehicle or automobile or automotive or ecu)	PGPB	1581	OR	YES		09-26-2021
(((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc.) and (bb or bulletin adj board or storage) with availab$6	PGPB	5693	OR	YES		09-26-2021
(((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc. and (bb or bulletin adj board or storage) with availab$6) and (motor or vehicle or automobile or	PGPB	1647	OR	YES		09-26-2021

automotive or ecu)						
(((((((((G06F9/542))))))) (((((((G06F9/545))))))) (((((((G06F9/546))))))) (((((((H04L43/10))))))) (((((((H04L67/10))))))) (((((((B60R16/0231))))))).cpc. and (bb or bulletin adj board or storage) with availab$6 and (motor or vehicle or automobile or automotive or ecu)) and @ad<20021217	PGPB	17	OR	YES		09-26-2021
("20020073243" | "20020124007" | "5588002" | "5854454" | "5956489" | "6034970" | "6141710" | "6289390" | "6378001" | "6484082" | "6801942" | "7103045" | "7103646" | "7103656" | "7552440").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	45	OR	YES		09-26-2021
(("20020073243" | "20020124007" | "5588002" | "5854454" | "5956489" | "6034970" | "6141710" | "6289390" | "6378001" | "6484082" | "6801942" | "7103045" | "7103646" | "7103656" | "7552440").PN.) and (motor or vehicle or automobile or automotive or ecu)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	17	OR	YES		09-26-2021
(("20020073243" | "20020124007" | "5588002" | "5854454" | "5956489" | "6034970" | "6141710" | "6289390" | "6378001" | "6484082" | "6801942" | "7103045" | "7103646" | "7103656" | "7552440").PN. and (motor or vehicle or automobile or automotive or ecu)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	16	OR	YES		09-26-2021
(("20020073243" | "20020124007" | "5588002" | "5854454" | "5956489" | "6034970" | "6141710" | "6289390" | "6378001" | "6484082" | "6801942" | "7103045" | "7103646" | "7103656" | "7552440").PN.) and (bb or bulletin adj board or storage) with availab$6	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1	OR	YES		09-26-2021
(("20020073243" | "20020124007" | "5588002" | "5854454" | "5956489" | "6034970" | "6141710" | "6289390" | "6378001" | "6484082" | "6801942" | "7103045" | "7103646" | "7103656" | "7552440").PN.) and (shared or common) near memory with (request$3 or memory or access$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6	OR	YES		09-26-2021
(("20020073243" | "20020124007" | "5588002" | "5854454" | "5956489" | "6034970" | "6141710" | "6289390" | "6378001" |	PGPB, USPT, USOC,	6	OR	YES		09-26-2021

"6484082" | "6801942" | "7103045" | "7103646" | "7103656" | "7552440").PN. and (shared or common) near memory with (request$3 or memory or access$3)) and @ad<20021217	EPAB, JPAB, DWPI, TDBD					
(acu automotive adj control adj unit) with sensor	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	413	OR	YES		09-26-2021
((acu automotive adj control adj unit) with sensor) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	36	OR	YES		09-26-2021
(acu automotive adj control adj unit) with (request$3 call invocation invok$3 query$3 message) with resource	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	39	OR	YES		09-26-2021
((acu automotive adj control adj unit) with (request$3 call invocation invok$3 query$3 message) with resource) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	12	OR	YES		09-26-2021
("20030040881" | "20030043739" | "4099255" | "6434459").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		09-26-2021
("10002036" | "10031790" | "10248477" | "7802263" | "8209705" | "8566843" | "9575817" | "9705765").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	39	OR	YES		09-26-2021

	TDBD					
((("10002036" | "10031790" | "10248477" | "7802263" | "8209705" | "8566843" | "9575817" | "9705765").PN.) (("20030040881" | "20030043739" | "4099255" | "6434459").PN.)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	32	OR	YES		09-26-2021
(("10002036" | "10031790" | "10248477" | "7802263" | "8209705" | "8566843" | "9575817" | "9705765").PN. ("20030040881" | "20030043739" | "4099255" | "6434459").PN.) and @ad<20021217) and (request$3 call invocation invok$3 query$3 message) with resource	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		09-26-2021
(request$3 call invocation invok$3 query$3 message) with (sensor and resource)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	17121	OR	YES		09-26-2021
(request$3 call invocation invok$3 query$3 message) with (sensor with resource)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3179	OR	YES		09-26-2021
((request$3 call invocation invok$3 query$3 message) with (sensor with resource)) and (acu automotive adj control adj unit)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3	OR	YES		09-26-2021
(request$3 call invocation invok$3 query$3 message) with (bb or bulletin adj board or storage) with availab$6	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	39869	OR	YES		09-26-2021
((request$3 call invocation invok$3 query$3 message) with (bb or bulletin adj board or storage) with availab$6) and ((request$3 call	PGPB, USPT, USOC,	1050	OR	YES		09-26-2021

invocation invok$3 query$3 message) with (sensor and resource))	EPAB, JPAB, DWPI, TDBD					
((request$3 call invocation invok$3 query$3 message) with (bb or bulletin adj board or storage) with availab$6 and (request$3 call invocation invok$3 query$3 message) with (sensor and resource)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	15	OR	YES		09-26-2021
(bb or bulletin adj board or storage) with availab$6 with sensor	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	5335	OR	YES		09-26-2021
((bb or bulletin adj board or storage) with availab$6 with sensor) and (motor or vehicle or automobile or automotive or ecu)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3608	OR	YES		09-26-2021
((bb or bulletin adj board or storage) with availab$6 with sensor and (motor or vehicle or automobile or automotive or ecu)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	240	OR	YES		09-26-2021

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	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16042159
	Filing Date	2018-07-23
	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

	1	IPR2017-00457 (Final Written Decision, published 6/13/2018)	
	2	IPR2017-00458 (Final Written Decision, published 6/13/2018)	
	3	IPR2017-00676 (Final Written Decision, published 6/14/2018)	
	4	IPR2017-00677 (Final Written Decision, published 6/13/2018)	
	5	IPR2017-01502 (Final Written Decision, published 12/6/2018)	
	6	IPR2017-01503 (Final Written Decision, published 12/6/2018)	
	7	IPR2017-01504 (Final Written Decision, published 12/6/2018)	
	8	IPR2017-01519 (Final Written Decision, published 12/6/2018)	
	9	IPR2017-01520 (Final Written Decision, published 12/6/2018)	
	10	IPR2017-01521 (Final Written Decision, published 12/6/2018)	
	11	IPR2017-01522 (Final Written Decision, published 12/6/2018)	

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	Application Number	16042159
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	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

	12	IPR2021-00417 (Institution decision, published 7/19/2021)	
	13	IPR2021-00418 (Institution DENIED, published 7/19/2021)	
	14	IPR2021-00419 (Institution DENIED, published 7/19/2021)	
	15	IPR2021-00425 (Institution DENIED, published 7/19/2021)	
	16	IPR2021-00426 (Institution DENIED, published 7/19/2021)	
	17	IPR2021-00427 (Institution DENIED, published 7/19/2021)	
	18	IPR2021-00726 (Institution DENIED, published 10/1/2021)	
	19	IPR2021-00727 (Institution DENIED, published 10/1/2021)	
	20	IPR2021-00728 (Institution DENIED, published 10/1/2021)	
	21	USPAN 17/387,988 filed 07/28/2021	

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	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

EXAMINER SIGNATURE			
Examiner Signature		Date Considered	

*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.

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	Application Number	16042159
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	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

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	/Patrick Caldwell/	Date (YYYY-MM-DD)	2021-10-01
Name/Print	Patrick Caldwell	Registration Number	44580

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

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.

Electronic Acknowledgement Receipt

EFS ID:	43932505
Application Number:	16042159
International Application Number:	
Confirmation Number:	9106
Title of Invention:	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK
First Named Inventor/Applicant Name:	Axel Fuchs
Customer Number:	92045
Filer:	Patrick Edgar Caldwell
Filer Authorized By:	
Attorney Docket Number:	SVIPGP061H
Receipt Date:	01-OCT-2021
Filing Date:	23-JUL-2018
Time Stamp:	21:33:02
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	SVIPGP061H_IDS_XMTL_vF_01-Oct-2021.pdf	56665 f893a0bc3954fa127cfd2cb481c19aa581608728	no	2

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2	Information Disclosure Statement (IDS) Form (SB08)	SVIPGP061H_IDS_20211001_vF.pdf	1053320 29ac1e14fd2d95824134dfa813dbee67d224f1a1	no	6
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3	Non Patent Literature	17387988-2.pdf	6167668 e6c37320e51fe8dac475c6e610b5f88532a39ba3	no	84
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		Total Files Size (in bytes):	7277653		

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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 a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

New International Application Filed with the USPTO as a Receiving Office

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	Confirmation No.: 9106
Axel Fuchs	Examiner: Charles E ANYA
Application No.: 16/042,159	Art Unit: 2194
File Date: 2018-07-23	Docket No.: SVIPGP061H
Title: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK	Date: October 1, 2021

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.56 AND 1.97(b)

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

Examiner:

The reference(s) listed in the attached PTO Form 1449, cop(ies) of which is attached (when necessary), may be material to examination of the above-identified patent application. Applicants submit the reference(s) in compliance with their duty of disclosure pursuant to 37 CFR §§ 1.56 and 1.97. The Examiner is requested to make the reference(s) of official record in this application.

Per MPEP 609.02, applicant may not necessarily have re-submitted all of the disclosures, references, etc. cited in any parent application(s)/patent(s). It is assumed that, per such MPEP section, the Examiner has considered the same in connection with the instant application. If

applicant's assumption is in error or the Examiner requires re-submission of any such references, etc., applicant requests that the Examiner contact the undersigned so that applicant can address the same. This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that the reference(s) indeed constitutes prior art.

Additionally, as an update to formerly pending inter partes reviews, related patents (e.g. US8209705, US8566843, and US9705765) are (or were) the subject of pending inter partes reviews IPR2021-00726 (denied institution), IPR2021-00727 (denied institution), IPR2021-00728 (denied institution)) and the references cited therein are (or were) submitted.

This Information Disclosure Statement is believed to be filed within three months of the filing date of a national application other than a continued prosecution application, within three months of the date of entry of the national stage in an international application, before the mailing of a first Office action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination. Accordingly, it is believed that no fees are due in connection with the filing of this Information Disclosure Statement.

Respectfully submitted,



Dated: 01 Oct 2021

The Caldwell Firm, LLC
PO Box 59655
Dallas, Texas 75229-0655
Telephone: (214) 734-2313
pcaldwell@thecaldwellfirm.com

Patrick E. Caldwell, Esq.
Reg. No. 44,580

PTO/SB/08a (02-18)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	16042159
Filing Date	2018-07-23
First Named Inventor	Axel Fuchs
Art Unit	2194
Examiner Name	Charles E ANYA
Attorney Docket Number	SVIPGP061H

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	5202887	A	1993-04-13	Ueno et al.	Entire Document
	2	5469150	A	1995-11-21	Sitte	Entire Document
	3	5794164	A	1998-08-11	Beckert et al.	Entire Document
	4	6292862	B1	2001-09-18	Barrenscheen et al.	Entire Document
	5	6625169	B1	2003-09-23	Tofano	Entire Document
	6	6657252	B2	2003-12-02	Fried et al.	Entire Document
	7	6871250	B2	2005-03-22	Froeschl et al.	Entire Document
	8	6934612	B2	2005-08-23	Remboski et al.	Entire Document

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

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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	20030223436	A1	2003-12-04	Lohrmann et al.	Entire Document

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	1	1355456	EP	A1	2003-10-22	Forest et al.	Entire Document	
	2	1355458	EP	B1	2005-09-21	Forest et al.	Entire Document	

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Autosar "Specification of Operating System Interface", release R19-11 (2019)	
	2	Autosar Systems "Specification of Operating System Release 4.2.2" 2003	
	3	Case No. 20-510; 20-511; 50-512	

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	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

	4	H.C. von der Wense et al. "Advanced Microsystems for Automotive Applications" Springer (2001), p. 280-292	
	5	Homburg et al. "Automatic Code Generation for Multirate Simulink Models with Support for OSEK Real-Time Operating System," 2001	
	6	International Organization for Standardization 11898, Amendment 1, Apr (1995)	
	7	International Organization for Standardization 11898, First Edition, Nov (1993)	
	8	International Organization for Standardization 11898-1, First Edition, Dec (2003)	
	9	J. Kershaw "Dependable systems using "VIPER"" IET, Conference Nov. 8-10, 1989	
	10	Volvo Technology Report, "Volcano - a revolution in on-board communications" Feb 11, 1999	
	11	IPR2017-00457	
	12	IPR2017-00458	
	13	IPR2017-00676	
	14	IPR2017-00677	

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	15	IPR2017-01502	
	16	IPR2017-01503	
	17	IPR2017-01504	
	18	IPR2017-01519	
	19	IPR2017-01520	
	20	IPR2017-01521	
	21	IPR2017-01522	
	22	IPR2021-00417	
	23	IPR2021-00418	
	24	IPR2021-00419	
	25	IPR2021-00425	

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	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

	26	IPR2021-00426	
	27	IPR2021-00427	
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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Patrick Caldwell/	Date (YYYY-MM-DD)	2021-09-28
Name/Print	Patrick Caldwell	Registration Number	44580

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Electronic Acknowledgement Receipt

EFS ID:	43893555
Application Number:	16042159
International Application Number:	
Confirmation Number:	9106
Title of Invention:	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK
First Named Inventor/Applicant Name:	Axel Fuchs
Customer Number:	92045
Filer:	Patrick Edgar Caldwell
Filer Authorized By:	
Attorney Docket Number:	SVIPGP061H
Receipt Date:	28-SEP-2021
Filing Date:	23-JUL-2018
Time Stamp:	20:29:11
Application Type:	Utility under 35 USC 111(a)

Payment information:

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	SVIPGP061H_IDS_XMTL_vF_28-Sep-2021.pdf	59514 1df890e77f9c42b13a574afffd04a094c4280af2	no	3

Warnings:

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	SVIPGP061H_IDS_20210928_vF.pdf	1054048 7688f8692eb1473700b3cf84a1574c414cb32da4	no	7
Warnings:					
Information:					
3	Non Patent Literature	Autosar_4-2-2.pdf	3463754 60dd75a5acc59ce5832bb87fdf5812b420807f73	no	247
Warnings:					
Information:					
4	Non Patent Literature	Autosar_Specification_2019.pdf	243730 bc1e4e345ed46dedf69d4354cae7701a7b420b51	no	21
Warnings:					
Information:					
5	Non Patent Literature	Homburg.pdf	8793150 822f21d93a2031448562ee920b19f2302397ea88	no	10
Warnings:					
Information:					
6	Non Patent Literature	ISO_11898_1993.pdf	147146 e249002b35603672532a1dea6806a5afd7262e30	no	3
Warnings:					
Information:					
7	Non Patent Literature	ISO_11898-1_amend1.pdf	140776 f6e4ed49dc6ebb74dc488b959840102ede04a76a	no	2
Warnings:					
Information:					
8	Non Patent Literature	ISO_11898-1_firstEd.pdf	165901 40e41c553a1a1b8628208d7af5e42d88e14301e2	no	4
Warnings:					
Information:					

9	Non Patent Literature	Kershaw_Viper.pdf	57592 e798252d57ca66f1342b72e7e91c5924f8c4fd19	no	1
Warnings:					
Information:					
10	Non Patent Literature	Stragent_IC.pdf	360866 495a02610f62ffd4bbed5e97d9ce8032bc8c483c	no	55
Warnings:					
Information:					
11	Non Patent Literature	Volvo_Volcano.pdf	332512 f1221f6dc23eaf9663826db54aeb67071b36f978	no	14
Warnings:					
Information:					
12	Non Patent Literature	Wense_AdvancedMicrosystems.pdf	1247060 bc48616a8d9a8c07125f10fde40063d2b39c75d5	no	24
Warnings:					
Information:					
		Total Files Size (in bytes):	16066049		

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

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	Confirmation No.: 9106
Axel Fuchs	Examiner: Charles E ANYA
Application No.: 16/042,159	Art Unit: 2194
File Date: 2018-07-23	Docket No.: SVIPGP061H
Title: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK	Date: September 28, 2021

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.56 AND 1.97(b)

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

Examiner:

The reference(s) listed in the attached PTO Form 1449, cop(ies) of which is attached (when necessary), may be material to examination of the above-identified patent application. Applicants submit the reference(s) in compliance with their duty of disclosure pursuant to 37 CFR §§ 1.56 and 1.97. The Examiner is requested to make the reference(s) of official record in this application.

Per MPEP 609.02, applicant may not necessarily have re-submitted all of the disclosures, references, etc. cited in any parent application(s)/patent(s). It is assumed that, per such MPEP section, the Examiner has considered the same in connection with the instant application. If

applicant's assumption is in error or the Examiner requires re-submission of any such references, etc., applicant requests that the Examiner contact the undersigned so that applicant can address the same. This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that the reference(s) indeed constitutes prior art.

Related patents (e.g. US7802263, US8209705, US8566843, US9705765, US10248477, US10031790, US10002036) are (or were) the subject of litigation (EDTX 6:11-cv-00111 (closed), EDTX 6:16-cv-00446 (closed), EDTX 6:16-cv-00447 (closed), EDTX 6:16-cv-00448 (closed); DEL 1:20-cv-00510 (pending), DEL 1:20-cv-00511 (pending), DEL 1:20-cv-00512 (pending)). Further, related patents (e.g. US8209705, US8566843, and US9705765) are (or were) the subject of pending inter partes reviews (IPR2017-00457 (closed), IPR2017-00458 (closed), IPR2017-00676 (closed), IPR2017-00677 (closed), IPR2017-01502 (closed), IPR2017-01503 (closed), IPR2017-01504 (closed), IPR2017-01519 (closed), IPR2017-01520 (closed), IPR2017-01521 (closed), IPR2017-01522 (closed), IPR2021-00417 (pending), IPR2021-00418 (denied institution), IPR2021-00419 (denied institution), IPR2021-00425 (denied institution), IPR2021-00426 (denied institution), IPR2021-00427 (denied institution), IPR2021-00726 (pending), IPR2021-00727 (pending), IPR2021-00728 (pending)) and the references cited therein are (or were) submitted. Additionally, Claims 1-11, and 13-23 were statutorily disclaimed for related patent US9705765.

This Information Disclosure Statement is believed to be filed within three months of the filing date of a national application other than a continued prosecution application, within three months of the date of entry of the national stage in an international application, before the mailing of a first Office action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination. Accordingly, it is believed that no fees are due in connection with the filing of this Information Disclosure Statement.

Respectfully submitted,



Dated: 28 Sep 2021

The Caldwell Firm, LLC
PO Box 59655
Dallas, Texas 75229-0655
Telephone: (214) 734-2313
pcaldwell@thecaldwellfirm.com

Patrick E. Caldwell, Esq.
Reg. No. 44,580

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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

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

Application Number	16042159
Filing Date	2018-07-23
First Named Inventor	Axel Fuchs
Art Unit	2194
Examiner Name	Charles E ANYA
Attorney Docket Number	SVIPGP061H

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	4099255	A	1978-07-04	Stanley et al.	Entire Document
	2	6434459	B2	2002-08-13	Wong et al.	Entire Document

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

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	20030040881	A1	2003-02-27	Steger et al.	Entire Document
	2	20030043739	A1	2003-03-06	Reinold et al.	Entire Document

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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	2002054163	WO	A1	2002-07-11	Niklasson	Entire Document	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16042159
	Filing Date	2018-07-23
	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Douglas Boling, "Programming Windows CE," published 1998.	
	2	J. Kershaw, "Dependable Systems Using 'Viper'," in Fault Tolerant Design Concepts for Highly Integrated Flight Critical Guidance and Control Systems" (1990)	
	3	Nick Grattan and Marshal Brian, "Windows CE 3.0 Application Programming," published October 20, 2000.	

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

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*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	16042159
	Filing Date	2018-07-23
	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

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	/Patrick Caldwell/	Date (YYYY-MM-DD)	2021-04-26
Name/Print	Patrick Caldwell	Registration Number	44580

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:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

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.

Electronic Acknowledgement Receipt	
EFS ID:	42558751
Application Number:	16042159
International Application Number:	
Confirmation Number:	9106
Title of Invention:	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK
First Named Inventor/Applicant Name:	Axel Fuchs
Customer Number:	92045
Filer:	Patrick Edgar Caldwell
Filer Authorized By:	
Attorney Docket Number:	SVIPGP061H
Receipt Date:	26-APR-2021
Filing Date:	23-JUL-2018
Time Stamp:	20:36:26
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	SVIPGP061H_TransmittalLetter_vF_26-Apr-2021.pdf	48065 d7ad15921147ac93b3e488137226fb9c58fb9130	no	1
Warnings:					

Information:					
2	Transmittal Letter	SVIPGP061H_IDS_coversheet_vF_26-Apr-2021.pdf	59310 ca40ea93bb8df441059df249f45a6932ade7abde	no	3
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	SVIPGP061H_IDS_20210426_vF.pdf	1053206 6d4ce26db5f22d07a19a254ac3bd54269907e38c	no	4
Warnings:					
Information:					
		Total Files Size (in bytes):	1160581		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	Confirmation No.: 9106
Axel Fuchs	Examiner: Charles E ANYA
Application No.: 16/042,159	Art Unit: 2194
File Date: 2018-07-23	Docket No.: SVIPGP061H
Title: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK	Date: Apr 26, 2021

TRANSMITTAL LETTER

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

Examiner:

In response to the Request to Suspend Prosecution, applicant hereby requests that prosecution be re-opened. In the event a telephone conversation would expedite the prosecution of this application, the Examiner may reach the undersigned as indicated below.

Respectfully submitted,



Dated: 26 Apr 2021

The Caldwell Firm, LLC
PO Box 59655
Dallas, Texas 75229-0655
Telephone: (214) 734-2313
pcaldwell@thecaldwellfirm.com

Patrick E. Caldwell, Esq.
Reg. No. 44,580

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	Confirmation No.: 9106
Axel Fuchs	Examiner: Charles E ANYA
Application No.: 16/042,159	Art Unit: 2194
File Date: 2018-07-23	Docket No.: SVIPGP061H
Title: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK	Date: Apr 26, 2021

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.56 AND 1.97(b)

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

Examiner:

The reference(s) listed in the attached PTO Form 1449, cop(ies) of which is attached (when necessary), may be material to examination of the above-identified patent application. Applicants submit the reference(s) in compliance with their duty of disclosure pursuant to 37 CFR §§ 1.56 and 1.97. The Examiner is requested to make the reference(s) of official record in this application.

Per MPEP 609.02, applicant may not necessarily have re-submitted all of the disclosures, references, etc. cited in any parent application(s)/patent(s). It is assumed that, per such MPEP section, the Examiner has considered the same in connection with the instant application. If

applicant's assumption is in error or the Examiner requires re-submission of any such references, etc., applicant requests that the Examiner contact the undersigned so that applicant can address the same. This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that the reference(s) indeed constitutes prior art.

Related patents (e.g. US7802263, US8209705, US8566843, US9705765, US10248477, US10031790, US10002036) are (or were) the subject of litigation (EDTX 6:11-cv-00111 (closed), EDTX 6:16-cv-00446 (closed), EDTX 6:16-cv-00447 (closed), EDTX 6:16-cv-00448 (closed); DEL 1:20-cv-00510 (pending), DEL 1:20-cv-00511 (pending), DEL 1:20-cv-00512 (pending)). Further, related patents (e.g. US8209705, US8566843, and US9705765) are (or were) the subject of pending inter partes reviews (IPR2017-00457 (closed), IPR2017-00458 (closed), IPR2017-00676 (closed), IPR2017-00677 (closed), IPR2017-01502 (closed), IPR2017-01503 (closed), IPR2017-01504 (closed), IPR2017-01519 (closed), IPR2017-01520 (closed), IPR2017-01521 (closed), IPR2017-01522 (closed), IPR2021-00417 (pending), IPR2021-00418 (pending), IPR2021-00419 (pending), IPR2021-00425 (pending), IPR2021-00426 (pending), IPR2021-00427 (pending)) and the references cited therein are (or were) submitted. Additionally, Claims 1-11, and 13-23 were statutorily disclaimed for related patent US9705765.

This Information Disclosure Statement is believed to be filed within three months of the filing date of a national application other than a continued prosecution application, within three months of the date of entry of the national stage in an international application, before the mailing of a first Office action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination. Accordingly, it is believed that no fees are due in connection with the filing of this Information Disclosure Statement.

Respectfully submitted,



Dated: 26 Apr 2021

The Caldwell Firm, LLC
PO Box 59655
Dallas, Texas 75229-0655
Telephone: (214) 734-2313
pcaldwell@thecaldwellfirm.com

Patrick E. Caldwell, Esq.
Reg. No. 44,580

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/042,159	07/23/2018	Axel Fuchs	SVIPGP061H	9106

92045 7590 01/11/2021

The Caldwell Firm, LLC
PO Box 59655
Dept. SVIPGP
Dallas, TX 75229

EXAMINER
ANYA, CHARLES E

ART UNIT	PAPER NUMBER
2194	

DATE MAILED: 01/11/2021

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

The request for deferral/suspension of action under 37 CFR 1.103 has been approved.

UNITED STATES DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR/ PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
16/042,159	07/23/2018	Fuchs et al.	SVIPGP061H

	EXAMINER	
The Caldwell Firm, LLC **PO Box 59655 Dept. SVIPGP** **Dallas, TX 75229**	nicole C lawrence	
	ART UNIT	**PAPER**
	OMBL	20210105

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

Commissioner for Patents

The request for deferral/suspension of action under 37 CFR 1.103 has been approved.

/NICOLE LAWRENCE/	571-272-1025

PTO-90C (Rev.04-03)

PTO/SB/30EFS (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	16/042,159	Filing Date	2018-07-23	Docket Number (if applicable)	SVIPGP061H	Art Unit	2194
First Named Inventor	Axel Fuchs			Examiner Name	Charles E ANYA		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☐ Amendment/Reply
- ☒ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

MISCELLANEOUS

☒ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months 3
(Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 504964

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

Applicant Signature

PTO/SB/30EFS (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Patrick Caldwell/	Date (YYYY-MM-DD)	2020-12-30
Name	Patrick Caldwell	Registration Number	44580

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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

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:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

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.

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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

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

Application Number	16042159
Filing Date	2018-07-23
First Named Inventor	Axel Fuchs
Art Unit	2194
Examiner Name	Charles E ANYA
Attorney Docket Number	SVIPGP061H

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	10002036	B2	2018-06-19	Fuchs et al.	Entire Document
	2	10031790	B1	2018-07-24	Fuchs et al.	Entire Document
	3	10248477	B2	2019-04-02	Fuchs et al.	Entire Document
	4	7802263	B2	2010-09-21	Fuchs et al.	Entire Document
	5	8209705	B2	2012-06-26	Fuchs et al.	Entire Document
	6	8566843	B2	2013-10-22	Fuchs et al.	Entire Document
	7	9575817	B2	2017-02-21	Fuchs et al.	Entire Document
	8	9705765	B2	2017-07-11	Fuchs et al.	Entire Document

If you wish to add additional U.S. Patent citation information please click the Add button. Add

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16042159
	Filing Date	2018-07-23
	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

U.S.PATENT APPLICATION PUBLICATIONS Remove

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					

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*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	16042159
	Filing Date	2018-07-23
	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

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	/Patrick Caldwell/	Date (YYYY-MM-DD)	2020-12-30
Name/Print	Patrick Caldwell	Registration Number	44580

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

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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.

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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.

Electronic Patent Application Fee Transmittal	
Application Number:	16042159
Filing Date:	23-Jul-2018
Title of Invention:	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK
First Named Inventor/Applicant Name:	Axel Fuchs
Filer:	Patrick Edgar Caldwell
Attorney Docket Number:	SVIPGP061H

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
PROCESSING FEE, EXCEPT PROV. APPLS.	1830	1	140	140
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
RCE- 2ND AND SUBSEQUENT REQUEST	1820	1	2000	2000
		Total in USD ($)		**2140**

Electronic Acknowledgement Receipt	
EFS ID:	41526428
Application Number:	16042159
International Application Number:	
Confirmation Number:	9106
Title of Invention:	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK
First Named Inventor/Applicant Name:	Axel Fuchs
Customer Number:	92045
Filer:	Patrick Edgar Caldwell
Filer Authorized By:	
Attorney Docket Number:	SVIPGP061H
Receipt Date:	30-DEC-2020
Filing Date:	23-JUL-2018
Time Stamp:	17:36:27
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$2140
RAM confirmation Number	E2020BTH36455000
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	Request for Continued Examination (RCE)	SVIPGP061H_RCE_20201230_vF.pdf	1364046 877141e7ce88038eeb931f684efc2d7fa6dd98a7	no	3
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	SVIPGP061H_IDS_20201230_vF.pdf	1053089 d778fe635e022fd3d0cc26748e14ecb0f74bec1a	no	4
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	32652 38a62b14a604481800baff71bb140b6e062f3fa1	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	2449787		

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

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE
COMMISSIONER FOR PATENTS
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The Caldwell Firm, LLC
PO Box 59655
Dept. SVIPGP
Dallas, TX 75229

Courtesy Reminder for
Application Serial No: 16/042,159

Attorney Docket No: SVIPGP061H
Customer Number: 92045
Date of Electronic Notification: 10/06/2020

This is a courtesy reminder that new correspondence is available for this application. If you have not done so already, please review the correspondence. The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

An email notification regarding the correspondence was sent to the following email address(es) associated with your customer number:
pcaldwell@thecaldwellfirm.com
eofficeaction@appcoll.com

To view your correspondence online or update your email addresses, please visit us anytime at **https://ppair-my.uspto.gov/pair/PrivatePair.**
If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov or call 1-866-217-9197.

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

CORRECTED
NOTICE OF ALLOWANCE AND FEE(S) DUE

92045 7590 10/06/2020

The Caldwell Firm, LLC
PO Box 59655
Dept. SVIPGP
Dallas, TX 75229

EXAMINER
ANYA, CHARLES E

ART UNIT	PAPER NUMBER
2194	

DATE MAILED: 10/06/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/042,159	07/23/2018	Axel Fuchs	SVIPGP061H	9106

TITLE OF INVENTION: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
REGULAR	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	01/06/2021

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 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity 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 and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

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

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

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

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 including the Patent, advance orders and notification of maintenance fees 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.

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

92045 7590 10/06/2020
The Caldwell Firm, LLC
PO Box 59655
Dept. SVIPGP
Dallas, TX 75229

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 EFS-Web or by facsimile to (571) 273-2885, on the date indicated below.

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/042,159	07/23/2018	Axel Fuchs	SVIPGP061H	9106

TITLE OF INVENTION: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
REGULAR	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	01/06/2021

EXAMINER	ART UNIT	CLASS-SUBCLASS
ANYA, CHARLES E	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/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 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) ❑Advance Order - # of Copies _____

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

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

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

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

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

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

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

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

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

PTOL-85 Part B (08-18) Approved for use through 01/31/2020 OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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United States Patent and Trademark Office
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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/042,159	07/23/2018	Axel Fuchs	SVIPGP061H	9106

92045 7590 10/06/2020

The Caldwell Firm, LLC
PO Box 59655
Dept. SVIPGP
Dallas, TX 75229

EXAMINER	
ANYA, CHARLES E	
ART UNIT	**PAPER NUMBER**
2194	

DATE MAILED: 10/06/2020

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. 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:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
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 inspection 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.

UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

92045 7590 10/02/2020

The Caldwell Firm, LLC
PO Box 59655
Dept. SVIPGP
Dallas, TX 75229

EXAMINER
ANYA, CHARLES E

ART UNIT	PAPER NUMBER
2194	

DATE MAILED: 10/02/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/042,159	07/23/2018	Axel Fuchs	SVIPGP061H	9106

TITLE OF INVENTION: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	01/04/2021

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 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity 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 and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

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

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

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

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 including the Patent, advance orders and notification of maintenance fees 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.

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

92045 7590 10/02/2020

The Caldwell Firm, LLC
PO Box 59655
Dept. SVIPGP
Dallas, TX 75229

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 EFS-Web 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.
16/042,159	07/23/2018	Axel Fuchs	SVIPGP061H	9106

TITLE OF INVENTION: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	01/04/2021

EXAMINER	ART UNIT	CLASS-SUBCLASS
ANYA, CHARLES E	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/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 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) ❑Advance Order - # of Copies _____

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

❑ Electronic Payment via EFS-Web ❑ 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.
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Dallas, TX 75229

EXAMINER	
ANYA, CHARLES E	

ART UNIT	PAPER NUMBER
2194	

DATE MAILED: 10/02/2020

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

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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.

Notice of Allowability	**Application No.** 16/042,159	**Applicant(s)** Fuchs et al.	
	Examiner CHARLES E ANYA	**Art Unit** 2194	**AIA (FITF) Status** No

-- 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 09/10/20.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

3. ☑ The allowed claim(s) is/are 1-20 . 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 09/10/20.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/CHARLES E ANYA/
Primary Examiner, Art Unit 2194

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	Art Unit
	CHARLES E ANYA	2194

CPC						
Symbol					Type	Version
G06F	/	9	/	546	F	2013-01-01
G06F	/	9	/	542	I	2013-01-01
G06F	/	9	/	545	I	2013-01-01
G06F	/	9	/	54	I	2013-01-01
H04L	/	43	/	04	I	2013-01-01
H04L	/	43	/	06	I	2013-01-01
H04L	/	43	/	08	I	2013-01-01
H04L	/	67	/	02	I	2013-01-01
H04L	/	67	/	12	I	2013-01-01
B60R	/	16	/	0231	I	2013-01-01
H04L	/	43	/	10	I	2013-01-01
H04L	/	67	/	10	I	2013-01-01
G06F	/	2209	/	547	A	2013-01-01
H04L	/	65	/	102	A	2013-01-01

CPC Combination Sets								
Symbol					Type	Set	Ranking	Version
	/		/					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/CHARLES E ANYA/ Primary Examiner, Art Unit 2194	20 September 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	10

U.S. Patent and Trademark Office — Part of Paper No.: 20200920

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	Art Unit
	CHARLES E ANYA	2194

INTERNATIONAL CLASSIFICATION				
CLAIMED				
G06F9/54	/	9	/	54
H04L12/26	/	12	/	26
H04L29/08	/	29	/	08
B60R16/023	/	16	/	023
CPCONLY	/	NLY	/	
H04L29/06	/	29	/	06

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

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

NONE (Assistant Examiner)	(Date)	Total Claims Allowed: 20	
/CHARLES E ANYA/ Primary Examiner, Art Unit 2194 (Primary Examiner)	20 September 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 10

U.S. Patent and Trademark Office — Part of Paper No.: 20200920

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	**Art Unit**
	CHARLES E ANYA	2194

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

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		10		19										
	2		11		20										
	3		12												
	4		13												
	5		14												
	6		15												
	7		16												
	8		17												
	9		18												

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 20	
/CHARLES E ANYA/ Primary Examiner, Art Unit 2194 (Primary Examiner)	20 September 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 10

U.S. Patent and Trademark Office — Part of Paper No.: 20200920

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	Art Unit
	CHARLES E ANYA	2194

CPC - Searched*		
Symbol	Date	Examiner
(G06F9/542 G06F9/545 G06F9/546 H04L43/10 H04L67/10 B60R16/023)	06/02/2020	ca

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
The group/subgroup search is limited by text search	12/18/2019	ca
Inventor Search	12/18/2019	ca
West (G06F9/542 G06F9/545 G06F9/546 H04L43/10 H04L67/10 B60R16/023)	12/18/2019	ca
Inventor Search	06/02/2020	ca
(G06F9/542 G06F9/545 G06F9/546 H04L43/10 H04L67/10 B60R16/023)	06/02/2020	ca
IDS considered	09/20/2020	ca

/CHARLES E ANYA/ Primary Examiner, Art Unit 2194	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	Art Unit
	CHARLES E ANYA	2194

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
(G06F9/542 G06F9/545 G06F9/546 H04L43/10 H04L67/10 B60R16/023)		06/02/2020	ca

/CHARLES E ANYA/ Primary Examiner, Art Unit 2194	

WEST Search History for Application 16042159

Creation Date: 2020092001:21

Interference Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
(((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231))))))).cpc.	PGPB	30655	OR	YES		09-20-2020
(((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231))))))).cpc.) and (request $ 3 or messag $ 3 or query $ 3) with (shared or common) near memory with (timer or time $ 1out or watchdog)	PGPB	1	OR	YES		09-20-2020
(((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231))))))).cpc.) and (motor or vehicle or automobile or automotive or ecu)	PGPB	6739	OR	YES		09-20-2020
(((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231))))))).cpc. and (motor or vehicle or automobile or automotive or ecu)) and (request $ 3 or messag $ 3) with (storing or sav $ 3)	PGPB	1318	OR	YES		09-20-2020
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(((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231))))))).cpc. and (motor or vehicle or automobile or automotive or ecu) and (request $ 3 or messag $ 3) with (storing or sav $ 3) and (shared or common) near memory) and @ ad < 20021217	PGPB	4	OR	YES		09-20-2020
(((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231))))))).cpc.)	PGPB	5133	OR	YES		09-20-2020

and (bb or bulletin adj board or storage or ((shared or common) near memory)) with availab $ 6						
(((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231)))))).cpc.) and (bb or bulletin adj board or storage or ((shared or common) near memory)) with availab $ 6	PGPB	5133	OR	YES		09-20-2020
(((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231)))))).cpc. and (bb or bulletin adj board or storage or ((shared or common) near memory)) with availab $ 6) and @ ad < 20021217	PGPB	136	OR	YES		09-20-2020
(((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231)))))).cpc. and (bb or bulletin adj board or storage or ((shared or common) near memory)) with availab $ 6 and @ ad < 20021217) and (motor or vehicle or automobile or automotive or ecu)	PGPB	17	OR	YES		09-20-2020
(((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231)))))).cpc.) and (request $ 3 or messag $ 3 or (shared or common) near memory) with (storing or sav $ 3)	PGPB	6674	OR	YES		09-20-2020
(((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231)))))).cpc. and (request $ 3 or messag $ 3 or (shared or common) near memory) with (storing or sav $ 3)) and (motor or vehicle or automobile or automotive or ecu)	PGPB	1328	OR	YES		09-20-2020
(((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231)))))).cpc.) and (bb or bulletin adj board or storage) with availab $ 6	PGPB	4995	OR	YES		09-20-2020
(((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231)))))).cpc. and (bb or bulletin adj board or storage) with availab $ 6) and (motor or vehicle or automobile or automotive or ecu)	PGPB	1395	OR	YES		09-20-2020
(((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10))))))	PGPB	17	OR	YES		09-20-2020

((((((H04L67/10)))))) ((((((B60R16/0231)))))).cpc. and (bb or bulletin adj board or storage) with availab $ 6 and (motor or vehicle or automobile or automotive or ecu)) and @ ad < 20021217						

Prior Art Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
10248477.PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6	OR	YES		09-20-2020
10031790.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		09-20-2020
10002036.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		09-20-2020
9575817.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		09-20-2020
8566843.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		09-20-2020
8209705.pn.	PGPB, USPT,	3	OR	YES		09-20-2020

	USOC, EPAB, JPAB, DWPI, TDBD					
7802263.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		09-20-2020
10031790.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		09-20-2020
100020360.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		09-20-2020
10020360.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	7	OR	YES		09-20-2020
100020360.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		09-20-2020
10002036.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	4	OR	YES		09-20-2020

	TDBD					
9575817.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		09-20-2020
8566843.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		09-20-2020
8209705.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3	OR	YES		09-20-2020
7802263.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		09-20-2020
"FUCHS-AXEL"!	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	60	OR	YES		09-20-2020
"FUCHS-AXEL"!	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	60	OR	YES		09-20-2020
"ANDREWS-SCOTT-STURGES"!	PGPB, USPT, USOC,	25	OR	YES		09-20-2020

	EPAB, JPAB, DWPI, TDBD					
(((((((G06F9/542))))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231))))))).cpc.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	87210	OR	YES		09-20-2020
((request or message or query) and (storage near availab$6)).ab, ti.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	817	OR	YES		09-20-2020
(bulletin near board or "bb") and (((request or message or query) and (storage near availab$6)).ab, ti.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	76	OR	YES		09-20-2020
((bulletin near board or "bb") and ((request or message or query) and (storage near availab$6)).ab, ti.) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		09-20-2020
(bulletin near board or "bb").ab, ti.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	37460	OR	YES		09-20-2020
(bb or bulletin adj board or storage) with availab$6	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	401597	OR	YES		09-20-2020

((bulletin near board or "bb").ab, ti.) and ((bb or bulletin adj board or storage) with availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	405	OR	YES		09-20-2020
((bulletin near board or "bb").ab, ti. and (bb or bulletin adj board or storage) with availab$6) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	112	OR	YES		09-20-2020
(((((((G06F9/542))))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231))))))).cpc.) and ((bulletin near board or "bb").ab, ti. and (bb or bulletin adj board or storage) with availab$6 and @ad<20021217)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		09-20-2020
((bb or bulletin adj board or storage) with availab$6) and (motor or vehicle or automobile or automotive or ecu)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	110710	OR	YES		09-20-2020
((bb or bulletin adj board or storage) with availab$6 and (motor or vehicle or automobile or automotive or ecu)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	16142	OR	YES		09-20-2020
(((request or message or query) and (storage near availab$6)).ab, ti.) and ((bb or bulletin adj board or storage) with availab$6 and (motor or vehicle or automobile or automotive or ecu) and @ad<20021217)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3	OR	YES		09-20-2020
((bb or bulletin adj board or storage) with availab$6 and (motor or vehicle or automobile or automotive or ecu) and @ad<20021217) and (((((((G06F9/542))))))) ((((((G06F9/545))))))	PGPB, USPT, USOC, EPAB,	63	OR	YES		09-20-2020

((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231)))))).cpc.)	JPAB, DWPI, TDBD					
(shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	692	OR	YES		09-20-2020
((shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	217	OR	YES		09-20-2020
((shared or common) near memory with (timer or time$1out or watchdog) and @ad<20021217) and (request$3 or messag$3) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	41	OR	YES		09-20-2020
(request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	121	OR	YES		09-20-2020
((request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		09-20-2020
(direct adj memory adj access or dma) with (timer or time$1out)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6107	OR	YES		09-20-2020
		814	OR	YES		09-20-2020

((direct adj memory adj access or dma) with (timer or time$1out)) and (shared or common) near memory with (request$3 or memory or access$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
((direct adj memory adj access or dma) with (timer or time$1out) and (shared or common) near memory with (request$3 or memory or access$3)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	317	OR	YES		09-20-2020
((direct adj memory adj access or dma) with (timer or time$1out) and (shared or common) near memory with (request$3 or memory or access$3) and @ad<20021217) and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	74	OR	YES		09-20-2020
(shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	120	OR	YES		09-20-2020
((shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	27	OR	YES		09-20-2020
availab$7 with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	27366	OR	YES		09-20-2020
(availab$7 with (timer or time$1out or watchdog)) and (shared or common) near memory	PGPB, USPT, USOC, EPAB,	1341	OR	YES		09-20-2020

	JPAB, DWPI, TDBD					
(availab$7 with (timer or time$1out or watchdog) and (shared or common) near memory) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	371	OR	YES		09-20-2020
(availab$7 with (timer or time$1out or watchdog) and (shared or common) near memory and @ad<20021217) and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	116	OR	YES		09-20-2020
(request$3 or messag$3 or query$3) with (shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	18	OR	YES		09-20-2020
(request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	121	OR	YES		09-20-2020
((request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		09-20-2020
(shared or common) near memory with availab$6	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6579	OR	YES		09-20-2020
		618	OR	YES		09-20-2020

((shared or common) near memory with availab$6) and (motor or vehicle or automobile or automotive or ecu)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
((shared or common) near memory with availab$6 and (motor or vehicle or automobile or automotive or ecu)) and ((((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231))))))).cpc.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	26	OR	YES		09-20-2020
((shared or common) near memory with availab$6 and (motor or vehicle or automobile or automotive or ecu) and (((((((G06F9/542))))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231))))))).cpc.) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1	OR	YES		09-20-2020
(((((((G06F9/542))))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231))))))).cpc.	PGPB	30655	OR	YES		09-20-2020
(bb or bulletin adj board or storage or((shared or common) near memory)) with availab$6	PGPB	194722	OR	YES		09-20-2020
((((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231))))))).cpc.) and ((bb or bulletin adj board or storage or((shared or common) near memory)) with availab$6)	PGPB	5133	OR	YES		09-20-2020
((((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231))))))).cpc. and (bb or bulletin adj board or storage or((shared or common) near memory)) with availab$6) and (motor or vehicle or automobile or automotive or ecu)	PGPB	1403	OR	YES		09-20-2020
((((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231))))))).cpc. and (bb or bulletin adj board or storage or((shared or common) near memory)) with availab$6 and (motor or	PGPB	17	OR	YES		09-20-2020

vehicle or automobile or automotive or ecu)) and @ad<20021217						
(5941947 5230051 5388189 5513324 5737529 5923846 6128315 6185466 6430607 6438632 6941510 6363427 6725348 7950017 5265250 5666485).pn.	USPT	16	OR	YES		09-20-2020
20010018685 20020032856 20020191543 20020002586 20020047868 20030154116 20030236894 20030088568 20020198943 20020159460 20020188691 20030061388 20030074474 20040003087 20060155907 20060155867 20070101206 20100333096 20110047218 20110047310 20120029898 20130111299	PGPB	24	OR	YES		09-20-2020
20020073243	PGPB	2	OR	YES		09-20-2020
(7552410 5956489 6289390 6378001 6801942 6034970 7103045 7103646 7103656 5588002).pn.	USPT	10	OR	YES		09-20-2020
(6141710 6484082 7552440).pn.	USPT	3	OR	YES		09-20-2020
((5941947 5230051 5388189 5513324 5737529 5923846 6128315 6185466 6430607 6438632 6941510 6363427 6725348 7950017 5265250 5666485).pn.) or (20010018685 20020032856 20020191543 20020002586 20020047868 20030154116 20030236894 20030088568 20020198943 20020159460 20020188691 20030061388 20030074474 20040003087 20060155907 20060155867 20070101206 20100333096 20110047218 20110047310 20120029898 20130111299) or (20020073243) or ((7552410 5956489 6289390 6378001 6801942 6034970 7103045 7103646 7103656 5588002).pn.) or ((6141710 6484082 7552440).pn.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	55	OR	YES		09-20-2020
((5941947 5230051 5388189 5513324 5737529 5923846 6128315 6185466 6430607 6438632 6941510 6363427 6725348 7950017 5265250 5666485).pn. or 20010018685 20020032856 20020191543 20020002586 20020047868 20030154116 20030236894 20030088568 20020198943 20020159460 20020188691 20030061388 20030074474 20040003087 20060155907 20060155867 20070101206 20100333096 20110047218 20110047310 20120029898 20130111299 or 20020073243 or (7552410 5956489 6289390 6378001 6801942 6034970 7103045 7103646 7103656 5588002).pn. or (6141710 6484082 7552440).pn.) and	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	43	OR	YES		09-20-2020

@ad<20021217						
(shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	692	OR	YES		09-20-2020
((shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	217	OR	YES		09-20-2020
((shared or common) near memory with (timer or time$1out or watchdog) and @ad<20021217) and (request$3 or messag$3) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	41	OR	YES		09-20-2020
(request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	121	OR	YES		09-20-2020
((request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		09-20-2020
(direct adj memory adj access or dma) with (timer or time$1out)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6107	OR	YES		09-20-2020
((direct adj memory adj access or dma) with (timer or time$1out)) and (shared or common) near memory with (request$3 or memory or	PGPB, USPT, USOC,	814	OR	YES		09-20-2020

access$3)	EPAB, JPAB, DWPI, TDBD					
((direct adj memory adj access or dma) with (timer or time$1out) and (shared or common) near memory with (request$3 or memory or access$3)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	317	OR	YES		09-20-2020
((direct adj memory adj access or dma) with (timer or time$1out) and (shared or common) near memory with (request$3 or memory or access$3) and @ad<20021217) and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	74	OR	YES		09-20-2020
(shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	120	OR	YES		09-20-2020
((shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	27	OR	YES		09-20-2020
availab$7 with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	27366	OR	YES		09-20-2020
(availab$7 with (timer or time$1out or watchdog)) and (shared or common) near memory	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1341	OR	YES		09-20-2020

(availab$7 with (timer or time$1out or watchdog) and (shared or common) near memory) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	371	OR	YES		09-20-2020
(availab$7 with (timer or time$1out or watchdog) and (shared or common) near memory and @ad<20021217) and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	116	OR	YES		09-20-2020
(request$3 or messag$3 or query$3) with (shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	18	OR	YES		09-20-2020
(request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	121	OR	YES		09-20-2020
((request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		09-20-2020
("20020073243" | "20020124007" | "5588002" | "5854454" | "5956489" | "6034970" | "6141710" | "6289390" | "6378001" | "6484082" | "6801942" | "7103045" | "7103646" | "7103656" | "7552440").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	44	OR	YES		09-20-2020
(("20020073243" | "20020124007" | "5588002" | "5854454" | "5956489" | "6034970" | "6141710" | "6289390" | "6378001" | "6484082" | "6801942" | "7103045" |	PGPB, USPT, USOC, EPAB,	16	OR	YES		09-20-2020

"7103646" | "7103656" | "7552440").PN.) and (motor or vehicle or automobile or automotive or ecu)	JPAB, DWPI, TDBD					
(("20020073243" | "20020124007" | "5588002" | "5854454" | "5956489" | "6034970" | "6141710" | "6289390" | "6378001" | "6484082" | "6801942" | "7103045" | "7103646" | "7103656" | "7552440").PN. and (motor or vehicle or automobile or automotive or ecu)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	16	OR	YES		09-20-2020
(("20020073243" | "20020124007" | "5588002" | "5854454" | "5956489" | "6034970" | "6141710" | "6289390" | "6378001" | "6484082" | "6801942" | "7103045" | "7103646" | "7103656" | "7552440").PN.) and (bb or bulletin adj board or storage) with availab$6	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1	OR	YES		09-20-2020
(("20020073243" | "20020124007" | "5588002" | "5854454" | "5956489" | "6034970" | "6141710" | "6289390" | "6378001" | "6484082" | "6801942" | "7103045" | "7103646" | "7103656" | "7552440").PN.) and (shared or common) near memory with (request$3 or memory or access$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6	OR	YES		09-20-2020
(("20020073243" | "20020124007" | "5588002" | "5854454" | "5956489" | "6034970" | "6141710" | "6289390" | "6378001" | "6484082" | "6801942" | "7103045" | "7103646" | "7103656" | "7552440").PN. and (shared or common) near memory with (request$3 or memory or access$3)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6	OR	YES		09-20-2020

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(Not for submission under 37 CFR 1.99)

Application Number	16042159
Filing Date	2018-07-23
First Named Inventor	Axel Fuchs
Art Unit	2194
Examiner Name	Charles E ANYA
Attorney Docket Number	SVIPGP061H

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	1	5588002	A	1996-12-24	Kawanishi et al.	Entire Document
	2	5854454	A	1998-12-29	Upender et al.	Entire Document
	3	5956489	A	1999-09-21	Andres et al.	Entire Document
	4	6034970	A	2000-03-07	Levac et al.	Entire Document
	5	6141710	A	2000-10-31	Miesterfeld	Entire Document
	6	6289390	B1	2001-09-11	Kavner	Entire Document
	7	6378001	B1	2002-04-23	Aditham et al.	Entire Document
	8	6484082	B1	2002-11-19	Millsap et al.	

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	9	6801942	B1	2004-10-05	Dietrich et al.	Entire Document
	10	7103045	B2	2006-09-05	LaVigne et al.	Entire Document
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	12	7103656	B2	2006-09-05	Lewis et al.	Entire Document
	13	7552440	B1	2009-06-23	Stewart et al.	Entire Document

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	1	"An Embedded Software Primer," David E. Simon, 1999	
	2	"Application of In-Vehicle Data Buses for Collision Avoidance Systems," William D. Horne, et al., 1998	
	3	"Goals and Motivation: What is OSEK/VDX," OSEK VDX Portal, 2012	
	4	"GSA Guide to Specifying Interoperable Building Automation and Control Systems Using ANSI/ASHRAE Standard 135-1995," Steven T. Bushby et al., November 1999	
	5	"OSEK/VDX Binding Specification Version 1.3," OSEK Group, Sept. 17, 2001	
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	9	"OSEK/VDX Communication Specification Version 3.0," OSEK Group, July 26, 2002	
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	17	"OSEK/VDX OSEK Implementation Language Specification Version 2.4," OSEK Group, Dec. 2, 2002	
	18	"OSEK/VDX OSEK Implementation Language Specification Version 2.4.1," OSEK Group, Jan. 23, 2003	
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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

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Signature	/Patrick Caldwell/	Date (YYYY-MM-DD)	2020-09-10
Name/Print	Patrick Caldwell	Registration Number	44580

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	1	Schill, John "An Overview of the CAN Protocol," Embedded Systems Programming, Sept 1997, pages 46-62	
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	Filing Date	2018-07-23
	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

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	/Patrick Caldwell/	Date (YYYY-MM-DD)	2020-09-10
Name/Print	Patrick Caldwell	Registration Number	44580

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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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:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.E.A/

Bibliographic Data

Application No: 16/042,159

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /CHARLES E ANYA/ (Examiner's Signature) (Initials)

Title: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
07/23/2018	719	2194	SVIPGP061H
RULE			

APPLICANTS

Stragent, LLC, Longview, TX,

INVENTORS

Axel Fuchs, San Jose, CA, UNITED STATES

Scott Sturges Andrews, Petaluma, CA, UNITED STATES

CONTINUING DATA

This application is a CON of 15919201 03/12/2018 PAT 10031790

15919201 is a CON of 15405110 01/12/2017 PAT 10002036

15405110 is a CON of 14011705 08/27/2013 PAT 9575817

14011705 is a CON of 13531319 06/22/2012 PAT 8566843

13531319 is a CON of 12182570 07/30/2008 PAT 8209705

12182570 is a CON of 10737690 12/15/2003 PAT 7802263

10737690 has PRO of 60434018 12/17/2002

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

08/29/2018

STATE OR COUNTRY

UNITED STATES

ADDRESS

The Caldwell Firm, LLC

PO Box 59655

Dept. SVIPGP

Dallas, TX 75229

UNITED STATES

FILING FEE RECEIVED

$1,720

PTO/SB/30EFS (02-18)
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REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	16/042,159	Filing Date	2018-07-23	Docket Number (if applicable)	SVIPGP061H	Art Unit	2194
First Named Inventor	Axel Fuchs			Examiner Name	Charles E ANYA		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☐ Amendment/Reply
- ☒ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

MISCELLANEOUS

☒ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months 3
(Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 504964

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

Applicant Signature

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Signature of Registered U.S. Patent Practitioner			
Signature	/Patrick Caldwell/	Date (YYYY-MM-DD)	2020-09-10
Name	Patrick Caldwell	Registration Number	44580

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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

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PTO/SB/08a (02-18)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
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Application Number	16042159
Filing Date	2018-07-23
First Named Inventor	Axel Fuchs
Art Unit	2194
Examiner Name	Charles E ANYA
Attorney Docket Number	SVIPGP061H

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	5588002	A	1996-12-24	Kawanishi et al.	Entire Document
	2	5854454	A	1998-12-29	Upender et al.	Entire Document
	3	5956489	A	1999-09-21	Andres et al.	Entire Document
	4	6034970	A	2000-03-07	Levac et al.	Entire Document
	5	6141710	A	2000-10-31	Miesterfeld	Entire Document
	6	6289390	B1	2001-09-11	Kavner	Entire Document
	7	6378001	B1	2002-04-23	Aditham et al.	Entire Document
	8	6484082	B1	2002-11-19	Millsap et al.	

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	9	6801942	B1	2004-10-05	Dietrich et al.	Entire Document
	10	7103045	B2	2006-09-05	LaVigne et al.	Entire Document
	11	7103646	B1	2006-09-05	Suzuki	Entire Document
	12	7103656	B2	2006-09-05	Lewis et al.	Entire Document
	13	7552440	B1	2009-06-23	Stewart et al.	Entire Document

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	1	20020073243	A1	2002-06-13	Staiger	Entire Document
	2	20020124007	A1	2002-09-05	Zhao	Entire Document

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
	1	"An Embedded Software Primer," David E. Simon, 1999	
	2	"Application of In-Vehicle Data Buses for Collision Avoidance Systems," William D. Horne, et al., 1998	
	3	"Goals and Motivation: What is OSEK/VDX," OSEK VDX Portal, 2012	
	4	"GSA Guide to Specifying Interoperable Building Automation and Control Systems Using ANSI/ASHRAE Standard 135-1995," Steven T. Bushby et al., November 1999	
	5	"OSEK/VDX Binding Specification Version 1.3," OSEK Group, Sept. 17, 2001	
	6	"OSEK/VDX Binding Specification Version 1.4," OSEK Group, Sept. 6, 2002	
	7	"OSEK/VDX Binding Specification Version 1.4.1," OSEK Group, Jan. 21, 2003	
	8	"OSEK/VDX Communication Specification Version 2.2.2," OSEK Group, Dec. 18, 2000	

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	9	"OSEK/VDX Communication Specification Version 3.0," OSEK Group, July 26, 2002	
	10	"OSEK/VDX Communication Specification Version 3.0.1," OSEK Group, Jan. 29, 2003	
	11	"OSEK/VDX Communication Specification Version 3.0.2," OSEK Group, Dec. 9, 2003	
	12	"OSEK/VDX Fault-Tolerant Communication Specification Version 1.0," OSEK Group, July 24, 2001	
	13	"OSEK/VDX Network Management Concept and Application Programming Interface Version 2.5.0," OSEK Group, May 31, 1998	
	14	"OSEK/VDX Network Management Concept and Application Programming Interface Version 2.5.1," OSEK Group, May 31, 2000	
	15	"OSEK/VDX Network Management Concept and Application Programming Interface Version 2.5.2," OSEK Group, Jan. 16, 2003	
	16	"OSEK/VDX OSEK Implementation Language Specification Version 2.3," OSEK Group, Sept. 10, 2001	
	17	"OSEK/VDX OSEK Implementation Language Specification Version 2.4," OSEK Group, Dec. 2, 2002	
	18	"OSEK/VDX OSEK Implementation Language Specification Version 2.4.1," OSEK Group, Jan. 23, 2003	
	19	"OSEK/VDX OSEK Operating System Specification Version 2.0 revision 1," OSEK Group, Oct. 15, 1997	

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	20	"OSEK/VDX OSEK Operating System Specification Version 2.1 revision 1," OSEK Group, Nov. 13, 2000	
	21	"OSEK/VDX OSEK Operating System Specification Version 2.2," OSEK Group, Sept. 10, 2001	
	22	"OSEK/VDX OSEK Operating System Specification Version 2.2.1," OSEK Group, Jan. 16, 2003	
	23	"OSEK/VDX OSEK Run Time Interface Part A: Language Specification Version 2.1," OSEK Group, July 16, 2001	
	24	"OSEK/VDX Time-Triggered Operating System Specification Version 1.0," OSEK Group, July 24, 2001	
	25	"Programming in the OSEK/VDX Environment," Joseph Lemieux, 2001	
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	27	Berwanger et al "FlexRay – The Communication System for Advanced Automotive Control Systems" 2001-01-0676, SAE 2001 World Congress, March 5-8, 2001	
	28	Bosch, "CAN Specification Version 2.0" Sep 1991	
	29	Clarke et al "Formal Verification of Autonomous Systems NASA Intelligent Systems Program" Carnegie Mellon University, September 25, 2001	
	30	Courtois et al "Concurrent Control with "Readers" and "Writers"" Communications of the ACM, Vol. 14, No. 10, Oct 1971	

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	31	Fredriksson, Lars-Berno "Controller Area Networks and the Protocol can for Machine Control Systems" Mechatronics Vol. 4, No. 2, pp. 159-172, 1994	
	32	Giusto et al, "Automotive Virtual Integration Platforms: Why's, What's, and How's" Sept 2002, Proceedings of the 2002 IEEE International Conference on Computer Design: VLSI in Computers and Processors (ICCD'02)	
	33	Hernandez et al "Algorithms and architectures for real-time control 2000," Proceedings volume from the 6th IFAC Workshop, Palma de Mallorca, Spain, May 15-17, 2000	
	34	IEEE "IEEE Standard for Information Technology—Portable Operating System Interface (POSIX®)—Part 1: System Application Program Interface (API)—Amendment d: Additional Realtime Extensions," IEEE Std 1003.1d-1999 (Amendment to IEEE Std 1003.1-1990), June 16, 2000	
	35	IEEE "The Authoritative Dictionary of IEEE Standards Terms" 7th Ed., IEEE Press, 2000	
	36	Intelligent Transportation Systems Standards, United States Department of Transportation "SAE J2366 - Family of ITS Data Bus (IDB) Protocol Standards," (online fact sheet written July 12, 2006), available at https://www.standards.its.dot.gov/Factsheets/PrintFactsheet/56	
	37	Jagannathan et al. "Blackboard Architectures and Applications," Vol. 3, Academic Press Inc., 1989, 524 pages	
	38	Juan Luis Posadas, et al., "Communications Structure for Sensor Fusion in Distributed Real Time Systems," May 2000, Algorithms and Architectures for Real-Time Control 2000: A Proceedings volume from the 6th IFAC Workshop	
	39	Kirrmann et al. "The IEC/IEEE Train Communication Network," IEEE Micro, March-April 2001	
	40	Koopman, Philip "Control Area Network (CAN)" 18-540 Distributed Embedded Systems, Presentation Slides, October 4, 2000	
	41	Leen et al, "Digital networks in the automotive vehicle," Computing and Control Engineering 10(6):257 - 266, January 2000	

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	42	Leen et al. "Expanding Automotive Electronic Systems" Jan 2002, Computer 35(1)	
	43	Mellor-Crummey et al. "Algorithms for Scalable Synchronization on Shared-Memory Multiprocessors," ACM Transactions on Computer Systems, Vol. 9, No. 1, February 1991, Pages 21-65	
	44	OSEK/VDX Network Management Concept and Application Programming Interface, Version 2.51 (May 31, 2000).	
	45	Posadas et al. "Communications Structure for Sensory Data In Mobile Robots" 2002 , Engineering Applications of Artificial Intelligence, 15:341-350	
	46	Reinhard Maier, "Event-Triggered Communication on Top of Time-Triggered Architecture," Proceedings of the 21st Digital Avionics Systems Conference, vol. 2, 13.C.5-1-13.C.5-9 (Oct. 27-31, 2002)	
	47	SAE International, "Surface Vehicle Recommended Practice - SAE J2366-1" Nov 2001	
	48	SAE International, "Surface Vehicle Recommended Practice - SAE J2366-2" Nov 2001	
	49	SAE International, "Surface Vehicle Standard - SAE J1850" Rev May 2001	
	50	SAE, "ITS Data Bus—IDB-C Physical Layer" Nov 2001, Surface Vehicle Recommended Practice, J2366-1	

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*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.

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Signature	/Patrick Caldwell/	Date (YYYY-MM-DD)	2020-09-10
Name/Print	Patrick Caldwell	Registration Number	44580

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:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

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
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	16042159
	Filing Date	2018-07-23
	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16042159
	Filing Date	2018-07-23
	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

	1	Schill, John "An Overview of the CAN Protocol," Embedded Systems Programming, Sept 1997, pages 46-62	
	2	Stewart et al. "The Chimera II Real-Time Operating System for Advanced Sensor-Based Control Applications" 1992, IEEE Transactions On Systems, Man, and Cybernetics, Vol. 22, No. 6	
	3	Stewart et al., "Integration of Real-Time Software Modules for Reconfigurable Sensor-Based Control Systems," Proceedings of the 1992 IEEE/RSJ International Conference on Intelligent Robots and Systems, July 7-10 1992	
	4	Tanenbaum, Andrew S. "Computer Networks," 3rd Ed., Prentice Hall, Inc, 1996, pages 1-76 (Introduction)	
	5	Tanenbaum, Andrew S. "Modern Operating Systems," 2nd Ed., Prentice Hall, Inc., 2001, excerpts from Chapters 2, 7, 8, and 10	
	6	Upender et al., "Embedded Communication Protocol Options," Proceedings of the Fifth Annual Embedded Systems Conference, Vol. 2, Miller Freeman, Inc., 1993	
	7	Wargui et al. "Application of Controller Area Network to Mobile Robots," IEEE, Electrotechnical Conference, May 16, 1996, page 205-207	
	8	Wense et al. "Building Automotive LIN Applications," pages 279-292, found as part of Krueger et al., "Advanced Microsystems for Automotive Applications 2001," Springer, 2001	
	9	William Wong, "Software And Hardware Standards Help, But In-Vehicle Network Growth Will Be Conservative: CAN networks and OSEK/VDX compatible operating systems will drive tomorrow's vehicles," Electronic Design, vol. 49, issue 1, 62 (Jan. 8, 2001)	

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

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16042159
	Filing Date	2018-07-23
	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

[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	16042159
	Filing Date	2018-07-23
	First Named Inventor	Axel Fuchs
	Art Unit	2194
	Examiner Name	Charles E ANYA
	Attorney Docket Number	SVIPGP061H

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	/Patrick Caldwell/	Date (YYYY-MM-DD)	2020-09-10
Name/Print	Patrick Caldwell	Registration Number	44580

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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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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	Confirmation No.: 9106
Axel Fuchs	Examiner: Charles E ANYA
Application No.: 16/042,159	Art Unit: 2194
File Date: 2018-07-23	Docket No.: SVIPGP061H
Title: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK	Date: Sep 10, 2020

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.56 AND 1.97(b)

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

Examiner:

The reference(s) listed in the attached PTO Form 1449, cop(ies) of which is attached (when necessary), may be material to examination of the above-identified patent application. Applicants submit the reference(s) in compliance with their duty of disclosure pursuant to 37 CFR §§ 1.56 and 1.97. The Examiner is requested to make the reference(s) of official record in this application.

Per MPEP 609.02, applicant may not necessarily have re-submitted all of the disclosures, references, etc. cited in any parent application(s)/patent(s). It is assumed that, per such MPEP section, the Examiner has considered the same in connection with the instant application. If applicant's assumption is in error or the Examiner requires re-submission of any such references, etc., applicant requests that the Examiner contact the undersigned so that applicant can address the same. This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that the reference(s) indeed constitutes prior art.

Related patents (e.g. US8209705, US8566843, and US9705765) are (or were) the subject of litigation (EDTX 6:16-cv-00446 (closed), EDTX 6:16-cv-00447 (closed), EDTX 6:16-cv-00448 (closed); DEL 1:20-cv-00510 (pending), 1:20-cv-00511 (pending), 1:20-cv-00512 (pending)). Further, related patents (e.g. US8209705, US8566843, and US9705765) are (or were) the subject of pending inter partes reviews (IPR2017-00457 (closed), IPR2017-00458 (closed), IPR2017-00676 (closed), IPR2017-00677 (closed), IPR2017-01502 (closed), IPR2017-01503 (closed), IPR2017-01504 (closed), IPR2017-01519 (closed), IPR2017-01520 (closed), IPR2017-01521 (closed), IPR2017-01522 (closed)) and the references cited therein are (or were) submitted.

Application No.: 16/042,159
Date: Sep 10, 2020
Information Disclosure Statement

This Information Disclosure Statement is believed to be filed within three months of the filing date of a national application other than a continued prosecution application, within three months of the date of entry of the national stage in an international application, before the mailing of a first Office action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination. Accordingly, it is believed that no fees are due in connection with the filing of this Information Disclosure Statement.

Respectfully submitted,



Dated: 10 Sep 2020

The Caldwell Firm, LLC
PO Box 59655
Dallas, Texas 75229-0655
Telephone: (214) 734-2313
pcaldwell@thecaldwellfirm.com

Patrick E. Caldwell, Esq.
Reg. No. 44,580

Electronic Patent Application Fee Transmittal	
Application Number:	16042159
Filing Date:	23-Jul-2018
Title of Invention:	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK
First Named Inventor/Applicant Name:	Axel Fuchs
Filer:	Patrick Edgar Caldwell
Attorney Docket Number:	SVIPGP061H

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
PROCESSING FEE, EXCEPT PROV. APPLS.	1830	1	140	140
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
RCE- 1ST REQUEST	1801	1	1300	1300
		Total in USD ($)		**1440**

Electronic Acknowledgement Receipt	
EFS ID:	40526337
Application Number:	16042159
International Application Number:	
Confirmation Number:	9106
Title of Invention:	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK
First Named Inventor/Applicant Name:	Axel Fuchs
Customer Number:	92045
Filer:	Patrick Edgar Caldwell
Filer Authorized By:	
Attorney Docket Number:	SVIPGP061H
Receipt Date:	10-SEP-2020
Filing Date:	23-JUL-2018
Time Stamp:	21:05:38
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$1440
RAM confirmation Number	E202090L05578328
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Authorized User	
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	SVIPGP061H_RCE_20200910_vF.pdf	1364037 60401ac269209df8d2e1d29c76c232a848676f21	no	3
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	SVIPGP061H_IDS_20200910_1_OF_2_vF.pdf	1056007 f9879cd4aaac0329fbf2c97b7f475b6a5470d60d	no	10
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	SVIPGP061H_IDS_20200910_2_OF_2_vF.pdf	1053781 d2bfae132fb4814e29507f1b2e7ba2002a75f00a	no	5
Warnings:					
Information:					
A U.S. Patent Number Citation or a U.S. Publication Number Citation is required in the Information Disclosure Statement (IDS) form for autoloading of data into USPTO systems. You may remove the form to add the required data in order to correct the Informational Message if you are citing U.S. References. If you chose not to include U.S. References, the image of the form will be processed and be made available within the Image File Wrapper (IFW) system. However, no data will be extracted from this form. Any additional data such as Foreign Patent Documents or Non Patent Literature will be manually reviewed and keyed into USPTO systems.					
4	Transmittal Letter	SVIPGP061H_IDS_20200910_coversheet_vF.pdf	58919 b73083a2e11674d11cd15bae8a53ce7eb84b625f	no	3
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	32572 1bd90b4f07183165e44ceba35828b73f0bd08279	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	3565316		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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The Caldwell Firm, LLC
PO Box 59655
Dept. SVIPGP
Dallas, TX 75229

Courtesy Reminder for
Application Serial No: 16/042,159

Attorney Docket No: SVIPGP061H
Customer Number: 92045
Date of Electronic Notification: 06/10/2020

This is a courtesy reminder that new correspondence is available for this application. If you have not done so already, please review the correspondence. The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

An email notification regarding the correspondence was sent to the following email address(es) associated with your customer number:
pcaldwell@thecaldwellfirm.com
eofficeaction@appcoll.com

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NOTICE OF ALLOWANCE AND FEE(S) DUE

92045 7590 06/10/2020

The Caldwell Firm, LLC
PO Box 59655
Dept. SVIPGP
Dallas, TX 75229

EXAMINER
ANYA, CHARLES E

ART UNIT	PAPER NUMBER
2194	

DATE MAILED: 06/10/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/042,159	07/23/2018	Axel Fuchs	SVIPGP061H	9106

TITLE OF INVENTION: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	09/10/2020

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 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity 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 and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

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

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

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

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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 including the Patent, advance orders and notification of maintenance fees 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.

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

92045 7590 06/10/2020

The Caldwell Firm, LLC
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Dallas, TX 75229

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 EFS-Web 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.
16/042,159	07/23/2018	Axel Fuchs	SVIPGP061H	9106

TITLE OF INVENTION: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	09/10/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
ANYA, CHARLES E	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/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 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) ❑Advance Order - # of Copies _____

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

❑ Electronic Payment via EFS-Web ❑ 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.
16/042,159	07/23/2018	Axel Fuchs	SVIPGP061H	9106

92045 7590 06/10/2020

The Caldwell Firm, LLC
PO Box 59655
Dept. SVIPGP
Dallas, TX 75229

EXAMINER	
ANYA, CHARLES E	

ART UNIT	PAPER NUMBER
2194	

DATE MAILED: 06/10/2020

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. 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:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
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 inspection 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.

Notice of Allowability	Application No. 16/042,159	Applicant(s) Fuchs et al.	
	Examiner CHARLES E ANYA	Art Unit 2194	AIA (FITF) Status No

-- 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 05/25/20.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

3. ☑ The allowed claim(s) is/are 1-20 . 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. _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/CHARLES E ANYA/
Primary Examiner, Art Unit 2194

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	**Art Unit**
	CHARLES E ANYA	2194

CPC						
Symbol					**Type**	**Version**
G06F	/	9	/	546	F	2013-01-01
G06F	/	9	/	542	I	2013-01-01
G06F	/	9	/	545	I	2013-01-01
G06F	/	9	/	54	I	2013-01-01
H04L	/	43	/	04	I	2013-01-01
H04L	/	43	/	06	I	2013-01-01
H04L	/	43	/	08	I	2013-01-01
H04L	/	67	/	02	I	2013-01-01
H04L	/	67	/	12	I	2013-01-01
B60R	/	16	/	0231	I	2013-01-01
H04L	/	43	/	10	I	2013-01-01
H04L	/	67	/	10	I	2013-01-01
G06F	/	2209	/	547	A	2013-01-01
H04L	/	65	/	102	A	2013-01-01

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

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/CHARLES E ANYA/ Primary Examiner, Art Unit 2194	02 June 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	10

U.S. Patent and Trademark Office — Part of Paper No.: 20200602

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	Art Unit
	CHARLES E ANYA	2194

INTERNATIONAL CLASSIFICATION				
CLAIMED				
G06F9/54	/	9	/	54
H04L12/26	/	12	/	26
H04L29/08	/	29	/	08
B60R16/023	/	16	/	023
CPCONLY	/	NLY	/	
H04L29/06	/	29	/	06

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

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

NONE (Assistant Examiner)	(Date)	Total Claims Allowed: 20	
/CHARLES E ANYA/ Primary Examiner, Art Unit 2194 (Primary Examiner)	02 June 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 10

U.S. Patent and Trademark Office — Part of Paper No.: 20200602

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	**Art Unit**
	CHARLES E ANYA	2194

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

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		10		19										
	2		11		20										
	3		12												
	4		13												
	5		14												
	6		15												
	7		16												
	8		17												
	9		18												

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 20	
/CHARLES E ANYA/ Primary Examiner, Art Unit 2194 (Primary Examiner)	02 June 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 10

U.S. Patent and Trademark Office Part of Paper No.: 20200602

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	Art Unit
	CHARLES E ANYA	2194

CPC - Searched*		
Symbol	**Date**	**Examiner**
(G06F9/542 G06F9/545 G06F9/546 H04L43/10 H04L67/10 B60R16/023)	06/02/2020	ca

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**
The group/subgroup search is limited by text search	12/18/2019	ca
Inventor Search	12/18/2019	ca
West (G06F9/542 G06F9/545 G06F9/546 H04L43/10 H04L67/10 B60R16/023)	12/18/2019	ca
Inventor Search	06/02/2020	ca
(G06F9/542 G06F9/545 G06F9/546 H04L43/10 H04L67/10 B60R16/023)	06/02/2020	ca

/CHARLES E ANYA/ Primary Examiner, Art Unit 2194	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	Art Unit
	CHARLES E ANYA	2194

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
(G06F9/542 G06F9/545 G06F9/546 H04L43/10 H04L67/10 B60R16/023)		06/02/2020	ca

/CHARLES E ANYA/ Primary Examiner, Art Unit 2194	

WEST Search History for Application 16042159

Creation Date: 2020060215:21

Interference Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231)))))).cpc.	PGPB	29484	OR	YES		06-02-2020
((((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231)))))).cpc.) and (request $ 3 or messag $ 3 or query $ 3) with (shared or common) near memory with (timer or time $ 1out or watchdog)	PGPB	1	OR	YES		06-02-2020
((((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231)))))).cpc.) and (motor or vehicle or automobile or automotive or ecu)	PGPB	6405	OR	YES		06-02-2020
((((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231)))))).cpc. and (motor or vehicle or automobile or automotive or ecu)) and (request $ 3 or messag $ 3) with (storing or sav $ 3)	PGPB	1237	OR	YES		06-02-2020
((((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231)))))).cpc. and (motor or vehicle or automobile or automotive or ecu) and (request $ 3 or messag $ 3) with (storing or sav $ 3)) and (shared or common) near memory	PGPB	104	OR	YES		06-02-2020
((((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231)))))).cpc. and (motor or vehicle or automobile or automotive or ecu) and (request $ 3 or messag $ 3) with (storing or sav $ 3) and (shared or common) near memory) and @ ad < 20021217	PGPB	4	OR	YES		06-02-2020
((((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231)))))).cpc.) and (bb or bulletin adj board or storage or ((shared or	PGPB	4921	OR	YES		06-02-2020

common) near memory)) with availab $ 6						
(((((((G06F9/542))))) (((((G06F9/545))))) (((((G06F9/546))))) (((((H04L43/10))))) (((((H04L67/10))))) (((((B60R16/0231)))))).cpc.) and (bb or bulletin adj board or storage or ((shared or common) near memory)) with availab $ 6	PGPB	4921	OR	YES		06-02-2020
(((((((G06F9/542))))) (((((G06F9/545))))) (((((G06F9/546))))) (((((H04L43/10))))) (((((H04L67/10))))) (((((B60R16/0231)))))).cpc. and (bb or bulletin adj board or storage or ((shared or common) near memory)) with availab $ 6) and @ ad < 20021217	PGPB	136	OR	YES		06-02-2020
(((((((G06F9/542))))) (((((G06F9/545))))) (((((G06F9/546))))) (((((H04L43/10))))) (((((H04L67/10))))) (((((B60R16/0231)))))).cpc. and (bb or bulletin adj board or storage or ((shared or common) near memory)) with availab $ 6 and @ ad < 20021217) and (motor or vehicle or automobile or automotive or ecu)	PGPB	17	OR	YES		06-02-2020
(((((((G06F9/542))))) (((((G06F9/545))))) (((((G06F9/546))))) (((((H04L43/10))))) (((((H04L67/10))))) (((((B60R16/0231)))))).cpc.) and (request $ 3 or messag $ 3 or (shared or common) near memory) with (storing or sav $ 3)	PGPB	6431	OR	YES		06-02-2020
(((((((G06F9/542))))) (((((G06F9/545))))) (((((G06F9/546))))) (((((H04L43/10))))) (((((H04L67/10))))) (((((B60R16/0231)))))).cpc. and (request $ 3 or messag $ 3 or (shared or common) near memory) with (storing or sav $ 3)) and (motor or vehicle or automobile or automotive or ecu)	PGPB	1247	OR	YES		06-02-2020
(((((((G06F9/542))))) (((((G06F9/545))))) (((((G06F9/546))))) (((((H04L43/10))))) (((((H04L67/10))))) (((((B60R16/0231)))))).cpc.) and (bb or bulletin adj board or storage) with availab $ 6	PGPB	4784	OR	YES		06-02-2020
(((((((G06F9/542))))) (((((G06F9/545))))) (((((G06F9/546))))) (((((H04L43/10))))) (((((H04L67/10))))) (((((B60R16/0231)))))).cpc. and (bb or bulletin adj board or storage) with availab $ 6) and (motor or vehicle or automobile or automotive or ecu)	PGPB	1332	OR	YES		06-02-2020
(((((((G06F9/542))))) (((((G06F9/545))))) (((((G06F9/546))))) (((((H04L43/10))))) (((((H04L67/10))))) (((((B60R16/0231)))))).cpc. and (bb or bulletin adj board or storage) with availab $	PGPB	17	OR	YES		06-02-2020

6 and (motor or vehicle or automobile or automotive or ecu)) and @ ad < 20021217						

Prior Art Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
10248477.PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6	OR	YES		06-02-2020
10031790.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		06-02-2020
10002036.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		06-02-2020
9575817.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		06-02-2020
8566843.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		06-02-2020
8209705.pn.	PGPB, USPT, USOC, EPAB,	3	OR	YES		06-02-2020

	JPAB, DWPI, TDBD					
7802263.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		06-02-2020
10031790.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		06-02-2020
100020360.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		06-02-2020
10020360.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	7	OR	YES		06-02-2020
100020360.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		06-02-2020
10002036.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		06-02-2020
9575817.pn.		2	OR	YES		06-02-2020

	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
8566843.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		06-02-2020
8209705.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3	OR	YES		06-02-2020
7802263.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		06-02-2020
"FUCHS-AXEL"!	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	59	OR	YES		06-02-2020
"FUCHS-AXEL"!	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	59	OR	YES		06-02-2020
"ANDREWS-SCOTT-STURGES"!	PGPB, USPT, USOC, EPAB,	24	OR	YES		06-02-2020

	JPAB, DWPI, TDBD					
((((((G06F9/542)))))) ((((((G06F9/545)))))) ((((((G06F9/546)))))) ((((((H04L43/10)))))) ((((((H04L67/10)))))) ((((((B60R16/0231)))))).cpc.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	83160	OR	YES		06-02-2020
((request or message or query) and (storage near availab$6)).ab, ti.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	789	OR	YES		06-02-2020
(bulletin near board or "bb") and (((request or message or query) and (storage near availab$6)).ab, ti.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	74	OR	YES		06-02-2020
((bulletin near board or "bb") and ((request or message or query) and (storage near availab$6)).ab, ti.) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		06-02-2020
(bulletin near board or "bb").ab, ti.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	36667	OR	YES		06-02-2020
(bb or bulletin adj board or storage) with availab$6	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	390479	OR	YES		06-02-2020
		396	OR	YES		06-02-2020

((bulletin near board or "bb").ab, ti.) and ((bb or bulletin adj board or storage) with availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
((bulletin near board or "bb").ab, ti. and (bb or bulletin adj board or storage) with availab$6) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	112	OR	YES		06-02-2020
(((((((G06F9/542))))) (((((G06F9/545))))) (((((G06F9/546))))) (((((H04L43/10))))) (((((H04L67/10))))) (((((B60R16/0231))))))).cpc.) and ((bulletin near board or "bb").ab, ti. and (bb or bulletin adj board or storage) with availab$6 and @ad<20021217)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		06-02-2020
((bb or bulletin adj board or storage) with availab$6) and (motor or vehicle or automobile or automotive or ecu)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	106581	OR	YES		06-02-2020
((bb or bulletin adj board or storage) with availab$6 and (motor or vehicle or automobile or automotive or ecu)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	16141	OR	YES		06-02-2020
(((request or message or query) and (storage near availab$6)).ab, ti.) and ((bb or bulletin adj board or storage) with availab$6 and (motor or vehicle or automobile or automotive or ecu) and @ad<20021217)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3	OR	YES		06-02-2020
((bb or bulletin adj board or storage) with availab$6 and (motor or vehicle or automobile or automotive or ecu) and @ad<20021217) and (((((((G06F9/542))))) (((((G06F9/545)))))	PGPB, USPT, USOC, EPAB,	63	OR	YES		06-02-2020

(((((G06F9/546))))) (((((H04L43/10))))) (((((H04L67/10))))) (((((B60R16/0231)))))).cpc.)	JPAB, DWPI, TDBD					
(shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	686	OR	YES		06-02-2020
((shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	217	OR	YES		06-02-2020
((shared or common) near memory with (timer or time$1out or watchdog) and @ad<20021217) and (request$3 or messag$3) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	41	OR	YES		06-02-2020
(request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	119	OR	YES		06-02-2020
((request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		06-02-2020
(direct adj memory adj access or dma) with (timer or time$1out)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6029	OR	YES		06-02-2020
		811	OR	YES		06-02-2020

((direct adj memory adj access or dma) with (timer or time$1out)) and (shared or common) near memory with (request$3 or memory or access$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
((direct adj memory adj access or dma) with (timer or time$1out) and (shared or common) near memory with (request$3 or memory or access$3)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	317	OR	YES		06-02-2020
((direct adj memory adj access or dma) with (timer or time$1out) and (shared or common) near memory with (request$3 or memory or access$3) and @ad<20021217) and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	74	OR	YES		06-02-2020
(shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	120	OR	YES		06-02-2020
((shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	27	OR	YES		06-02-2020
availab$7 with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	26812	OR	YES		06-02-2020
(availab$7 with (timer or time$1out or watchdog)) and (shared or common) near memory	PGPB, USPT, USOC, EPAB,	1321	OR	YES		06-02-2020

	JPAB, DWPI, TDBD					
(availab$7 with (timer or time$1out or watchdog) and (shared or common) near memory) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	371	OR	YES		06-02-2020
(availab$7 with (timer or time$1out or watchdog) and (shared or common) near memory and @ad<20021217) and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	116	OR	YES		06-02-2020
(request$3 or messag$3 or query$3) with (shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	18	OR	YES		06-02-2020
(request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	119	OR	YES		06-02-2020
((request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		06-02-2020
(shared or common) near memory with availab$6	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6457	OR	YES		06-02-2020
		595	OR	YES		06-02-2020

((shared or common) near memory with availab$6) and (motor or vehicle or automobile or automotive or ecu)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
((shared or common) near memory with availab$6 and (motor or vehicle or automobile or automotive or ecu)) and (((((((G06F9/542))))) (((((G06F9/545))))) (((((G06F9/546))))) (((((H04L43/10))))) (((((H04L67/10))))) (((((B60R16/0231)))))).cpc.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	25	OR	YES		06-02-2020
((shared or common) near memory with availab$6 and (motor or vehicle or automobile or automotive or ecu) and ((((((G06F9/542)))))) (((((G06F9/545))))) (((((G06F9/546))))) (((((H04L43/10))))) (((((H04L67/10))))) (((((B60R16/0231)))))).cpc.) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1	OR	YES		06-02-2020
((((((G06F9/542)))))) (((((G06F9/545))))) (((((G06F9/546))))) (((((H04L43/10))))) (((((H04L67/10))))) (((((B60R16/0231)))))).cpc.	PGPB	29484	OR	YES		06-02-2020
(bb or bulletin adj board or storage or((shared or common) near memory)) with availab$6	PGPB	189189	OR	YES		06-02-2020
(((((((G06F9/542))))) (((((G06F9/545))))) (((((G06F9/546))))) (((((H04L43/10))))) (((((H04L67/10))))) (((((B60R16/0231)))))).cpc.) and ((bb or bulletin adj board or storage or((shared or common) near memory)) with availab$6)	PGPB	4921	OR	YES		06-02-2020
(((((((G06F9/542))))) (((((G06F9/545))))) (((((G06F9/546))))) (((((H04L43/10))))) (((((H04L67/10))))) (((((B60R16/0231)))))).cpc. and (bb or bulletin adj board or storage or((shared or common) near memory)) with availab$6) and (motor or vehicle or automobile or automotive or ecu)	PGPB	1340	OR	YES		06-02-2020
(((((((G06F9/542))))) (((((G06F9/545))))) (((((G06F9/546))))) (((((H04L43/10))))) (((((H04L67/10))))) (((((B60R16/0231)))))).cpc. and (bb or bulletin adj board or storage or((shared or common) near memory)) with availab$6 and (motor or vehicle or automobile or automotive or ecu)) and @ad<20021217	PGPB	17	OR	YES		06-02-2020

(5941947 5230051 5388189 5513324 5737529 5923846 6128315 6185466 6430607 6438632 6941510 6363427 6725348 7950017 5265250 5666485).pn.	USPT	16	OR	YES		06-02-2020
20010018685 20020032856 20020191543 20020002586 20020047868 20030154116 20030236894 20030088568 20020198943 20020159460 20020188691 20030061388 20030074474 20040003087 20060155907 20060155867 20070101206 20100333096 20110047218 20110047310 20120029898 20130111299	PGPB	24	OR	YES		06-02-2020
20020073243	PGPB	1	OR	YES		06-02-2020
(7552410 5956489 6289390 6378001 6801942 6034970 7103045 7103646 7103656 5588002).pn.	USPT	10	OR	YES		06-02-2020
(6141710 6484082 7552440).pn.	USPT	3	OR	YES		06-02-2020
((5941947 5230051 5388189 5513324 5737529 5923846 6128315 6185466 6430607 6438632 6941510 6363427 6725348 7950017 5265250 5666485).pn.) or (20010018685 20020032856 20020191543 20020002586 20020047868 20030154116 20030236894 20030088568 20020198943 20020159460 20020188691 20030061388 20030074474 20040003087 20060155907 20060155867 20070101206 20100333096 20110047218 20110047310 20120029898 20130111299) or (20020073243) or ((7552410 5956489 6289390 6378001 6801942 6034970 7103045 7103646 7103656 5588002).pn.) or ((6141710 6484082 7552440).pn.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	54	OR	YES		06-02-2020
((5941947 5230051 5388189 5513324 5737529 5923846 6128315 6185466 6430607 6438632 6941510 6363427 6725348 7950017 5265250 5666485).pn. or 20010018685 20020032856 20020191543 20020002586 20020047868 20030154116 20030236894 20030088568 20020198943 20020159460 20020188691 20030061388 20030074474 20040003087 20060155907 20060155867 20070101206 20100333096 20110047218 20110047310 20120029898 20130111299 or 20020073243 or (7552410 5956489 6289390 6378001 6801942 6034970 7103045 7103646 7103656 5588002).pn. or (6141710 6484082 7552440).pn.) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	43	OR	YES		06-02-2020
		686	OR	YES		06-02-2020

(shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
((shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	217	OR	YES		06-02-2020
((shared or common) near memory with (timer or time$1out or watchdog) and @ad<20021217) and (request$3 or messag$3) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	41	OR	YES		06-02-2020
(request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	119	OR	YES		06-02-2020
((request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		06-02-2020
(direct adj memory adj access or dma) with (timer or time$1out)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6029	OR	YES		06-02-2020
((direct adj memory adj access or dma) with (timer or time$1out)) and (shared or common) near memory with (request$3 or memory or access$3)	PGPB, USPT, USOC, EPAB,	811	OR	YES		06-02-2020

	JPAB, DWPI, TDBD					
((direct adj memory adj access or dma) with (timer or time$1out) and (shared or common) near memory with (request$3 or memory or access$3)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	317	OR	YES		06-02-2020
((direct adj memory adj access or dma) with (timer or time$1out) and (shared or common) near memory with (request$3 or memory or access$3) and @ad<20021217) and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	74	OR	YES		06-02-2020
(shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	120	OR	YES		06-02-2020
((shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	27	OR	YES		06-02-2020
availab$7 with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	26812	OR	YES		06-02-2020
(availab$7 with (timer or time$1out or watchdog)) and (shared or common) near memory	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1321	OR	YES		06-02-2020
		371	OR	YES		06-02-2020

(availab$7 with (timer or time$1out or watchdog) and (shared or common) near memory) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
(availab$7 with (timer or time$1out or watchdog) and (shared or common) near memory and @ad<20021217) and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	116	OR	YES		06-02-2020
(request$3 or messag$3 or query$3) with (shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	18	OR	YES		06-02-2020
(request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	119	OR	YES		06-02-2020
((request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		06-02-2020

Bibliographic Data

Application No: 16/042,159

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /CHARLES E ANYA/ (Examiner's Signature) (Initials)

Title: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
07/23/2018	719	2194	SVIPGP061H
RULE			

APPLICANTS

Stragent, LLC, Longview, TX,

INVENTORS

Axel Fuchs San Jose, CA, UNITED STATES

Scott Sturges Andrews Petaluma, CA, UNITED STATES

CONTINUING DATA

This application is a CON of 15919201 03/12/2018 PAT 10031790

15919201 is a CON of 15405110 01/12/2017 PAT 10002036

15405110 is a CON of 14011705 08/27/2013 PAT 9575817

14011705 is a CON of 13531319 06/22/2012 PAT 8566843

13531319 is a CON of 12182570 07/30/2008 PAT 8209705

12182570 is a CON of 10737690 12/15/2003 PAT 7802263

10737690 has PRO of 60434018 12/17/2002

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

08/29/2018

STATE OR COUNTRY

UNITED STATES

ADDRESS

The Caldwell Firm, LLC

PO Box 59655

Dept. SVIPGP

Dallas, TX 75229

UNITED STATES

FILING FEE RECEIVED

$1,720

Doc Code: DIST.E.FILE Document Description: Electronic Terminal Disclaimer - Filed	PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce

Electronic Petition Request	**TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT**
Application Number	16042159
Filing Date	23-Jul-2018
First Named Inventor	Axel Fuchs
Attorney Docket Number	SVIPGP061H
Title of Invention	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK

☒ 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
Stragent, LLC	100%

The owner(s) with 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)

8566843

10002036

10248477

10031790

9575817

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.

In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:
- 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) is included with Electronic Terminal Disclaimer request.

◉ I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

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

Registration Number 44580

○ A sole inventor

○ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application

○ A joint inventor; all of whom are signing this request

Signature	/Patrick Caldwell/
Name	Patrick Caldwell

*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.

Doc Code: DISQ.E.FILE
Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 16042159

Filing Date: 23-Jul-2018

Applicant/Patent under Reexamination: Fuchs

Electronic Terminal Disclaimer filed on June 8, 2020

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt	
EFS ID:	39661892
Application Number:	16042159
International Application Number:	
Confirmation Number:	9106
Title of Invention:	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK
First Named Inventor/Applicant Name:	Axel Fuchs
Customer Number:	92045
Filer:	Patrick Edgar Caldwell
Filer Authorized By:	
Attorney Docket Number:	SVIPGP061H
Receipt Date:	08-JUN-2020
Filing Date:	23-JUL-2018
Time Stamp:	23:32:10
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	33410 c2b86f45d968a7252aec7ed28e61485d110de80a	no	2
Warnings:					

Information:	
Total Files Size (in bytes):	33410

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

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/042,159	07/23/2018	Axel Fuchs	SVIPGP061H

CONFIRMATION NO. 9106

112117
Thomas D. Fortenberry, Attorney at Law
P.O. Box 2099
Woodville, TX 75979

POWER OF ATTORNEY NOTICE

OC000000117280195

Date Mailed: 06/01/2020

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/26/2020.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/hsarwari/

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/042,159	07/23/2018	Axel Fuchs	SVIPGP061H

CONFIRMATION NO. 9106

92045
The Caldwell Firm, LLC
PO Box 59655
Dept. SVIPGP
Dallas, TX 75229

POA ACCEPTANCE LETTER

OC000000117280247

Date Mailed: 06/01/2020

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/26/2020.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/hsarwari/

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
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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	16/042,159
Filing Date	2018-07-23
First Named Inventor	Axel Fuchs
Title	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK
Art Unit	2194
Examiner Name	Charles E ANYA
Attorney Docket Number	SVIPGP061H

SIGNATURE of Applicant or Patent Practitioner

Signature	/Patrick Caldwell/	Date (Optional)	2020-05-26
Name	Patrick Caldwell	Registration Number	44580
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 _____ 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

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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: 92045

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):

Stragent LLC

☐ 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	/Andrew Gordon/	Date (Optional)	2020-05-26
Name	Andrew Gordon		
Title	Exec VP		

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 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:	39543304
Application Number:	16042159
International Application Number:	
Confirmation Number:	9106
Title of Invention:	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK
First Named Inventor/Applicant Name:	Axel Fuchs
Customer Number:	112117
Filer:	Patrick Edgar Caldwell
Filer Authorized By:	
Attorney Docket Number:	SVIPGP061H
Receipt Date:	26-MAY-2020
Filing Date:	23-JUL-2018
Time Stamp:	22:11:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	SVIPGP061H_POA_vF_26-May-2020.pdf	117710 ab813552efb7cf40d10273dd7fbed9c199f7befc	no	2

Warnings:

Information:	
Total Files Size (in bytes):	117710

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

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Patent Application Fee Transmittal					
Application Number:	16042159				
Filing Date:	23-Jul-2018				
Title of Invention:	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK				
First Named Inventor/Applicant Name:	Axel Fuchs				
Filer:	Patrick Edgar Caldwell				
Attorney Docket Number:	SVIPGP061H				
Filed as Large Entity					
Filing Fees for **Utility under 35 USC 111(a)**					
Description		**Fee Code**	**Quantity**	**Amount**	**Sub-Total in USD($)**
Basic Filing:					
Pages:					
Claims:					
Miscellaneous-Filing:					
Petition:					
Patent-Appeals-and-Interference:					
Post-Allowance-and-Post-Issuance:					
Extension-of-Time:					

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension - 2 months with $0 paid	1252	1	600	600
Miscellaneous:				
STATUTORY OR TERMINAL DISCLAIMER	1814	1	160	160
		Total in USD ($)		**760**

Electronic Acknowledgement Receipt	
EFS ID:	39528335
Application Number:	16042159
International Application Number:	
Confirmation Number:	9106
Title of Invention:	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK
First Named Inventor/Applicant Name:	Axel Fuchs
Customer Number:	112117
Filer:	Patrick Edgar Caldwell
Filer Authorized By:	
Attorney Docket Number:	SVIPGP061H
Receipt Date:	25-MAY-2020
Filing Date:	23-JUL-2018
Time Stamp:	23:13:29
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$760
RAM confirmation Number	E20205ON13494630
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	Amendment/Req. Reconsideration-After Non-Final Reject	SVIPGP061H_OfficeAction_vF_25-May-2020.pdf	60976 0c39044c0fd4debdfb0604da906e5345076edb42	no	3
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	32880 54b8d0b34316d958d7a1c9c4e9f8d07b0f2872b4	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	93856		

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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 a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Axel Fuchs Application No.: 16/042,159 File Date: 2018-07-23 Title: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK	Confirmation No.: 9106 Examiner: Charles E ANYA Art Unit: 2194 Docket No.: SVIPGP061H Date: May 25, 2020

AMENDMENT A

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

Examiner:

In response to the communication mailed 2019-12-23 (hereafter "Non Final Office Action" or "NFOA"), please consider the following amendments believed to place the claims in condition for allowance.

— **Remarks/Arguments** begin on page 2 of this paper.

Remarks:

Summary

Claims 1-20 were pending. No claim amendments are submitted with this response.

Rejections based on Double Patenting

The Examiner has rejected each of the claims on the grounds of non-statutory obviousness-type double patenting as being unpatentable over Patent Nos. 10031790, 10248477, 10002036, 95757817, and 8566843. Applicant asserts that such rejection is overcome in view of the filing of the terminal disclaimer submitted herewith.

Conclusion

It is believed that all of the pending issues have been addressed. Claims 1-20 are in condition for allowance per the claim amendments herein.

However, the absence of a reply to a specific rejection, issue, or comment does not signify agreement with or concession of that rejection, issue, or comment. In addition, because the arguments made above may not be exhaustive, there may be reasons for patentability of any or all pending claims (or other claims) that have not been expressed. Still yet, nothing in this reply should be construed as intention to concede any issue with regard to any claim, except as specifically stated in this reply. Finally, it should be noted that no claims are intended to be construed under 35 U.S.C. 112, paragraph 6.

In the event a telephone conversation would expedite the prosecution of this application, the Examiner may reach the undersigned as indicated below. Applicant hereby requests an extension of time to respond and encloses the appropriate fee. Applicant does not believe that any additional fees are due. However, in the event that any other fees are due, the Director is

hereby authorized to charge any required fees due (other than issue fees), and to credit any overpayment made, in connection with the filing of this paper to Deposit Account No. 50-4964 (Order No. SVIPGP061H).

Respectfully submitted,



Dated: 25 May 2020

Patrick E. Caldwell, Esq.
Reg. No. 44,580

The Caldwell Firm, LLC
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Telephone: (214) 734-2313
pcaldwell@thecaldwellfirm.com

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Thomas D. Fortenberry, Attorney at Law
P.O. Box 2099
Woodville, TX 75979

Courtesy Reminder for
Application Serial No: 16/042,159

Attorney Docket No: SVIPGP061H
Customer Number: 112117
Date of Electronic Notification: 12/23/2019

This is a courtesy reminder that new correspondence is available for this application. If you have not done so already, please review the correspondence. The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

An email notification regarding the correspondence was sent to the following email address(es) associated with your customer number:
tom@tflawoffices.com
eofficeaction@appcoll.com

To view your correspondence online or update your email addresses, please visit us anytime at **https://ppair-my.uspto.gov/pair/PrivatePair.**
If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov or call 1-866-217-9197.

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/042,159	07/23/2018	Axel Fuchs	SVIPGP061H	9106

112117 7590 12/23/2019

Thomas D. Fortenberry, Attorney at Law
P.O. Box 2099
Woodville, TX 75979

EXAMINER	
ANYA, CHARLES E	

ART UNIT	PAPER NUMBER
2194	

NOTIFICATION DATE	DELIVERY MODE
12/23/2019	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):

eofficeaction@appcoll.com
tom@tflawoffices.com

Office Action Summary	**Application No.** 16/042,159	**Applicant(s)** Fuchs et al.	
	Examiner CHARLES E ANYA	**Art Unit** 2194	**AIA (FITF) Status** No

-- 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 07/30/18.

☐ 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) 1-20 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) 1-20 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 allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 07/30/18 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

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

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

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

4) ☐ Other: _____.

DETAILED ACTION

1. Claims 1-20 are pending in this application.

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ

761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§ 706.02(l)(1) - 706.02(l)(3) for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon

submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

2. Claims 1, 8 and 14 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1, 15 and 26 respectively of U.S. Patent No. 10,031,790 B1 issued to Fuchs et al. Although the claims at issue are not identical, they are not patentably distinct from each other because all claim limitations of the instant application are present in the 10,031,790 B1 patent.

Instant Application No: 16/042,159	**U.S. Pat. No: 10,031,790 B1**
Claim 1: A system, comprising: an automotive electronic control unit configured for: receiving information associated with a message; issuing a storage resource request in connection with a storage resource and determining	Claim 1: An apparatus, comprising: an automotive electronic control unit including a non-transitory memory storage comprising instructions, and at least one hardware processor in hardwired communication with the memory storage, wherein the at least one

whether the storage resource is available; determining whether a threshold has been reached in association with the storage resource request; when the storage resource is not available and the threshold associated with the storage resource request has not been reached, issuing another storage resource request in connection with the storage resource; when the storage resource is not available and the threshold associated with the storage resource request has been reached, sending a notification; and when the storage resource is available, storing the information utilizing the storage resource;	hardware processor executes the instructions to: identify information associated with a message received utilizing a Flexray network protocol associated with a Flexray network that is a physical network; in response to the identification of the information, issue a storage resource request in connection with a storage resource of the automotive electronic control unit and determine whether the storage resource is available for storing the information, where the storage resource is configured to store the information that is received utilizing the Flexray network for the purpose of sharing the information utilizing a Controller Area Network that is another physical network;

wherein the automotive electronic control unit is operable such that the information is capable of being shared in less than one second, and the automotive electronic control unit includes a plurality of interfaces including: a first interface; and a second interface for interfacing with a network, the second interface including a second interface-related data link layer component for using network-related data link layer header bits and a second interface-related network layer component for using network-related network layer header bits, where the network is at least one of a Controller Area	determine whether a threshold has been reached in association with the storage resource request; in the event the storage resource is not available and the threshold associated with the storage resource request has not been reached, issue another storage resource request in connection with the storage resource; in the event the storage resource is not available and the threshold associated with the storage resource request has been reached, send a notification; in the event the storage resource is available, store the information utilizing the storage resource; and share the information utilizing a Controller Area Network protocol

Network, a Flexray network, or a Local Interconnect Network.	associated with the Controller Area Network, the automotive electronic control unit remaining in hardwired communication with the Flexray network and the Controller Area Network, and including: a first interface for interfacing with the Flexray network, the first interface including a first interface-related data link layer component that uses Flexray network-related data link layer header bits and a first interface-related network layer component that uses Flexray network-related network layer header bits; and a second interface for interfacing with the Controller Area Network, the second interface including a second interface-related data link layer component that uses

	Controller Area Network-related data link layer header bits and a second interface-related network layer component that uses Controller Area Network-related network layer header bits; wherein the automotive electronic control unit is configured such that: the second interface-related network layer component uses the Controller Area Network-related network layer header bits by adding the Controller Area Network-related network layer header bits to a data unit including the information, and then the second interface-related data link layer component uses the Controller Area Network-related data link layer header bits by adding the Controller Area

	Network-related data link layer header bits to the data unit, before communicating the data unit on a physical link of the Controller Area Network; the first interface-related data link layer component uses the Flexray network-related data link layer header bits by removing the Flexray network-related data link layer header bits from another data unit, and the first interface-related network layer component uses the Flexray network-related network layer header bits by removing the Flexray network-related network layer header bits from the another data unit, where the information is extracted from the another data unit before the sharing; and a duration between the information being

	received at the automotive electronic control unit, and the sharing being completed by arriving at a destination, is less than one millisecond.
Claim 8: An apparatus, comprising: an automotive electronic control unit configured for: identifying information associated with a message received utilizing a first network protocol associated with a first network; issuing a storage resource request in connection with a storage resource and determining whether the storage resource is available; determining whether a threshold has been reached in	Claim 15: An apparatus, comprising: an automotive electronic control unit including a non-transitory memory storage comprising instructions, and at least one hardware processor in hardwired communication with the memory storage, wherein the at least one hardware processor executes the instructions to: identify information associated with a message received utilizing a Controller Area

association with the storage resource request; in the event the storage resource is not available and the threshold associated with the storage resource request has not been reached, issuing another storage resource request in connection with the storage resource; in the event the storage resource is not available and the threshold associated with the storage resource request has been reached, sending a notification; and in the event the storage resource is available, storing the information utilizing the storage resource; wherein the apparatus is operable such that the information is capable of being shared in less than one second utilizing a second network	Network protocol associated with a Controller Area Network that is a physical network; in response to the identification of the information, issue a storage resource request in connection with a storage resource of the automotive electronic control unit and determine whether the storage resource is available for storing the information, where the storage resource is configured to store the information that is received utilizing the Controller Area Network for the purpose of sharing the information utilizing a Flexray network that is another physical network; determine whether a threshold has been reached in association with the storage resource request; in the

protocol associated with a second network, and the automotive electronic control unit remains in hardwired communication with the first network and the second network and includes: a first interface for interfacing with the first network, the first interface including a first interface-related data link layer component for using first network-related data link layer header bits and a first interface-related network layer component for using first network- related network layer header bits, where the first network is at least one of a Controller Area Network type, a Flexray network type, or a Local Interconnect Network type; and a second interface for interfacing with	event the storage resource is not available and the threshold associated with the storage resource request has not been reached, issue another storage resource request in connection with the storage resource; in the event the storage resource is not available and the threshold associated with the storage resource request has been reached, send a notification; in the event the storage resource is available, store the information utilizing the storage resource; and share the information utilizing a Flexray network protocol associated with the Flexray network; wherein the automotive electronic control unit is in

the second network, the second interface including a second interface-related data link layer component for using second network-related data link layer header bits and a second interface-related network layer component for using second network-related network layer header bits, where the second network is at least one of the Controller Area Network type, the Flexray network type, or the Local Interconnect Network type.	hardwired communication with the Controller Area Network and the Flexray network and includes: a first interface in hardwired communication with the Controller Area Network, the first interface including a first interface-related data link layer component that uses Controller Area Network-related data link layer header bits and a first interface-related network layer component that uses Controller Area Network-related network layer header bits; and a second interface in hardwired communication with the Flexray network, the second interface including a second interface-related data link layer component that uses Flexray network-related data link layer

	header bits and a second interface-related network layer component that uses Flexray network-related network layer header bits; wherein the automotive electronic control unit is configured such that: the second interface-related network layer component uses the Flexray network-related network layer header bits by adding the Flexray network-related network layer header bits to a data unit including the information, and then the second interface-related data link layer component uses the Flexray network-related data link layer header bits by adding the Flexray network-related data link layer header bits to the data unit, before communicating the data unit on a

	physical link of the Flexray network; the first interface-related data link layer component uses the Controller Area Network-related data link layer header bits by removing the Controller Area Network-related data link layer header bits from another data unit, and the first interface-related network layer component uses the Controller Area Network-related network layer header bits by removing the Controller Area Network-related network layer header bits from the another data unit, where the information is extracted from the another data unit before the sharing; and a duration between the information being received at the automotive

	electronic control unit, and the sharing being initiated at the automotive electronic control unit, is less than one microsecond.
Claim 14: A non-transitory computer-readable medium storing a computer program product for sharing information, the computer program product comprising: code for receiving information associated with a message received utilizing a first network protocol associated with a first network; code for issuing a storage resource request in connection with a storage resource for determining whether the storage resource is available; code for determining whether a threshold	Claim 15: An apparatus, comprising: an automotive electronic control unit including a non-transitory memory storage comprising instructions, and at least one hardware processor in hardwired communication with the memory storage, wherein the at least one hardware processor executes the instructions to: identify information associated with a message received utilizing a Controller Area Network protocol associated with a Controller Area Network that is a

has been reached in association with the determination whether the storage resource is available; code for, when the storage resource is not available and the threshold associated with the determination whether the storage resource is available has not been reached, issuing another storage resource request in connection with the storage resource; code for, when the storage resource is not available and the threshold associated with determination whether the storage resource is available has been reached, sending a notification; and code for, when the storage resource is available, storing the information utilizing the storage resource;	physical network; in response to the identification of the information, issue a storage resource request in connection with a storage resource of the automotive electronic control unit and determine whether the storage resource is available for storing the information, where the storage resource is configured to store the information that is received utilizing the Controller Area Network for the purpose of sharing the information utilizing a Flexray network that is another physical network; determine whether a threshold has been reached in association with the storage resource request; in the event the storage resource is not available and the threshold

wherein the computer program product is operable such that the information is capable of being shared in less than one second utilizing an automotive electronic control unit that remains in hardwired communication with the first network and a second network, and that includes a plurality of interfaces including: a first interface for interfacing with the first network, the first interface including a first interface-related data link layer component for using first network-related data link layer header bits and a first interface- related network layer component for using first network-related network layer header bits, where the first network is at least one of a Controller Area	associated with the storage resource request has not been reached, issue another storage resource request in connection with the storage resource; in the event the storage resource is not available and the threshold associated with the storage resource request has been reached, send a notification; in the event the storage resource is available, store the information utilizing the storage resource; and share the information utilizing a Flexray network protocol associated with the Flexray network; wherein the automotive electronic control unit is in hardwired communication with the Controller Area Network and the

Network, a Flexray network, or a Local Interconnect Network; and a second interface, the second interface including a second interface- related data link layer component for using second network-related data link layer header bits.	Flexray network and includes: a first interface in hardwired communication with the Controller Area Network, the first interface including a first interface-related data link layer component that uses Controller Area Network-related data link layer header bits and a first interface-related network layer component that uses Controller Area Network-related network layer header bits; and a second interface in hardwired communication with the Flexray network, the second interface including a second interface-related data link layer component that uses Flexray network-related data link layer header bits and a second interface-related network layer component

	that uses Flexray network-related network layer header bits; wherein the automotive electronic control unit is configured such that: the second interface-related network layer component uses the Flexray network-related network layer header bits by adding the Flexray network-related network layer header bits to a data unit including the information, and then the second interface-related data link layer component uses the Flexray network-related data link layer header bits by adding the Flexray network-related data link layer header bits to the data unit, before communicating the data unit on a physical link of the Flexray network; the first interface-related data link

	layer component uses the Controller Area Network-related data link layer header bits by removing the Controller Area Network-related data link layer header bits from another data unit, and the first interface-related network layer component uses the Controller Area Network-related network layer header bits by removing the Controller Area Network-related network layer header bits from the another data unit, where the information is extracted from the another data unit before the sharing; and a duration between the information being received at the automotive electronic control unit, and the sharing being initiated at the

	automotive electronic control unit, is less than one microsecond.
Claim 14: A non-transitory computer-readable medium storing a computer program product for sharing information, the computer program product comprising: code for receiving information associated with a message received utilizing a first network protocol associated with a first network; code for issuing a storage resource request in connection with a storage resource for determining whether the storage resource is available; code for determining whether a threshold has been reached in association	Claim 26: A system, comprising: a vehicle; and an automotive electronic control unit installed in the vehicle, the automotive electronic control unit including a non-transitory memory storage comprising instructions, and at least one hardware processor in hardwired communication with the memory storage, wherein the at least one hardware processor executes the instructions to: identify information associated with a message received utilizing a Flexray network protocol associated with a Flexray network that is a physical network;

with the determination whether the storage resource is available; code for, when the storage resource is not available and the threshold associated with the determination whether the storage resource is available has not been reached, issuing another storage resource request in connection with the storage resource; code for, when the storage resource is not available and the threshold associated with determination whether the storage resource is available has been reached, sending a notification; and code for, when the storage resource is available, storing the information utilizing the storage resource; wherein the computer program	in response to the identification of the information, issue a storage resource request in connection with a storage resource of the automotive electronic control unit and determine whether the storage resource is available for storing the information, where the storage resource is configured to store the information that is received utilizing the Flexray network for the purpose of sharing the information utilizing a Controller Area Network that is another physical network; determine whether a threshold has been reached in association with the storage resource request; in the event the storage resource is not available and the threshold associated with the storage

product is operable such that the information is capable of being shared in less than one second utilizing an automotive electronic control unit that remains in hardwired communication with the first network and a second network, and that includes a plurality of interfaces including: a first interface for interfacing with the first network, the first interface including a first interface-related data link layer component for using first network-related data link layer header bits and a first interface- related network layer component for using first network-related network layer header bits, where the first network is at least one of a Controller Area Network, a Flexray network, or a	resource request has not been reached, issue another storage resource request in connection with the storage resource; in the event the storage resource is not available and the threshold associated with the storage resource request has been reached, send a notification; in the event the storage resource is available, store the information utilizing the storage resource; and share the information utilizing a Controller Area Network protocol associated with the Controller Area Network, the automotive electronic control unit remaining in hardwired communication with the Flexray network and the Controller Area Network, and including: a first

Local Interconnect Network; and a second interface, the second interface including a second interface- related data link layer component for using second network-related data link layer header bits.	interface for interfacing with the Flexray network, the first interface including a first interface-related data link layer component that uses Flexray network-related data link layer header bits and a first interface-related network layer component that uses Flexray network-related network layer header bits; and a second interface for interfacing with the Controller Area Network, the second interface including a second interface-related data link layer component that uses Controller Area Network-related data link layer header bits and a second interface-related network layer component that uses Controller Area Network-related network layer header bits; wherein

	the automotive electronic control unit is configured such that: the second interface-related network layer component uses the Controller Area Network-related network layer header bits by adding the Controller Area Network-related network layer header bits to a data unit including the information, and then the second interface-related data link layer component uses the Controller Area Network-related data link layer header bits by adding the Controller Area Network-related data link layer header bits to the data unit, before communicating the data unit on a physical link of the Controller Area Network; the first interface-related data link layer component uses the

	Flexray network-related data link layer header bits by removing the Flexray network-related data link layer header bits from another data unit, and the first interface-related network layer component uses the Flexray network-related network layer header bits by removing the Flexray network-related network layer header bits from the another data unit, where the information is extracted from the another data unit before the sharing; the storage resource is not a buffer and the information is shared without multiplexing; a duration between the information being received at the automotive electronic control unit, and the sharing being initiated at the automotive electronic control

	unit, is less than one millisecond; and other information is shared utilizing a Local Interconnect Network protocol associated with a Local Interconnect Network, and the automotive electronic control unit remains in hardwired communication with the Local Interconnect Network via a third interface for interfacing with the Local Interconnect Network, the third interface including a third interface-related data link layer component that uses Local Interconnect Network-related data link layer header bits; where a duration between the other information being received at the automotive electronic control unit, and the sharing being initiated at

	the automotive electronic control unit utilizing the Local Interconnect Network protocol associated with the Local Interconnect Network, is less than one millisecond.

3. Claim 8 is rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1 and 12 of U.S. Patent No. 10,248,477 B2 issued to Fuchs et al. Although the claims at issue are not identical, they are not patentably distinct from each other because all claim limitations of the instant application are present in the 10,248,477 B2 patent.

Instant Application: 16/042,159	**U.S. Pat. No. 10,248,477 B2**
Claim 8: An apparatus, comprising: an automotive electronic control unit configured for: identifying	Claim 1: A layered system for sharing information in an automobile vehicle, said system comprising: an

information associated with a message received utilizing a first network protocol associated with a first network; issuing a storage resource request in connection with a storage resource and determining whether the storage resource is available; determining whether a threshold has been reached in association with the storage resource request; in the event the storage resource is not available and the threshold associated with the storage resource request has not been reached, issuing another storage resource request in connection with the storage resource; in the event the storage resource is not available and the threshold associated with the	automotive electronic control unit comprising a micro-processor and an operating system; a hardware abstraction layer within the electronic control unit allowing the operating system to be adapted to a specific hardware implementation as used in the electronic control unit; non-volatile memory comprising a database with a data structure; a memory manager associated with the non-volatile memory, said memory manager comprising an upgrade and configuration manager to configure the data structure of the non-volatile memory, an event manager to capture input-output events as variables and generate new events, flags or signals, a data access

storage resource request has been reached, sending a notification; and in the event the storage resource is available, storing the information utilizing the storage resource; wherein the apparatus is operable such that the information is capable of being shared in less than one second utilizing a second network protocol associated with a second network, and the automotive electronic control unit remains in hardwired communication with the first network and the second network and includes: a first interface for interfacing with the first network, the first interface including a first interface-related data link layer component for using first network-related data link layer	manager to control code update and configuration of the memory and access rights for individual applications at execution, and a data integrity component to analyze stored state variables for integrity and generate events or flags if any problem occurs; the non-volatile memory further comprising instructions to: receive information in the form of a packet data unit representing datum information carried by an overall message from a first physical network selected from the group consisting of FlexRay, Controller Area Network, and Local Interconnect Network; in response to the receipt of the information, issue a storage resource request in connection with

header bits and a first interface-related network layer component for using first network- related network layer header bits, where the first network is at least one of a Controller Area Network type, a Flexray network type, or a Local Interconnect Network type; and a second interface for interfacing with the second network, the second interface including a second interface-related data link layer component for using second network-related data link layer header bits and a second interface-related network layer component for using second network-related network layer header bits, where the second network is at least one of the Controller Area Network type,	a storage resource; determine whether the storage resource is available for storing the information; determine whether a threshold has been reached in association with the storage resource request; in the event the storage resource is not available and the threshold associated with the storage resource request has not been reached, issue another storage resource request in connection with the storage resource; in the event the storage resource is available, store the information in the storage resource; and share the stored information with at least one of a plurality of heterogeneous processes including at least one process associated with a second

the Flexray network type, or the Local Interconnect Network type.	physical network selected from the group consisting of FlexRay, Controller Area Network, and Local Interconnect Network, utilizing a network protocol different from a protocol of the first physical network; interfaces for communication with each of FlexRay, Controller Area Network, and Local Interconnect Network networks, with each physical network in communication with a component including at least one of a sensor, an actuator, or a gateway, and with each of the FlexRay, Controller Area Network, and Local Interconnect Network interfaces comprising a corresponding network communication bus controller
Claim 8: An apparatus, comprising: an automotive electronic control unit	

configured for: identifying information associated with a message received utilizing a first network protocol associated with a first network; issuing a storage resource request in connection with a storage resource and determining whether the storage resource is available; determining whether a threshold has been reached in association with the storage resource request; in the event the storage resource is not available and the threshold associated with the storage resource request has not been reached, issuing another storage resource request in connection with the storage resource; in the event the storage resource is not available and the	including a corresponding network communication bus driver; the interfaces including a first communication interface for interfacing with the first physical network, the first communication interface including a first communication interface-related data link layer component, said first communication interface configured to extract variables from the overall message communicated by the first physical network employing a first protocol and storing the packet data unit representing the datum information carried by the overall message from a first physical network in the database; and a second communication interface for interfacing with the second physical

threshold associated with the storage resource request has been reached, sending a notification; and in the event the storage resource is available, storing the information utilizing the storage resource; wherein the apparatus is operable such that the information is capable of being shared in less than one second utilizing a second network protocol associated with a second network, and the automotive electronic control unit remains in hardwired communication with the first network and the second network and includes: a first interface for interfacing with the first network, the first interface including a first interface-related data link layer component for using first	network utilizing a protocol different than the protocol of the first physical network, the second communication interface including a second communication interface-related data link layer component; wherein the automotive electronic control unit is configured such that the stored information may be shared with the second physical network by replicating the packet unit data obtained from the first physical network by composing another message configured to be communicated using the different protocol of the second physical network. Claim 12: A layered system for sharing information in an automobile

network-related data link layer header bits and a first interface-related network layer component for using first network- related network layer header bits, where the first network is at least one of a Controller Area Network type, a Flexray network type, or a Local Interconnect Network type; and a second interface for interfacing with the second network, the second interface including a second interface-related data link layer component for using second network-related data link layer header bits and a second interface-related network layer component for using second network-related network layer header bits, where the second network is at least one	vehicle, said system comprising: an automotive electronic control unit comprising a micro-processor and an operating system; a hardware abstraction layer within the electronic control unit allowing the operating system to be adapted to a specific hardware implementation as used in the electronic control unit; non-volatile memory comprising a database with a data structure; a memory manager associated with the non-volatile memory, said memory manager comprising an upgrade and configuration manager to configure the data structure of the non-volatile memory, an event manager to capture input-output events as variables and generate new events,

of the Controller Area Network type, the Flexray network type, or the Local Interconnect Network type.	flags or signals, a data access manager to control code update and configuration of the memory and access rights for individual applications at execution, and a data integrity component to analyze stored state variables for integrity and generate events or flags if any problem occurs; the non-volatile memory further comprising instructions to: receive information in the form of a packet data unit representing datum information carried by an overall message from a first physical network selected from the group consisting of FlexRay, Controller Area Network, Local Interconnect Network and Media Oriented Systems Transport; in response to the receipt of the

	information, issue a storage resource request in connection with a storage resource; determine whether the storage resource is available for storing the information; determine whether a threshold has been reached in association with the storage resource request; in the event the storage resource is not available and the threshold associated with the storage resource request has not been reached, issue another storage resource request in connection with the storage resource; in the event the storage resource is available, store the information in the storage resource; and share the stored information with at least one of a plurality of heterogeneous

	processes including at least one process associated with a second physical network selected from the group consisting of FlexRay, Controller Area Network, Local Interconnect Network and Media Oriented Systems Transport, utilizing a network protocol different from a protocol of the first physical network; interfaces for communication with each of FlexRay, Controller Area Network, and Local Interconnect Network networks, with each physical network in communication with a component including at least one of a sensor, an actuator or a gateway, and with each of the FlexRay, Controller Area Network, Local Interconnect Network and Media

	Oriented Systems Transport interfaces comprising a corresponding network communication bus controller including a corresponding network communication bus driver; the interfaces including a first communication interface for interfacing with the first physical network, the first communication interface including a first communication interface-related data link layer component, said first communication interface configured to extract variables from the overall message communicated by the first physical network employing a first protocol and storing the packet data unit representing the datum information carried by the overall

	message from a first physical network in the database; and a second communication interface for interfacing with the second physical network utilizing a protocol different than the protocol of the first physical network, the second communication interface including a second communication interface-related data link layer component; wherein the automotive electronic control unit is configured such that the stored information may be shared with the second physical network by replicating the packet unit data obtained from the first physical network by composing another message configured to be communicated using the different

	protocol of the second physical network.

4. Claim 1 is rejected on the ground of nonstatutory double patenting as being unpatentable over claim 1 of U.S. Patent No. 10,002,036 B2 issued to Fuchs et al. Although the claims at issue are not identical, they are not patentably distinct from each other because all claim limitations of the instant application are present in the 10,002,036 B2 patent.

Instant Application No. 16/042,159	**U.S. Pat. No: 10,002,036 B2**
Claim 1: A system, comprising: an automotive electronic control unit configured for: receiving information associated with a message;	Claim 1: An apparatus, comprising: an automotive electronic control unit including a non-transitory memory storage comprising instructions, and at least one hardware processor in hardwired

issuing a storage resource request in connection with a storage resource and determining whether the storage resource is available; determining whether a threshold has been reached in association with the storage resource request; when the storage resource is not available and the threshold associated with the storage resource request has not been reached, issuing another storage resource request in connection with the storage resource; when the storage resource is not available and the threshold associated with the storage resource request has been reached, sending a notification; and	communication with the memory storage, wherein the at least one hardware processor executes the instructions to: identify information associated with a message received utilizing a Flexray network protocol associated with a Flexray network; issue a storage resource request in connection with a storage resource of the automotive electronic control unit and determine whether the storage resource is available for storing the information; determine whether a threshold has been reached in association with the storage resource request; in the event the storage resource is not available and the threshold associated with the storage resource request has

when the storage resource is available, storing the information utilizing the storage resource; wherein the automotive electronic control unit is operable such that the information is capable of being shared in less than one second, and the automotive electronic control unit includes a plurality of interfaces including: a first interface; and a second interface for interfacing with a network, the second interface including a second interface-related data link layer component for using network-related data link layer header bits and a second interface-related network layer component for using network-related network layer	not been reached, issue another storage resource request in connection with the storage resource; in the event the storage resource is not available and the threshold associated with the storage resource request has been reached, send a notification; in the event the storage resource is available, store the information utilizing the storage resource; and share the information in less than one millisecond utilizing a Controller Area Network protocol associated with a Controller Area Network, the automotive electronic control unit remaining in hardwired communication with the Flexray network and the Controller Area Network, and including: a first

header bits, where the network is at least one of a Controller Area Network, a Flexray network, or a Local Interconnect Network.	interface for interfacing with the Flexray network, the first interface including a first interface-related data link layer component that uses Flexray network-related data link layer header bits and a first interface-related network layer component that uses Flexray network-related network layer header bits; and a second interface for interfacing with the Controller Area Network, the second interface including a second interface-related data link layer component that uses Controller Area Network-related data link layer header bits and a second interface-related network layer component that uses Controller Area Network-related network layer header bits.

5. Claims 1 and 8 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 16, 8, 30 and 37 of U.S. Patent No. 9,575,817 B2issued to Fuchs et al. Although the claims at issue are not identical, they are not patentably distinct from each other because all claim limitations of the instant application are present in the 9,575,817 B2 patent.

Instant Application No. 16/042,159	**U.S. Pat. No: 9,575,817 B2**
Claim 1: A system, comprising: an automotive electronic control unit configured for: receiving information associated with a message; issuing a storage resource request in connection with a storage resource and determining	Claim 16: A non-transitory computer-readable medium storing a computer program product for sharing information, the computer program product comprising: code for receiving information associated with a message received utilizing a first network protocol associated

whether the storage resource is available; determining whether a threshold has been reached in association with the storage resource request; when the storage resource is not available and the threshold associated with the storage resource request has not been reached, issuing another storage resource request in connection with the storage resource; when the storage resource is not available and the threshold associated with the storage resource request has been reached, sending a notification; and when the storage resource is available, storing the information utilizing the storage resource;	with a first network; code for issuing a storage resource request in connection with a storage resource for determining whether the storage resource is available; code for determining whether a threshold has been reached in association with the determination whether the storage resource is available; code for, when the storage resource is not available and the threshold associated with the determination whether the storage resource is available has not been reached, issuing another storage resource request in connection with the storage resource; code for, when the storage resource is not available and the threshold associated with determination

wherein the automotive electronic control unit is operable such that the information is capable of being shared in less than one second, and the automotive electronic control unit includes a plurality of interfaces including: a first interface; and a second interface for interfacing with a network, the second interface including a second interface-related data link layer component for using network-related data link layer header bits and a second interface-related network layer component for using network-related network layer header bits, where the network is at least one of a Controller Area	whether the storage resource is available has been reached, sending a notification; and code for, when the storage resource is available, storing the information utilizing the storage resource; wherein the computer program product is operable such that the information is capable of being shared in less than one second utilizing an automotive electronic control unit that remains in hardwired communication with the first network and a second network, and that includes a plurality of interfaces including: a first interface for interfacing with the first network, the first interface including a first interface-related data link layer component for using a first network-

Network, a Flexray network, or a Local Interconnect Network.	related data link layer header and a first interface-related network layer component for using a first network-related network layer header, where the first network is at least one of a Controller Area Network, a Flexray network, or a Local Interconnect Network; and a second interface, the second interface including a second interface-related data link layer component for using a second network-related data link layer header.
Claim 8: An apparatus, comprising: an automotive electronic control unit configured for: identifying information associated with a	Claim 8: An apparatus, comprising: an automotive electronic control unit configured for: identifying information associated with a

message received utilizing a first network protocol associated with a first network; issuing a storage resource request in connection with a storage resource and determining whether the storage resource is available; determining whether a threshold has been reached in association with the storage resource request; in the event the storage resource is not available and the threshold associated with the storage resource request has not been reached, issuing another storage resource request in connection with the storage resource; in the event the storage resource is not available and the threshold associated with the storage resource request has been	message received utilizing a first network protocol associated with a first network; issuing a storage resource request in connection with a storage resource and determining whether the storage resource is available; determining whether a threshold has been reached in association with the storage resource request; in the event the storage resource is not available and the threshold associated with the storage resource request has not been reached, issuing another storage resource request in connection with the storage resource; in the event the storage resource is not available and the threshold associated with the storage resource request has been

reached, sending a notification; and in the event the storage resource is available, storing the information utilizing the storage resource; wherein the apparatus is operable such that the information is capable of being shared in less than one second utilizing a second network protocol associated with a second network, and the automotive electronic control unit remains in hardwired communication with the first network and the second network and includes: a first interface for interfacing with the first network, the first interface including a first interface-related data link layer component for using first network-related data link layer header bits and a first interface-	reached, sending a notification; and in the event the storage resource is available, storing the information utilizing the storage resource; wherein the apparatus is operable such that the information is capable of being shared in less than one second utilizing a second network protocol associated with a second network, and the automotive electronic control unit remains in hardwired communication with the first network and the second network and includes: a first interface for interfacing with the first network, the first interface including a first interface-related data link layer component for using a first interface-related data link layer header and a first interface-related

related network layer component for using first network- related network layer header bits, where the first network is at least one of a Controller Area Network type, a Flexray network type, or a Local Interconnect Network type; and a second interface for interfacing with the second network, the second interface including a second interface-related data link layer component for using second network-related data link layer header bits and a second interface-related network layer component for using second network-related network layer header bits, where the second network is at least one of the Controller Area Network type,	network layer component for using a first interface-related network layer header, where the first network is at least one of a Controller Area Network type, a Flexray network type, or a Local Interconnect Network type; and a second interface for interfacing with the second network, the second interface including a second interface-related data link layer component for using a second interface-related data link layer header and a second interface-related network layer component for using a second interface-related network layer header, where the second network is at least one of the Controller Area Network type,

the Flexray network type, or the Local Interconnect Network type.	the Flexray network type, or the Local Interconnect Network type.
Claim 1: A system, comprising: an automotive electronic control unit configured for: receiving information associated with a message; issuing a storage resource request in connection with a storage resource and determining whether the storage resource is available; determining whether a threshold has been reached in association with the storage resource request; when the storage resource is not available and the threshold associated with the storage	Claim 30: A system, comprising: an automotive electronic control unit configured for: receiving information associated with a message; issuing a storage resource request in connection with a storage resource and determining whether the storage resource is available; determining whether a threshold has been reached in association with the storage resource request; when the storage resource is not available and the threshold associated with the storage resource request has not been reached, issuing another storage

resource request has not been reached, issuing another storage resource request in connection with the storage resource; when the storage resource is not available and the threshold associated with the storage resource request has been reached, sending a notification; and when the storage resource is available, storing the information utilizing the storage resource; wherein the automotive electronic control unit is operable such that the information is capable of being shared in less than one second, and the automotive electronic control unit includes a plurality of interfaces including: a first interface; and	resource request in connection with the storage resource; when the storage resource is not available and the threshold associated with the storage resource request has been reached, sending a notification; and when the storage resource is available, storing the information utilizing the storage resource; wherein the automotive electronic control unit is operable such that the information is capable of being shared in less than one second, and the automotive electronic control unit includes a plurality of interfaces including: a first interface; and a second interface for interfacing with a network, the second interface including a second interface-related

a second interface for interfacing with a network, the second interface including a second interface-related data link layer component for using network-related data link layer header bits and a second interface-related network layer component for using network-related network layer header bits, where the network is at least one of a Controller Area Network, a Flexray network, or a Local Interconnect Network.	data link layer component for using a network-related data link layer header and a second interface-related network layer component for using a network-related network layer header, where the network is at least one of a Controller Area Network, a Flexray network, or a Local Interconnect Network.
Claim 1: A system, comprising: an automotive electronic control unit configured for: receiving information associated with a message;	Claim 37: An apparatus, comprising: an automotive electronic control unit configured for: identifying information associated with a message received utilizing a first

issuing a storage resource request in connection with a storage resource and determining whether the storage resource is available; determining whether a threshold has been reached in association with the storage resource request; when the storage resource is not available and the threshold associated with the storage resource request has not been reached, issuing another storage resource request in connection with the storage resource; when the storage resource is not available and the threshold associated with the storage resource request has been reached, sending a notification; and	network protocol associated with a first network; issuing a storage resource request in connection with a storage resource and determining whether the storage resource is available; determining whether a threshold has been reached in association with the storage resource request; in the event the storage resource is not available and the threshold associated with the storage resource request has not been reached, issuing another storage resource request in connection with the storage resource; in the event the storage resource is not available and the threshold associated with the storage resource request has been reached, sending a notification; and

when the storage resource is available, storing the information utilizing the storage resource; wherein the automotive electronic control unit is operable such that the information is capable of being shared in less than one second, and the automotive electronic control unit includes a plurality of interfaces including: a first interface; and a second interface for interfacing with a network, the second interface including a second interface-related data link layer component for using network-related data link layer header bits and a second interface-related network layer component for using network-related network layer	in the event the storage resource is available, storing the information utilizing the storage resource; wherein the apparatus is operable such that the information is capable of being shared in less than one second utilizing a second network protocol associated with a second network, and the automotive electronic control unit remains in hardwired communication with the first network and the second network and includes: a first interface for interfacing with the first network, the first interface including a first interface-related data link layer component for using a first network-related data link layer header and a first interface-related network layer component for using

header bits, where the network is at least one of a Controller Area Network, a Flexray network, or a Local Interconnect Network.	a first network-related network layer header, where the first network is at least one of a Controller Area Network type, a Flexray network type, or a Local Interconnect Network type; and a second interface for interfacing with the second network, the second interface including a second interface-related data link layer component for using a second network-related data link layer header and a second interface-related network layer component for using a second network-related network layer header, where the second network is at least one of the Controller Area Network type, the Flexray network type, or the Local Interconnect Network type.

6. Claim 1 is rejected on the ground of nonstatutory double patenting as being unpatentable over claim 48 of U.S. Patent No. 8,566,843 B2 issued to Fuchs et al. Although the claims at issue are not identical, they are not patentably distinct from each other because all claim limitations of the instant application are present in the 8,566,843 B2 patent.

Instant Application No. 16/042,159	**U.S. Pat. No: 8,566,843 B2**
Claim 1: A system, comprising: an automotive electronic control unit configured for:	Claim 48: A non-transitory computer-readable medium storing a computer program product for sharing information, the computer program

receiving information associated with a message; issuing a storage resource request in connection with a storage resource and determining whether the storage resource is available; determining whether a threshold has been reached in association with the storage resource request; when the storage resource is not available and the threshold associated with the storage resource request has not been reached, issuing another storage resource request in connection with the storage resource; when the storage resource is not available and the threshold associated with the storage	product comprising: code for receiving information associated with a message received utilizing a first network protocol associated with a first network; code for issuing a storage resource request in connection with a storage resource for determining whether the storage resource is available; code for determining whether a threshold has been reached in association with the determination whether the storage resource is available; code for, when the storage resource is not available and the threshold associated with the determination whether the storage resource is available has not been reached, issuing another storage resource request in connection with the

resource request has been reached, sending a notification; and when the storage resource is available, storing the information utilizing the storage resource; wherein the automotive electronic control unit is operable such that the information is capable of being shared in less than one second, and the automotive electronic control unit includes a plurality of interfaces including: a first interface; and a second interface for interfacing with a network, the second interface including a second interface-related data link layer component for using network-related data link layer header bits and a second interface-related	storage resource; code for, when the storage resource is not available and the threshold associated with determination whether the storage resource is available has been reached, sending a notification; and code for, when the storage resource is available, storing the information utilizing the storage resource; wherein the computer program product is operable such that the information is capable of being shared in real-time utilizing a control unit that includes a plurality of interfaces including: a first interface for interfacing with the first network, the first interface including a first interface-related first component for receiving first data

network layer component for using network-related network layer header bits, where the network is at least one of a Controller Area Network, a Flexray network, or a Local Interconnect Network.	units and a first interface-related second component, the computer program product being operable such that the first data units are processed after which processed first data units are provided, where the first network is at least one of a Controller Area Network, a Flexray network, or a Local Interconnect Network; and a second interface, the second interface including a second interface-related component for receiving second data units, the computer program product being operable such that the second data units are processed after which processed second data units are provided.

NOTE: claims 2-7, 9-13 and 15-20 are rejected for the same reason as the independent claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHARLES E ANYA whose telephone number is (571)272-3757. The examiner can normally be reached on Mon-Fir. 9-6pm.

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, Dennis Chow can be reached on 571-272-7767. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

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

/CHARLES E ANYA/
Primary Examiner, Art Unit 2194

Notice of References Cited	Application/Control No. 16/042,159	Applicant(s)/Patent Under Reexamination Fuchs et al.	
	Examiner CHARLES E ANYA	Art Unit 2194	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-5956489-A	09-1999	San Andres; Ramon J.	G06F11/1662	709/221
	B					
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

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.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	Art Unit
	CHARLES E ANYA	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
The group/subgroup search is limited by text search	12/18/2019	ca
Inventor Search	12/18/2019	ca
West (G06F9/542 G06F9/545 G06F9/546 H04L43/10 H04L67/10 B60R16/023)	12/18/2019	ca

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

/CHARLES E ANYA/ Primary Examiner, Art Unit 2194	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/042,159	Fuchs et al.
	Examiner	**Art Unit**
	CHARLES E ANYA	2194

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

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant						☐ CPA	☐ T.D.	☐ R.1.47		
CLAIM		**DATE**								
Final	Original	12/18/2019								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
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	13	✓								
	14	✓								
	15	✓								
	16	✓								
	17	✓								
	18	✓								
	19	✓								
	20	✓								

WEST Search History for Application 16042159

Creation Date: 2019121814:39

Interference Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
((G06F9/542) (G06F9/545) (G06F9/546) (H04L43/10) (H04L67/10) (B60R16/0231)).cpc.	PGPB	27362	OR	YES		12-18-2019
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Prior Art Searches

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10248477.PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6	OR	YES		12-18-2019
10031790.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		12-18-2019
10002036.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		12-18-2019
9575817.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		12-18-2019
8566843.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		12-18-2019
8209705.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3	OR	YES		12-18-2019

7802263.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		12-18-2019
10031790.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		12-18-2019
100020360.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		12-18-2019
10020360.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	7	OR	YES		12-18-2019
100020360.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		12-18-2019
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	JPAB, DWPI, TDBD					
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8209705.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3	OR	YES		12-18-2019
7802263.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		12-18-2019
"FUCHS-AXEL"!	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	58	OR	YES		12-18-2019
"FUCHS-AXEL"!	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	58	OR	YES		12-18-2019
"ANDREWS-SCOTT-STURGES"!	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	23	OR	YES		12-18-2019
		76531	OR	YES		12-18-2019

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	JPAB, DWPI, TDBD					
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		664	OR	YES		12-18-2019

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	JPAB, DWPI, TDBD					
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		371	OR	YES		12-18-2019

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	JPAB, DWPI, TDBD					
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(7552410 5956489 6289390 6378001 6801942 6034970 7103045 7103646 7103656 5588002).pn.	USPT	10	OR	YES		12-18-2019
(6141710 6484082 7552440).pn.	USPT	3	OR	YES		12-18-2019
((5941947 5230051 5388189 5513324 5737529 5923846 6128315 6185466 6430607 6438632 6941510 6363427 6725348 7950017 5265250 5666485).pn.) or (20010018685 20020032856 20020191543 20020002586 20020047868 20030154116 20030236894 20030088568 20020198943 20020159460 20020188691 20030061388 20030074474 20040003087 20060155907 20060155867 20070101206 20100333096 20110047218 20110047310 20120029898 20130111299) or (20020073243) or ((7552410 5956489 6289390 6378001 6801942 6034970 7103045 7103646 7103656 5588002).pn.) or ((6141710 6484082 7552440).pn.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	54	OR	YES		12-18-2019
((5941947 5230051 5388189 5513324 5737529 5923846 6128315 6185466 6430607 6438632 6941510 6363427 6725348 7950017 5265250 5666485).pn. or 20010018685 20020032856 20020191543 20020002586 20020047868 20030154116 20030236894 20030088568 20020198943 20020159460 20020188691 20030061388 20030074474 20040003087 20060155907 20060155867 20070101206 20100333096 20110047218 20110047310 20120029898 20130111299 or 20020073243 or (7552410 5956489 6289390 6378001 6801942 6034970 7103045 7103646 7103656 5588002).pn. or (6141710 6484082 7552440).pn.) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	43	OR	YES		12-18-2019
(shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB,	664	OR	YES		12-18-2019

	JPAB, DWPI, TDBD					
((shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	216	OR	YES		12-18-2019
((shared or common) near memory with (timer or time$1out or watchdog) and @ad<20021217) and (request$3 or messag$3) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	41	OR	YES		12-18-2019
(request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	108	OR	YES		12-18-2019
((request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		12-18-2019
(direct adj memory adj access or dma) with (timer or time$1out)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	5925	OR	YES		12-18-2019
((direct adj memory adj access or dma) with (timer or time$1out)) and (shared or common) near memory with (request$3 or memory or access$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	803	OR	YES		12-18-2019
		317	OR	YES		12-18-2019

((direct adj memory adj access or dma) with (timer or time$1out) and (shared or common) near memory with (request$3 or memory or access$3)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
((direct adj memory adj access or dma) with (timer or time$1out) and (shared or common) near memory with (request$3 or memory or access$3) and @ad<20021217) and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	74	OR	YES		12-18-2019
(shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	118	OR	YES		12-18-2019
((shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	27	OR	YES		12-18-2019
availab$7 with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	26009	OR	YES		12-18-2019
(availab$7 with (timer or time$1out or watchdog)) and (shared or common) near memory	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1276	OR	YES		12-18-2019
(availab$7 with (timer or time$1out or watchdog) and (shared or common) near memory) and @ad<20021217	PGPB, USPT, USOC, EPAB,	371	OR	YES		12-18-2019

	JPAB, DWPI, TDBD					
(availab$7 with (timer or time$1out or watchdog) and (shared or common) near memory and @ad<20021217) and (request$3 or messag$3 or (shared or common) near memory) with (storing or sav$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	116	OR	YES		12-18-2019
(request$3 or messag$3 or query$3) with (shared or common) near memory with ((timer or time$1out or watchdog) and availab$6)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	17	OR	YES		12-18-2019
(request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	108	OR	YES		12-18-2019
((request$3 or messag$3 or query$3) with (shared or common) near memory with (timer or time$1out or watchdog)) and @ad<20021217	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		12-18-2019

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/042,159	07/23/2018	Axel Fuchs	SVIPGP061H

CONFIRMATION NO. 9106

112117
Thomas D. Fortenberry, Attorney at Law
P.O. Box 2099
Woodville, TX 75979

PUBLICATION NOTICE

OC000000104849746

Title:SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK

Publication No.US-2019-0004880-A1
Publication Date:01/03/2019

NOTICE OF PUBLICATION OF APPLICATION

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

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

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's 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.

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

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 16/042,159

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			N/A	300
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	660
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	760
TOTAL CLAIMS (37 CFR 1.16(i))	20 minus 20 =	*			OR	x 100 =	0.00
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*				x 460 =	0.00
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).						0.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	1720

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)	OR	RATE($)	ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** 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.

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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
16/042,159	07/23/2018	2194	1720	SVIPGP061H	20	3

CONFIRMATION NO. 9106

112117
Thomas D. Fortenberry, Attorney at Law
P.O. Box 2099
Woodville, TX 75979

FILING RECEIPT

OC000000101941373

Date Mailed: 09/26/2018

Receipt is acknowledged of this non-provisional 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 APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Axel Fuchs, San Jose, CA;
Scott Sturges Andrews, Petaluma, CA;

Applicant(s)

Stragent, LLC, Longview, TX;

Power of Attorney: The patent practitioners associated with Customer Number 112117

Domestic Priority data as claimed by applicant

This application is a CON of 15/919,201 03/12/2018 PAT 10031790
which is a CON of 15/405,110 01/12/2017 PAT 10002036
which is a CON of 14/011,705 08/27/2013 PAT 9575817
which is a CON of 13/531,319 06/22/2012 PAT 8566843
which is a CON of 12/182,570 07/30/2008 PAT 8209705
which is a CON of 10/737,690 12/15/2003 PAT 7802263
which claims benefit of 60/434,018 12/17/2002

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: 08/29/2018

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/042,159**

Projected Publication Date: 01/03/2019

Non-Publication Request: No

Early Publication Request: No

Title

SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK

Preliminary Class

719

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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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.

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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).

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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PTO/AIA/80 (07-12)
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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

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

I hereby appoint:

■ Practitioners associated with Customer Number: 112117

OR

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

Name	Registration Number	Name	Registration Number

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

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

■ The address associated with Customer Number: 112117

OR

☐

Firm or Individual Name			
Address			
City		State	Zip
Country			
Telephone		Email	

Assignee Name and Address: Stragent, LLC
211 W Tyler St., Suite C-2
Longview, TX 75601

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be Filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

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

Signature	/Andrew Gordon/	Date	7/23/2018
Name	Andrew Gordon	Telephone	
Title	Exec VP		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
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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.
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 inspection 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.

Electronic Patent Application Fee Transmittal	
Application Number:	
Filing Date:	
Title of Invention:	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK
First Named Inventor/Applicant Name:	Axel Fuchs
Filer:	THOMAS DONALD FORTENBERRY
Attorney Docket Number:	SVIPGP061H
Filed as Large Entity	
Filing Fees for Utility under 35 USC 111(a)	

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	300	300
UTILITY SEARCH FEE	1111	1	660	660
UTILITY EXAMINATION FEE	1311	1	760	760
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	1720

Electronic Acknowledgement Receipt	
EFS ID:	33252112
Application Number:	16042159
International Application Number:	
Confirmation Number:	9106
Title of Invention:	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK
First Named Inventor/Applicant Name:	Axel Fuchs
Customer Number:	112117
Filer:	THOMAS DONALD FORTENBERRY
Filer Authorized By:	
Attorney Docket Number:	SVIPGP061H
Receipt Date:	23-JUL-2018
Filing Date:	
Time Stamp:	13:56:22
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$1720
RAM confirmation Number	072418INTEFSW13581300
Deposit Account	504964
Authorized User	Thomas Fortenberry
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Assignee showing of ownership per 37 CFR 3.73	20180723_SVIPGP061H_373c_FILED.pdf	98285 f7ed2a785d10a77e7c7eeeca7b877acb6d05e66f	no	3
Warnings:					
Information:					
2	Application Data Sheet	20180723_SVIPGP061H_ADS.pdf	1256656 6f398e0087c2c26fd92e708539f14b615fdea177	no	9
Warnings:					
Information:					
3		20180723_SVIPGP061H_Application.pdf	130320 4a160dd1ba4c2931e18a0bdfa05db1114ee92d17	yes	30

Multipart Description/PDF files in .zip description

Document Description	Start	End
Specification	1	23
Claims	24	29
Abstract	30	30

Warnings:					
Information:					
4	Drawings-only black and white line drawings	20180723_SVIPGP061H_Drawings_FILED.pdf	136617 77fe1d89071815a6794546ec42b3718232592940	no	17
Warnings:					
Information:					
5	Oath or Declaration filed	20180723_SVIPGP061x_Declaration_Andrews_signed_FILED.pdf	160288 70c64f76f9895463481a07929cc806316834babd	no	2

Warnings:					
Information:					
6	Oath or Declaration filed	20180723_SVIPGP061x_Declaration_Fuchs_signed_FILED.pdf	182839 f5c9460984a09d75b40ceffa2033bfc9ee066917	no	1
Warnings:					
Information:					
7	Power of Attorney	20180723_SVIPGP061x_POA_FILED.pdf	76481 a39f93d54410cfee7b8316c715814be5de938e7e	no	2
Warnings:					
Information:					
8	Fee Worksheet (SB06)	fee-info.pdf	34755 3dbe990e7901bd662436262def8a6fc10c5e4916	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	2076241		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PTO/AIA/96 (08-12)
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STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Stragent, LLC

Application No./Patent No.: _____ Filed/Issue Date: 7/23/2018

Titled: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK

Stragent, LLC, a limited liability company

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☑ The assignee of the entire right, title, and interest.

2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):

   ☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

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

1. From: Axel Fuchs et al. To: SystemAuto

   The document was recorded in the United States Patent and Trademark Office at
   Reel 014824, Frame 0348, or for which a copy thereof is attached.

2. From: SystemAuto To: Stragent, LLC

   The document was recorded in the United States Patent and Trademark Office at
   Reel 021317, Frame 0030, or for which a copy thereof is attached.

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

STATEMENT UNDER 37 CFR 3.73(c)

3. From: Stragent, LLC To: Stragent Technologies, LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 030452, Frame 0220, or for which a copy thereof is attached.

4. From: Stragent Technologies, LLC To: Stragent, LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 022206, Frame 0975, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

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

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

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

/ANDREW GORDON/	7/23/2018
Signature	Date
Andrew Gordon	Exec VP, Stragent, LLC
Printed or Typed Name	Title or Registration Number

[Page 2 of 2]

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:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
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 inspection 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.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	SVIPGP061H
	Application Number	
Title of Invention	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK	

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
	Axel		Fuchs	

Residence Information (Select One) ● US Residency Non US Residency Active US Military Service

City	San Jose	State/Province	CA	Country of Residence	US

Mailing Address of Inventor:

Address 1	1172 Mountain Quail Cir.
Address 2	

City	San Jose	State/Province	CA
Postal Code	95120	Country	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Scott	Sturges	Andrews	

Residence Information (Select One) ◉ US Residency Non US Residency Active US Military Service

City	Petaluma	State/Province	CA	Country of Residence	US

Mailing Address of Inventor:

Address 1	625 2nd Street
Address 2	Suite 101

City	Petaluma	State/Province	CA
Postal Code	94952	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).

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	SVIPGP061H
	Application Number	
Title of Invention	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK	

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	112117		
Email Address	tom@tflawoffices.com	Add Email	Remove Email

Application Information:

Title of the Invention	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK		
Attorney Docket Number	SVIPGP061H	**Small Entity Status Claimed**	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	17	**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.

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	112117		

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	SVIPGP061H
	Application Number	
Title of Invention	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK	

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	15919201	2018-03-12		
Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15919201	Continuation of	15405110	2017-01-12	10002036	2018-06-19
Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15405110	Continuation of	14011705	2013-08-27	9575817	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)
14011705	Continuation of	13531319	2012-06-22	8566843	2013-10-22
Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13531319	Continuation of	12182570	2008-07-30	8209705	2012-06-26
Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12182570	Continuation of	10737690	2003-12-15	7802263	2010-09-21
Prior Application Status	Expired				Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
10737690	Claims benefit of provisional	60434018	2002-12-17		

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button. Add

Foreign Priority Information:

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	SVIPGP061H
	Application Number	
Title of Invention	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK	

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button. Add

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	SVIPGP061H
	Application Number	
Title of Invention	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	SVIPGP061H
	Application Number	
Title of Invention	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1 Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

● Assignee	Legal Representative under 35 U.S.C. 117	Joint Inventor
Person to whom the inventor is obligated to assign.	Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	Stragent, LLC		
Mailing Address Information For Applicant:			
Address 1	211 W Tyler St., Suite C		
Address 2			
City	Longview	**State/Province**	TX
Country	US	Postal Code	75601
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button. Add

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	SVIPGP061H
	Application Number	
Title of Invention	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add

Signature:

Remove

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Thomas D. Fortenberry/			Date (YYYY-MM-DD)	2018-07-23
First Name	Thomas	Last Name	Fortenberry	Registration Number	56537

Additional Signature may be generated within this form by selecting the Add button. Add

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	SVIPGP061H
	Application Number	
Title of Invention	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK	

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SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK

RELATED APPLICATION(S)

This application is a continuation of U.S. Patent Application No. 15/919,201 filed 03-12-2018, which is a continuation of U.S. Patent Application No. 15/405,110 filed 01-12-2017, now U.S. Patent No. 10,002,036, which is continuation of U.S. Patent Application No. 14/011,705 filed 08-27-2013, now U.S. Patent No. 9,575,817, which is a continuation of U.S. Patent Application No. 13/531,319 filed 6/22/2012, now U.S. Patent No. 8,566,843, which is a continuation of U.S. Patent Application No. 12/182,570 filed 07/30/2008, now U.S. Patent No. 8,209,705, which is a continuation of U.S. Patent Application No. 10/737,690 filed 12/15/2003, now U.S. Patent No. 7,802,263, which, in turn, claims priority under 35 U.S.C. §119 based on U.S. Provisional Application No. 60/434,018 filed 12/17/2002, all of which are incorporated herein by reference.

FIELD AND BACKGROUND OF THE INVENTION

The present invention relates to the field of distributed control and monitoring systems that may include certain temporal behavior.

Such technology may optionally apply to electronic vehicle communication and control systems, real-time monitoring systems, industrial automation and control systems, as well as any other desired system.

SUMMARY OF THE INVENTION

A system, method and computer program product are provided for sharing information in a distributed system. After information is received, it is stored on a bulletin board. In use, the information is shared, in real-time, among a plurality of heterogeneous processes.

In one embodiment, both past and present instances of the information may be stored on the bulletin board. As an option, the information may be replicated among a plurality of the bulletin boards. Optionally, first information may be processed utilizing a first bulletin board and stored utilizing a second bulletin board. Still yet, the bulletin boards may be hierarchical.

In another embodiment, the processes may access multiple sections of the bulletin board. Further, the bulletin board may send notifications to the processes based on a state of the information on the bulletin board.

Optionally, the information may include variables. For example, the information may include input variables, output variables, etc. Moreover, the processes may include local processes, remote processes, etc. Still yet, the processes may include event triggered processes and/or time triggered processes. In use, each of the processes may process the information in a manner that is isolated from temporal characteristics associated with the network.

In still another embodiment, the information may be extracted from a message received by a bulletin board manager. Moreover, the information may be converted from a signal received by a bulletin board manager. Even still, the information may be shared in a single task, may be shared according to a schedule, and/or may be shared with an operating system. Optionally, dynamic preemptive scheduling may be provided. Also, the information may be shared across the communication

network with only a portion of a message header that is needed for a specific communication link while other communication links may use a different message header.

As a further option, resources in the network may be protected. Specifically, the resources in the network may be protected utilizing a schedule that allows information sharing utilizing the bulletin board. In another embodiment, the resources in the network may be protected utilizing semaphores.

In even still another embodiment, the information may be shared according to an internal clock, an external clock, etc. During operation, objects may be generated based on a change of state of the information stored in the bulletin board. Such objects may include, but are not limited to flags, events, signals, interrupts, etc. Still yet, the information may be stored in response to interrupts associated with the processes.

In use, the bulletin board may update the processes with information at a first rate that differs from a second rate with which the processes send the information to the bulletin board. Optionally, the bulletin board may be accessed with guaranteed access times, jitter, and bandwidth.

In addition, the bulletin board may be updated irregularly and triggered by internal or external objects including, but not limited to flags, events, signals, interrupts, etc. Event triggers may be provided independent of a link connection between nodes where the processes are carried out. Moreover, failure redundancy may be provided through multiple independent links across diverse physical connections.

As yet another option, the information may have a user-configured constraint associated therewith. Such constraint may include a memory constraint, a real-time constraint, etc. As a further option, the constraint may be configured utilizing a tool.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. **1** is a block diagram of an embodiment of a system of one embodiment;

FIG. **2** is a block diagram generally depicting an embodiment of an ECU as part of the system illustrated in FIG. **1**;

FIG. **3** is a block diagram generally depicting an embodiment of a Gateway device as part of the system illustrated in FIG. **1**;

FIG. **4** is a block diagram of an embodiment of the software architecture assumed for one embodiment.

FIG. **5** is a block diagram of an embodiment of the middleware that contains the methods of one embodiment.

FIG. **6** is a block diagram of an embodiment of the bulletin board that describes the process interaction of one embodiment.

FIG. **7** is a block diagram of an embodiment of the bulletin board that describes the process interaction with multiple external communication buses as part of one embodiment.

FIG. **8** is a flow chart diagram of an embodiment of the variable store from remote I/O method of one embodiment.

FIG. **9** is a flow chart diagram of an embodiment of the variable store from local I/O method of one embodiment.

FIG. **10** is a flow chart diagram of an embodiment of the variable method of one embodiment.

FIG. **11** is a flow chart diagram of an embodiment of the variable retrieve method of one embodiment.

FIG. **12** is a flow chart diagram of an embodiment of the application process using the method of one embodiment

FIG. **13** is a flow chart diagram of an embodiment of the local I/O update from bulletin board method of one embodiment.

FIG. **14** is a flow chart diagram of an embodiment of the variable replication method of one embodiment.

FIG. **15** is a flow chart diagram of an embodiment of the message store from remote gateway method of one embodiment.

FIG. **16** is a flow chart diagram of an embodiment of the message forward to remote ECU or Gateway method of one embodiment.

FIG. **17** is a state transition diagram of an embodiment of the mode switching method of one embodiment.

DETAILED DESCRIPTION

FIG. **1** is a block diagram generally depicting elements of an embodiment of the present distributed embedded communication and computing system. The system architecture may be situated in automotive electronics or industrial control and monitoring systems. In an automotive environment, the various Electronic Control Units (ECUs, **102**) control complex applications such as engine control, brake control, or diagnostics. They are either connected to sensors and actuators via discrete links or simple standard functions such as sensors and actuators are organized into separate sub networks.

These complex functions such as braking, engine-control, etc. are then grouped into the backbone system functions for the car, such as body control, power train and chassis. The backbone also includes the vehicle's high level functions such as diagnostics, telematics and entertainment systems.

Therefore the system is typically hierarchically organized and includes a variety of gateways (**101,104,105**), which relay messages up and down through the system layers. Each layer may contain multiple electronic control units (ECU, **102**) that are connected through wired serial multiplexing bus-systems such as Controller Area Network (CAN or ISO11898), Flexray, LIN, J1850, J1708, MOST, IEEE1394, and other similar serial multiplexing buses or through wireless multiplexing systems such as IEEE802.11, IEEE802.15, Bluetooth, Zigbee, or similar other wireless links.

Typically, functions provided by an ECU (**102**) are bound to hard real-time temporal behavior. In the context of the present description, real-time may include any response time that may be measured in milli- or microseconds, and/or is less than 1 second.

The ECU may receive a set of real-time input variables from local sensors (**108**), which are connected via discrete signal lines (**113**), or from networked sensors (**106**), which are connected through a multiplexing bus-system (**112**). The ECU may also share variables with other ECUs (**102**) that are either connected on the same physical multiplexing bus or that it can reach through a gateway (**101,103,104**).

Then the ECU (**102**) processes the input variables and generates a set of output variables that are either shared with other ECUs (**102**) as described above, or which are output to local actuators (**109**), which are connected via discrete signal lines (**113**), or to networked actuators, which are connected through a multiplexing bus (**112**). ECUs (**102**) typically share information with devices that are connected on the same physical multiplexing system. This method of information sharing is called horizontal information sharing in a hierarchical system. Gateways (**101,103,104**) link multiple physical multiplexing systems together. In the context of the present description, such information may include data, a signal, and/or anything else capable of being stored and shared.

The highest level in the hierarchical system is the system level. The system level gateway (**101**) may be connected to ECUs on the system level multiplexing bus (**117**), to subsequent gateways (**103**) that also link to subsequent communication buses (**110**), and to external components (**120**) that may contain diagnostics devices (**121**), development tools (**122**), other add-on devices (**123**) or other instances of distributed embedded communication and computing systems (**100**). In addition, the system gateway (**101**) may also be connected to an external gateway (**131**) that may link the system to a remote device (**132**) through wireless or wired wide-area-networks such as the Internet, using standard protocols such as UDP/IP, TCP/IP,RTP,HTTP, SOAP, JAVA, etc. or nonstandard proprietary protocols.

Subsequent to the system level may be several layers of groups and subgroups that are link to the higher levels via gateways (**101,103,104,105**).

During the design-time of the system, not all ECUs may exist. Therefore, the development tool (**122**) may provide a plug-in component or virtual ECU/GW (**115**) that directly links into the wired multiplexing bus or wireless network (**110**) and also allows for separate control functions via a tool-link (**116**).

The block diagram in FIG. **2** depicts the detailed elements within a generic ECU (**200**) that is one embodiment of ECU (**102**). The ECU (**200**) typically contains a micro-processor (**201**), volatile memory (**204**) such as RAM, S-RAM or similar, non-volatile memory (**203**) such as EEPROM, FLASH, etc., a real time clock for internal timing of processes (**205**), a watchdog (**206**) to maintain the health of the system, one or more communication bus controllers (**207**) with associated drivers (**208**), digital I/O (**209**) with line drivers (**210**), and analog I/O (**211**) with associated analog signal conditioning (**212**).

In an alternate embodiment, the ECU (**200**) may also contain a wireless communication controller (**311**) and a RF-Front-end (**312**) as outlined in FIG**3**. The software (**202**) can either be stored in local non-volatile memory (**203**) or partially downloaded via the communication link (**207,208**) and stored in the volatile memory. The software is then executed in the microprocessor (**201**).

The block diagram FIG. **3** depicts the detailed elements within a generic gateway (**300**) that is one embodiment of Gateway (**101,103,104,105**) in FIG. **1**.

FIG. **4** outlines one embodiment of the software architecture in an embedded system. The hardware abstraction layer (**405**) allows the system developer to adapt a standard operating system to a specific hardware as used in an ECU (**200**) or gateway (**300**). The hardware abstraction layer (**405**) adapts the real-time operating system (**403**) and the device drivers (**404**) to a specific hardware implementation.

One embodiment includes the middleware (**402**) that has direct access to the real-time operating system (**403**), the device drivers (**404**) and the hardware abstraction layer (**405**). The middleware isolates the application from input/output functions and allows multiple applications to share common variables locally. In addition, the middleware lets applications share variables with remote applications/processes. In the context of the present description, a process may refer to any hardware and/or software operation, etc.

In one embodiment, the middleware can directly interface with the input/output mechanisms of the hardware without utilizing an operating system (**403**) or hardware abstraction layer (**405**).

Another embodiment of the middleware utilizes a preemptive multitasking operating system with explicit control of resources. In an alternate embodiment, the middleware can be built with a static multitasking scheme with implicit resource management or be part of a single task system.

Referring now to FIG. **5**, the middleware (**402**) contains the bulletin board manager (**501**), a local signal communication interface (**503**), a remote message communication interface (**504**), and an application programming interface (**502**). The application interface (**502**) provides methods and data interfaces to a plurality of applications. In one embodiment, the application interface is an object library that can be linked to an application at design time.

The bulletin board manager (**501**) contains an upgrade and configuration manager (**507**), an event manager (**505**), a data access manager (**508**), and a data integrity watchdog (**506**). The upgrade and configuration manager (**507**) is necessary to configure the data structure of the bulletin board and to make executable code available to individual processing nodes. In the context of the present description, the bulletin board may refer to any database that enables users to send and/or read

electronic messages, files, and/or other data that are of general interest and/or addressed to no particular person/process.

The access manager provides access control mechanisms for the code update and configuration mode. It also may control access rights for individual applications at execution time in the run mode.

The event manager (**505**) captures input-output events as variables and generates new events, flags, or signals based on operations on state variables in the bulletin board. Such operations may include test of maximum values, the occurrence of logically combined events, the result of an integrity check, or events and signals that are created based on any other logical or arithmetic computation on the state variables that are stored in the bulletin board. The actual processing of data and manipulation of data may be done in the application that uses the middleware (**402**). The data integrity watchdog analyses the stored state variables for its integrity and generates events or flags if any problem occurs.

The local signal communication interface (**503**) interfaces with the local discrete input/output hardware to update the bulletin board with new variables and to update the input/output interfaces with the state variables from the bulletin board. It also converts state variables to input/output signals and input/output signals to state variables that can be stored in the bulletin board. The conversion process may contain scaling of signals as well as offset compensation. Typically this processing helps to convert I/O signals that are measured in Volt to a physical entity and vice versa. The communication with the local discrete input output system can be triggered by events or signals can be sampled time-triggered based on a cyclic global or local time base.

The remote message communication interface (**504**) interfaces to serial multiplexing interfaces (buses) that are connected to the specific processing node (ECU or Gateway). It extracts variables from a plurality of messaging protocols and stores

them in the database. It also replicates local bulletin-board state variables to the associated processing nodes by composing the appropriate messages for each communication link. The message transfer can be initiated triggered by a bus event, by a local event, or by a time-triggered mechanism that uses a cyclic local or global time base.

FIG. **6** shows the concept of an extended bulletin board or an embedded real-time database (**601**). In this embodiment the ECU (**102**) or the Gateway (**101**) hosts one or multiple bulletin boards with relational links between the variables in the bulletin boards. The relations are defined by data processing functions that the gateway can operate on bulletin boards to obtain new information that can be stored in yet another bulletin board.

The bulletin board (**601**) may contain but is not limited to events (**607**), real-time variables (**608**), diagnostics data (**609**), configuration parameters (**610**), and firmware (**611**) to upgrade individual components of the executable code or the entire software of a processing node. Each type of information may include one or more sections so that individual processes are not blocked if they access separate sections of data.

The memory of the bulletin board is subdivided into areas that nodes on each external network can read from and write into and other areas that an external network may only read from. The data contained in the bulletin board may be stored in volatile or non-volatile memory. Each data entry may consist of one value or an array of values that also may represent a time series.

In one embodiment, each application process (**603**), local signal communication process (**605**), remote message communication process, and the bulletin manager (**602**) can individually access the bulletin board using operating system functions for resource management that may include semaphores, events, signals, call-back routines, flags, etc. in an alternate embodiment of the system the bulletin-board

manager controls all interaction with the bulletin-board and all applications have to pass data to the bulletin-board manager. This approach simplifies the interaction with the bulletin board, but adds delay time and jitter to the state variables.

At design time, various hierarchies of memory management can be applied. In practice it is more efficient to allow each sub network and subsystem to place system variable data into local bulletin boards. This is because many system variables are primarily used only within their subsystem or sub network. By placing local information in a shared memory (local bulletin board), it can be used by multiple processes on this processor node. A group bulletin board allows devices on a sub-network to share information with a minimum of network traffic. A system bulletin board allows access to system-wide variables and information.

FIG. **7** illustrates the logical architecture of the interconnection between three heterogeneous network controllers (**702, 703, 704**), the associate Operating System interfaces (**705**), the remote message communication process (**706**), the bulletin board (**608**), and the application process (**606**). The connection to each communication controller is fundamentally implemented at the physical interface (the wire, fiber or electromagnetic wireless interface). Each of the higher level layers (data link, network, etc) in the communication interface (**705**) deals with specific features of the individual communication process. In practice these layers are typically represented in a message by "header" bits that contain information about that layer of the network being used to send the message.

Using this model, each communicated message may be processed at each layer to remove (and use) the associated header information for that level. Once all layers are processed the remaining packet data unit (PDU) represents the datum or core information carried by the overall message. In one embodiment, each communication controller has an associated communication interface and an associated remote message conversion mechanism. For instance communication bus

controller **2** (**703**) has an associated communication interface **2** (**709**), and an associated remote message conversion **2** (**710**).

This arrangement allows the remote message process (**706**) to directly access information at the data link layer and interface it with the bulletin board. A network layer is not necessary. The remote message communication process (**706**) has a multi-network access interface (essentially a processing capability that can interpret and apply the header information for a variety of networks) and the bulletin board read/write memory access. Now, the individual processing nodes do not need to know about the existence of multiple networks. Each variable can be accessed from all connected physical networks in their proprietary format. Thus the normalization of the information has only to be handled at the gateway through replication of stored data to multiple attached networks.

Continuing with FIG. **7**, the communication procedure is described. In the given example, an external event (**701**) on communication controller **2** (**703**) triggers the operating system to notify the remote message communication process (**706**) that data is available. The notification may be a flag, a call-back routine, an event, or any other operating signal. The associated remote message conversion method **2** (**710**) extracts the data (e.g. real time variables) from the message PDU and stores the data in the bulletin board (**608**). It may also store the associated event as variable in the bulletin board and signal the bulletin-board event manager that new data is available.

The bulletin event manager then notifies the application process (**606**) with the appropriate mechanism. In addition, the event manager may trigger the sampling of local signals using the local signal communication process (**605**) described in FIG. **6**. Finally the bulletin event manager may trigger the bulletin board manager (**707**) to perform integrity checks or generate additional events based on the change of the state variables.

One embodiment provides a new mechanism for creating an information interconnection between two or more heterogeneous communication networks. In the context of the present description, heterogeneous networks may refer to any different communication networks with at least one aspect that is different.

The approach uses a common, or shared storage system that is connected to all of the system networks through network interfaces. A critically important feature of the bulletin board approach is that the complexity of the bulletin board grows linearly with the number of networks (as opposed to as N(N-**1**) for the gateway approach), and in one-to-many situations the number of message transformations is half that of the standard networking approach.

In an alternate embodiment of the remote message communication process (**706**) any remote process can access data via a single network interface. This approach requires a network layer in each processing node and therefore adds overhead to communications. To communicate between two heterogeneous networks, this process may then be repeated in reverse by adding back the header information for the various layers of the second network, and eventually putting the message onto the second network's physical link. The remote message communication manager (**706**) then can be simplified to only one message assembly and disassembly mechanism.

FIGS. **8-17** illustrate the method of operation of one embodiment of the present system, and also refer to aspects and elements one embodiment shown in FIGS. **1** through **7**.

FIG. **8** details the remote messaging process (**706**) described in FIG. **7**. Referring now to FIG. **8**, the core process of storing data from remote processes that are communicated through multiplexed communication links, into the bulletin board is described. An external notification or task activation starts the process. Then a message (**802**) is received from the operating system layer.

In an alternate embodiment, the message is directly copied form the input register of the communication controller. Then the process extracts variables from the message. Additional signal adaptation may be necessary. The sub-process **804** stores the variables in the bulletin board. If the process only updates one section of the bulletin board it waits for the next message notification (**806**). If variables in multiple sections need to be updated, the process repeats (**804**).

FIG. **9** shows the data update from local input/output peripherals. The process starts with an internal or external notification or task activation. Typically this process is repeated cyclic triggered by an internal or external real-time clock. When the process is activated, it samples or polls the local input ports that may include analog and digital signals (**902**). Then it converts these signals to real-time variables by using the conversion parameters stored in the bulletin board. The signal conditioning parameters van either be defined at design time or adaptively updated by the application process. Then the process stored the new state variables in the bulletin board using the sub-process (**804**) described above.

FIG. **10** describes the bulletin board store procedure (**804**) in more detail. Before new data can be stored in the bulletin board, the procedure has to request the access right to the common resource, a section of the non-volatile or volatile memory, from the operating system (**1001**). This is called explicit resource management.

If the resource is available, the process gets the resource. If the resource is not available, it may try it again after a waiting period (**1011**) until the resource is available. After a certain time has elapsed (**1009**) beyond a configurable threshold, the temporal behavior of the state variable can't be captured any longer and the middle-ware may send an error notification to the associated process.

After reserving the resource (**1003**), the bulletin board store mechanism (**804**) timestamps the state variable for future temporal reference (**1004**). Then, the bulletin

board store procedure (**804**) copies the variables or parameters from its private memory (**1006**) to the shared bulletin-board memory (**601**). Then it releases the bulletin board resource.

In an alternate embodiment, the bulletin board store procedure (**804**) has exclusive access to the bulletin board (**601**) and does not need operations **1002, 1003, 1007, 1009, 1010,** and **1011** because the resource access is realized through implicit resource management. This can be achieved with either static task scheduling or by allowing only the bulletin board store procedure (**804**) to access the bulletin board (**601**).

FIG. **11** describes the bulletin board retrieve procedure (**1101**) in more detail. Before data can be retrieved from the bulletin board, the procedure has to request the access right to the common resource, a section of the non-volatile or volatile memory, from the operating system (**1102**).

If the resource is available, the process gets the resource. If the resource is not available, it may try it again after a waiting period (**1108**) until the resource is available. After a certain time has elapsed (**1109**) beyond a configurable threshold, the temporal behavior of the state variable can't be captured any longer and the middle-ware may send an error notification to the associated process (**1110**).

After reserving the resource (**1104**), the bulletin board retrieve mechanism (**1101**) copies the variables or parameters from the shared bulletin-board memory (**601**) to its private memory (**1006**). Then, it releases the bulletin board resource.
In an alternate embodiment the bulletin board retrieve procedure (**1101**) has exclusive access to the bulletin board (**601**) and does not need operations **1103**, **1104, 1106, 1108, 1109,** and **1110**. Because the resource access is realized through implicit resource management, this can be achieved with either static task scheduling

or by allowing only the bulletin board retrieve procedure (**1101**) to access the bulletin board (**601**).

Referring to FIG. **12**, the application process (**1200**) utilizes the bulletin board retrieve mechanism (**1101**) to access all parameters, events, and real-time variables from the bulletin board. Thus the application process is decoupled from the temporal behavior of the input/output variables and can be triggered by a plurality of events (**1201**).

The application process may retrieve one or multiple sets of variables stored in a plurality of memory sections. Then the application process processes the variables (**1203**) with its method. Because the method is not tied to the location of the input/output variables, the application process can be moved or replicated to a plurality of processing nodes (ECUs or Gateways). After processing the input variables and generating a set of output variables, the application process uses the bulletin board store method (**801**) to update one or a plurality of memory sections in the bulletin board. If the application process is a cyclic procedure, it waits until the next activation occurs (**1205**).

Continuing with FIG. **13**, the update local I/O from bulletin board process (**1300**) utilizes the bulletin board retrieve mechanism (**1101**) to access real-time variables from the bulletin board and convert them to output signals (**1302**) that can be written to the output port (**1303**). The I/O update process may retrieve one or multiple sets of variables stored in a plurality of memory sections. If the I/O update process is a cyclic procedure, it waits until the next activation occurs (**1305**).

FIG. **14** describes the data replication process (**1400**). This process can be triggered by a plurality of notification mechanisms, such as events, alarm signals, internal and external timers, and flags set in the bulletin board. It then selects a subset of variables to be replicated and a communication port (**1402**). Next it retrieves the

variables from the bulletin board with mechanism (**1401**) and assembles the messages for the specific communication link (**1403**). The message may include an address or identification number for all bulletin boards and associated processing nodes (ECUs and Gateways).

Finally, it writes the messages to the communication port (**1404**). In an alternate embodiment, it handles the messages to the associated interface procedure of the operating system. Then it repeats the procedure, until all variables are updated on all communication ports. If the data replication process is a cyclic procedure, it waits until the next activation occurs (**1405**).

Referring now to FIG. **15**, the store message from remote processing node (gateway or ECU) process (**1500**) describes how replicated data is stored in the bulletin board. This process can be triggered by a plurality of notification mechanisms, such as internal or remote events, alarm signals, internal and external timers, and flags set in the bulletin board. The communication bus may also issue these notifications. The process (**1500**) then reads a message from the communication port (**1502**), selects a subset of variables to be replicated (**1503**), and stores the variables in the bulletin board with procedure (**801**). In an alternate embodiment, this procedure may also be used to store a packet data unit (PDU) in the bulletin board for later replication on the same or a different communication link.

This store and forward networking mechanism can be implemented without the need for complex networking protocols and is therefore well suited for limited processing power and memory environments. It also works in soft-real time environments when no strict temporal behavior is required. The data store operation (**801**) may be repeated for a plurality of bulletin board sections. If the data replication process is a cyclic procedure, it waits until the next activation occurs (**1505**).

Continuing now with FIG. **16**, the store and forward updating mechanism (**1600**) replicates messages from remote processing nodes to other processing nodes from

stored packet data units in the bulletin board. This process can be triggered by a plurality of notification mechanisms (**1601**), such as internal or remote events, alarm signals, internal and external timers, and flags set in the bulletin board. The communication bus may also issue these notifications.

The process (**1600**) then selects a message to be forwarded (**1602**) and the appropriate communication link and retrieves the PDU with the bulletin board retrieve mechanism (**1101**). It then adds the appropriate messages header for the communication link (**1603**) and may add routing information (**1604**). Finally the update process (**1600**) writes the messages to the communication port (**1605**). If the updating process is a cyclic procedure, it waits until the next activation occurs (**1607**).

FIG. **17** describes the various modes that the distributed communications and computing system (**100**) can be operated in. In one embodiment, the system operates in various distinct modes in order to preserve the integrity of the system and still allow for changing the architecture and behavior of the network or the roles of the individual nodes. When the distributed computing and communication system wakes up from the sleep mode (**1701**), it can enter a configuration and upgrade mode (**1702**), an emergency or debug mode (**1704**), or the normal real-time run mode (**1703**). The root node or system gateway in a distributed communication and computing system defines the mode based on the existence of external events, such as an external control command, internal events, a system failure, or failed integrity check.

Referring now to FIG. **1**, the external commands may be generated from a development tool (**122**) or a remote device (**132**) that is connected via a remote gateway (**131**). In an alternate embodiment, each ECU (**102**) or virtual ECU (**115**) can trigger the system to enter a different operating mode.

Continuing with FIG. **17**, in the configuration mode (**1702**), the system software and the information-sharing configuration can be updated via a secure communication link with encrypted commands. Each processing node (ECU or gateway) may have security mechanisms such as a certificate that allows it to identify and authorize another entity (remote gateway, remote ECU, or development tool) to make changes to its bulletin board parameters.

The remote entity may also download a new firmware to the bulletin board. The ECU or gateway can store this new firmware in its non-volatile memory while it backs up the original image on the bulletin board for the case that the new software is not functional. In the update mode, the distributed system can also reconfigure the communication and computing infrastructure based on a new set of parameters that need to be stored in the individual bulletin boards.

In the normal run mode (**1703**), the system operates in the real-time information sharing mode and network configuration and certain parameters can't be changed. That protection allows defining deterministic temporal behavior on all communication links. But any processing node may enter a debug/emergency mode (**1704**) if a failure or other qualifying event occurs.

In the emergency mode, a processor executes an alternate procedure that maintains the temporal behavior on the communication links but may reduce or increase the amount of information shared with other processors. It also lets other processing nodes check on the integrity of sensors and actuators. In the maintenance and upgrade mode, an external system can upgrade executable code images and the bulletin-board configuration via secure communication links.

A system and method are thus provided for sharing information within a distributed embedded communications and computing system and with components outside the embedded system. The information sharing mechanism relies on a bulletin board that may include a small database operating under hard real-time conditions with

minimal delays, communication latency, and jitter. The embedded database or bulletin board isolates a real-time application in a Electronic Control Unit (ECU) from various other real time applications and from input output signals in the same module (local information sharing), from event-triggered communications with applications in other modules, and from time-triggered communications with applications in other modules.

One design criteria of the database is that the temporal behavior of communications does not impact the real-time computing task and provides enough information access performance at peak time demand. Typically, distributed embedded systems consist of a static structure that can be analyzed at design time. In addition to the real-time operation, the proposed method for information sharing also provides access to the parameters of the embedded system and allows for software upgrades of certain modules.

The present embodiment addresses the shortcomings of traditional computer networks with following enhancements:

1) The concept of multi-mode storage that links two or more communication networks via a bulletin board. The bulletin board is a multi-mode storage that can be thought of an extension to shared memory that can be accessed by local and remote processes at attached networks. There may be multiple hierarchical layers of bulletin boards depending on the topology of the communication system. The bulletin board increases the network efficiency by reducing the number of transactions needed to access remote variables.

2) The concept of a direct-access bulletin board that does not require a network layer translation of messages on each node of the network. Even though this approach restricts the reach of each node to only adjacent nodes and the next gateway, this still allows cross-network variable sharing though vertical real-time replication of data.

3) The concept of hierarchical bulletin board management that allows restriction of information access to certain levels in a network, but still allows the replication of information to other nodes in the network. This paradigm follows the path of reducing the information amount from the leaves of the network to central control and diagnosis hubs.

4) The concept that a gateway can host an assembly of bulletin boards or embedded database that allows operations on bulletin boards to generate events for associated processes. This extension allows definition of a set of data processing operations that would be done once in a network and would be instantly available for connected nodes. Examples for operations are sensor data state observers, diagnostics, integrity checks, fail-safe mechanisms, etc.

5) The concept that an embedded communication and computing network can run in multiple modes in order to provide for a guaranteed deterministic behavior of the system. This property can be achieved by only allowing change to the configuration and/or the functions (SW code) in a secured configuration and upgrade mode. If the network is booted in the normal operating mode, all processors execute the existing code and only allow data sharing through the bulletin boards. The emergency or debug mode lets the network run in a fail-safe reduced operation mode or in a diagnostic mode that allows inspection of the system, while it is running. For each operating mode, the gateway can store a processing image on the bulletin board. The advantage of this procedure is that only the communication hubs need to deal with secure data transfer and encryption while the peripheral nodes in the network can be relative simple in design.

6) The concept of designing the topology of a distributed computing and communication system independent of the definition of the individual functions that the network performs. Each processing task is only associated with a bulletin board, but isolated from I/O processing.

Of course, these are all optional embodiments/enhancements.

While various embodiments have been described above, it should be understood that they have been presented by the way of example only, and not limitation. Thus, the breadth and scope of a preferred embodiment should be not limited by any of the above described exemplary embodiments, but should be defined only in accordance with the following claims and their equivalents.

CLAIMS

What is claimed is:

1. A system, comprising:

an automotive electronic control unit configured for:

receiving information associated with a message;

issuing a storage resource request in connection with a storage resource and determining whether the storage resource is available;

determining whether a threshold has been reached in association with the storage resource request;

when the storage resource is not available and the threshold associated with the storage resource request has not been reached, issuing another storage resource request in connection with the storage resource;

when the storage resource is not available and the threshold associated with the storage resource request has been reached, sending a notification; and

when the storage resource is available, storing the information utilizing the storage resource;

wherein the automotive electronic control unit is operable such that the information is capable of being shared in less than one second, and the automotive electronic control unit includes a plurality of interfaces including:

a first interface; and

a second interface for interfacing with a network, the second interface including a second interface-related data link layer component for using network-related data link layer header bits and a second interface-related network layer component for using network-related network layer header bits, where the network is at least one of a Controller Area Network, a Flexray network, or a Local Interconnect Network.

2. The system as recited in claim 1, wherein the system is operable such that the information reaches a destination on the network in less than one second.

3. The system as recited in claim 1, wherein the system is operable such that the information reaches a destination on the network in less than a millisecond.

4. The system as recited in claim 1, wherein the system is operable such that a duration between the information being received and being shared is less than one second.

5. The system as recited in claim 1, wherein the system is operable such that a duration between the information being received and the sharing being completed is less than a millisecond.

6. The system as recited in claim 1, wherein the system is operable such that the information is shared in less than a millisecond.

7. The system as recited in claim 6, wherein the system is configured for sharing automotive sensor data between heterogeneous networks with sufficient speed for use in connection with an automotive device.

8. An apparatus, comprising:

an automotive electronic control unit configured for:

identifying information associated with a message received utilizing a first network protocol associated with a first network;

issuing a storage resource request in connection with a storage resource and determining whether the storage resource is available;

determining whether a threshold has been reached in association with the storage resource request;

in the event the storage resource is not available and the threshold associated with the storage resource request has not been reached, issuing another storage resource request in connection with the storage resource;

in the event the storage resource is not available and the threshold associated with the storage resource request has been reached, sending a notification; and

in the event the storage resource is available, storing the information utilizing the storage resource;

wherein the apparatus is operable such that the information is capable of being shared in less than one second utilizing a second network protocol associated with a second network, and the automotive electronic control unit remains in hardwired communication with the first network and the second network and includes:

a first interface for interfacing with the first network, the first interface including a first interface-related data link layer component for using first network-related data link layer header bits and a first interface-related network layer component for using first network-related network layer header bits, where the first network is at least one of a Controller Area Network type, a Flexray network type, or a Local Interconnect Network type; and

a second interface for interfacing with the second network, the second interface including a second interface-related data link layer component for using second network-related data link layer header bits and a second interface-related network layer component for using second network-related network layer header bits, where the second network is at least one of the Controller Area Network type, the Flexray network type, or the Local Interconnect Network type.

9. The apparatus as recited in claim 8, wherein the apparatus is operable such that network layer translation is capable of being avoided.

10. The apparatus as recited in claim 8, wherein the apparatus is configured for sharing automotive sensor data received via the first network for use in connection with an automotive device on the second network, in less than the one second.

11. The apparatus as recited in claim 8, wherein the apparatus is configured for sharing automotive sensor data received via the first network for use in connection with an automotive actuator on the second network, in less than a millisecond.

12. The apparatus as recited in claim 11, wherein the apparatus is operable such that the information is shared by the second interface-related network layer component using the second network-related network layer header bits by adding the second network-related network layer header bits to a data unit including the information, and then the second interface-related data link layer component using the second network-related data link layer header bits by adding the second network-related data link layer header bits to the data unit, before communicating the data unit on a physical link of the second network.

13. The apparatus as recited in claim 12, wherein the apparatus is operable such that the first interface-related data link layer component uses the first network-related data link layer header bits by removing the first network-related data link layer header bits from another data unit, and the first interface-related network layer component uses the first network-related network layer header bits by removing the first network-related network layer header bits from the another data unit so that the information is removed from the another data unit, before the sharing.

14. A non-transitory computer-readable medium storing a computer program product for sharing information, the computer program product comprising:

code for receiving information associated with a message received utilizing a first network protocol associated with a first network;

code for issuing a storage resource request in connection with a storage resource for determining whether the storage resource is available;

code for determining whether a threshold has been reached in association with the determination whether the storage resource is available;

code for, when the storage resource is not available and the threshold associated with the determination whether the storage resource is available has not been reached, issuing another storage resource request in connection with the storage resource;

code for, when the storage resource is not available and the threshold associated with determination whether the storage resource is available has been reached, sending a notification; and

code for, when the storage resource is available, storing the information utilizing the storage resource;

wherein the computer program product is operable such that the information is capable of being shared in less than one second utilizing an automotive electronic control unit that remains in hardwired communication with the first network and a second network, and that includes a plurality of interfaces including:

a first interface for interfacing with the first network, the first interface including a first interface-related data link layer component for using first network-related data link layer header bits and a first interface-related network layer component for using first network-related network layer header bits, where the first network is at least one of a Controller Area Network, a Flexray network, or a Local Interconnect Network; and

a second interface, the second interface including a second interface-related data link layer component for using second network-related data link layer header bits.

15. The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that the information reaches a destination on the second network in less than one second.

16. The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that the information reaches a destination on the second network in less than a millisecond.

17. The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that a duration between the information being received and the sharing being completed is less than one second.

18. The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that a duration between the information being received and the sharing being completed is less than a millisecond.

19. The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is operable such that the sharing of the information is completed in less than a millisecond.

20. The non-transitory computer-readable medium as recited in claim 14, wherein the computer program product is configured for sharing the information in the form of automotive sensor data received via the first network for use in connection with an automotive device on the second network, in less than the one second.

ABSTRACT

A system, method and computer program product are provided for receiving information associated with a message, issuing a storage resource request in connection with a storage resource and determining whether the storage resource is available. In use, the information is capable of being shared in less than one second, utilizing an automotive electronic control unit which includes a plurality of interfaces.

FIGURE 1

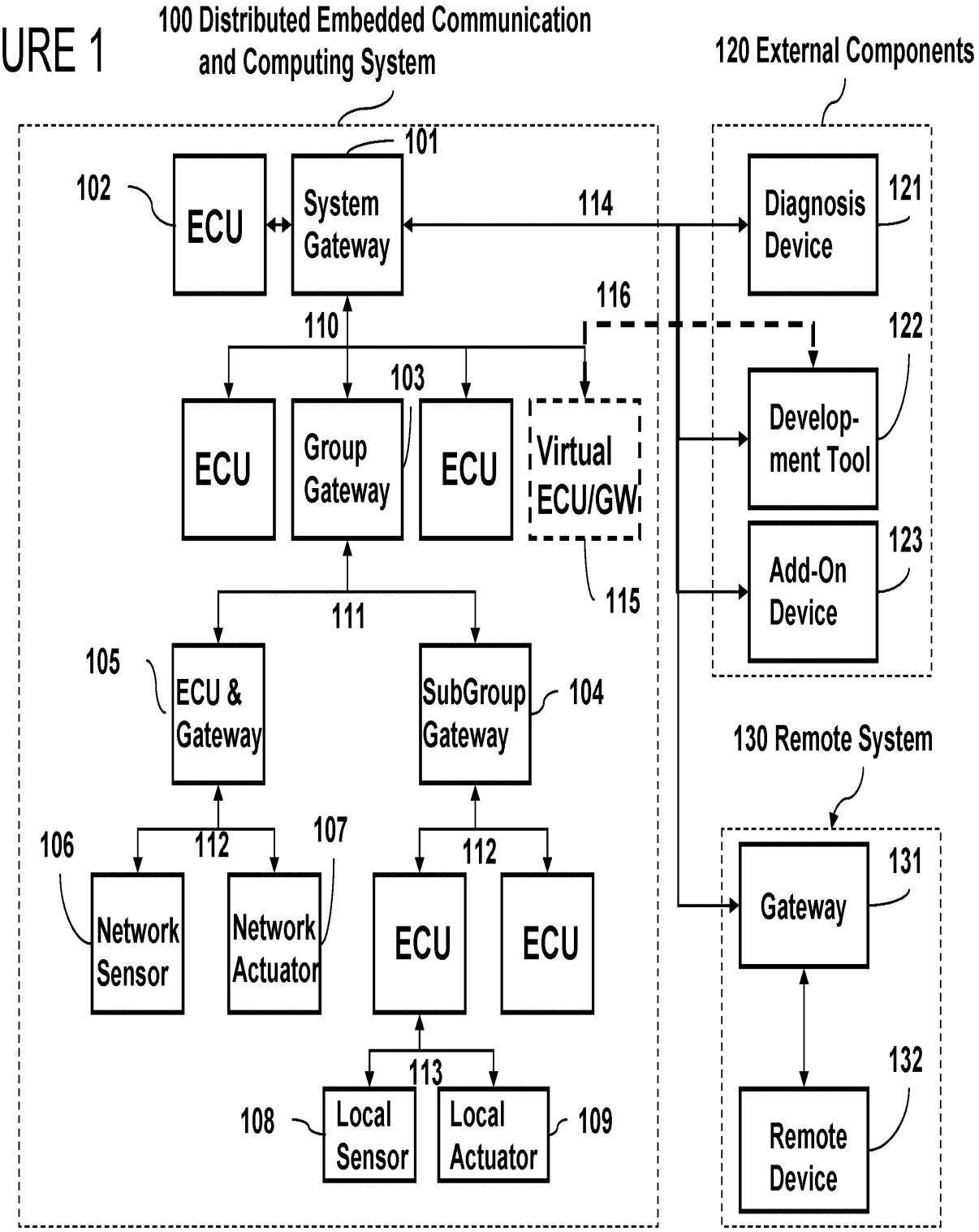

100 Distributed Embedded Communication and Computing System
120 External Components
101
102
ECU
System Gateway
114
Diagnosis Device
121
116
110
122
103
ECU
Group Gateway
ECU
Virtual ECU/GW
Develop-ment Tool
123
Add-On Device
115
111
105
ECU & Gateway
SubGroup Gateway
104
130 Remote System
106
112
107
112
Network Sensor
Network Actuator
ECU
ECU
131
Gateway
113
132
108
Local Sensor
Local Actuator
109
Remote Device

FIGURE 2

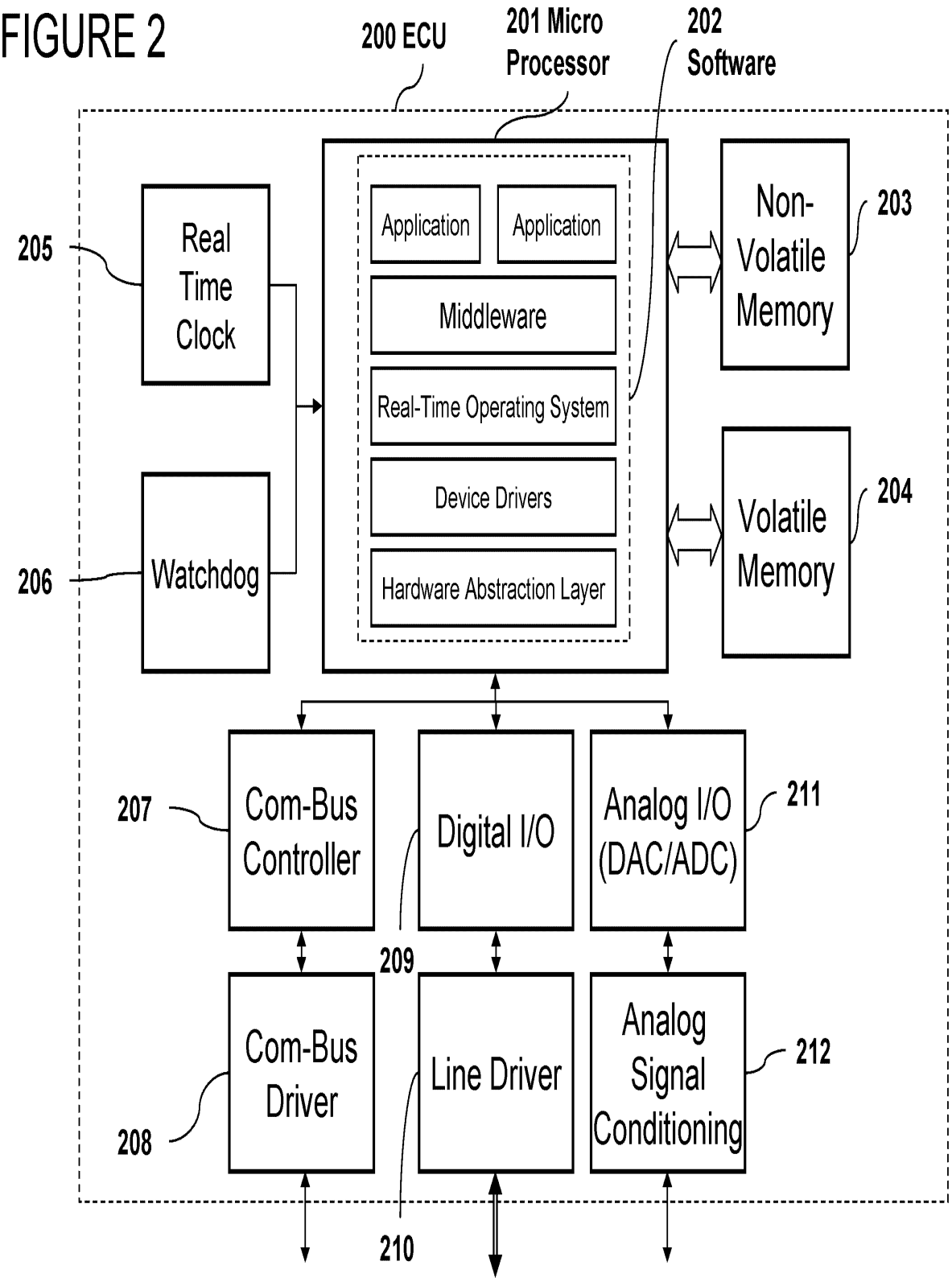

200 ECU
201 Micro Processor
202 Software
Application
Application
Middleware
Real-Time Operating System
Device Drivers
Hardware Abstraction Layer
205
Real Time Clock
206
Watchdog
Non-Volatile Memory
203
Volatile Memory
204
207
Com-Bus Controller
Digital I/O
Analog I/O (DAC/ADC)
211
209
208
Com-Bus Driver
Line Driver
Analog Signal Conditioning
212
210

FIGURE 3

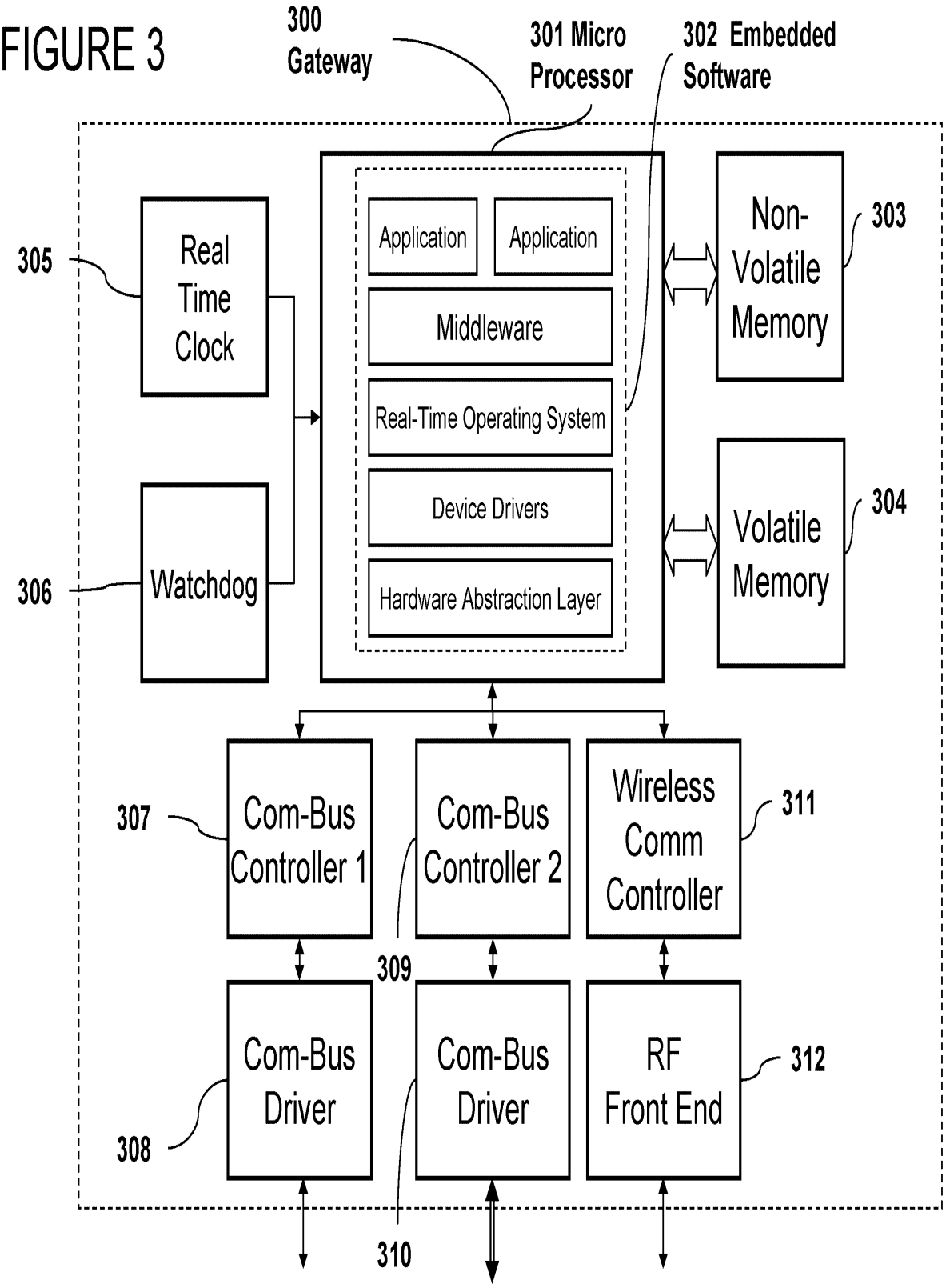

300
Gateway
301 Micro
Processor
302 Embedded
Software
Application
Application
Middleware
Real-Time Operating System
Device Drivers
Hardware Abstraction Layer
Real
Time
Clock
305
Watchdog
306
Non-
Volatile
Memory
303
Volatile
Memory
304
Com-Bus
Controller 1
307
Com-Bus
Controller 2
Wireless
Comm
Controller
311
309
Com-Bus
Driver
308
Com-Bus
Driver
RF
Front End
312
310

FIGURE 4

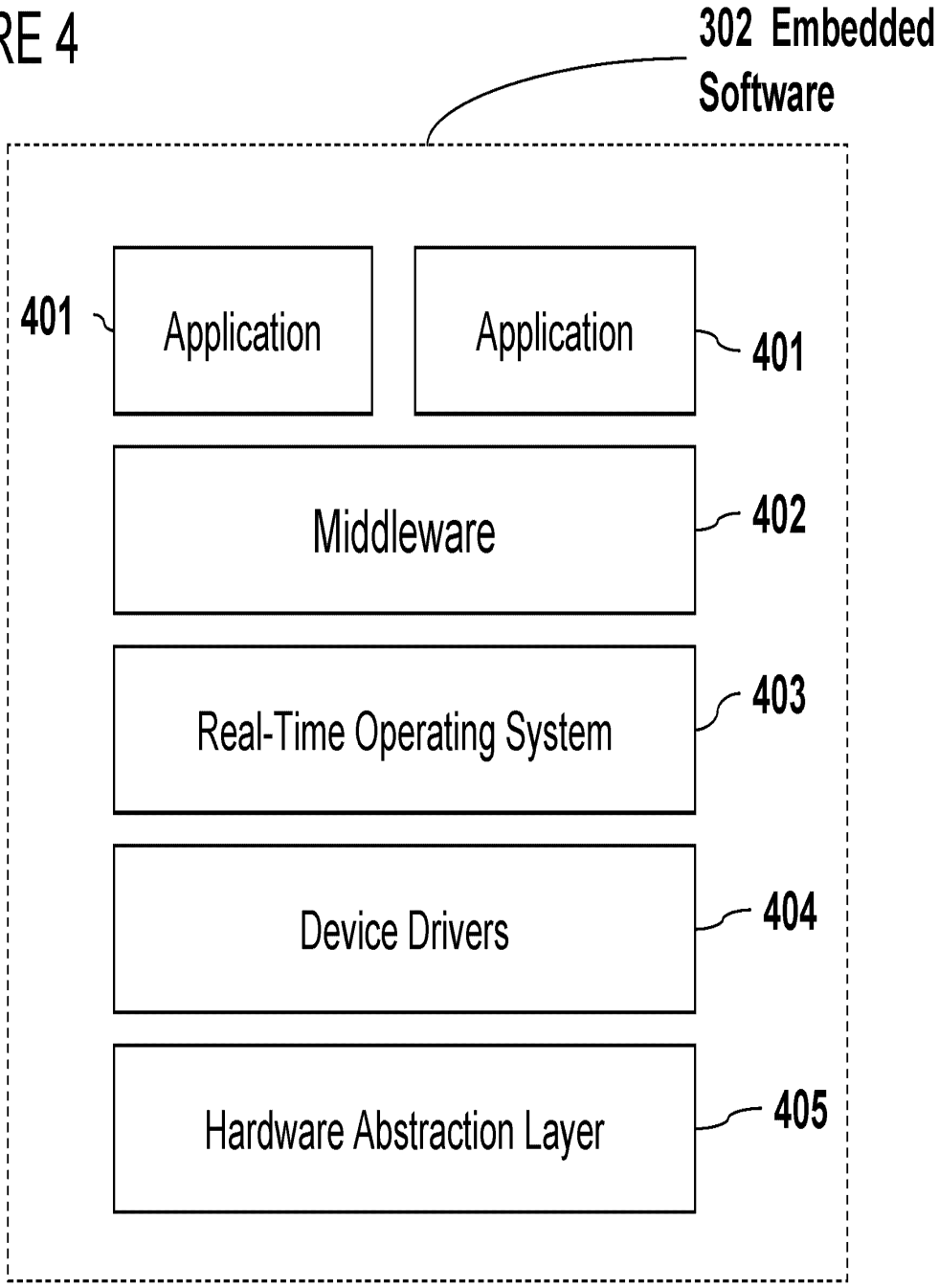

302 Embedded Software
401
Application
Application
401
Middleware
402
Real-Time Operating System
403
Device Drivers
404
Hardware Abstraction Layer
405

FIGURE 5

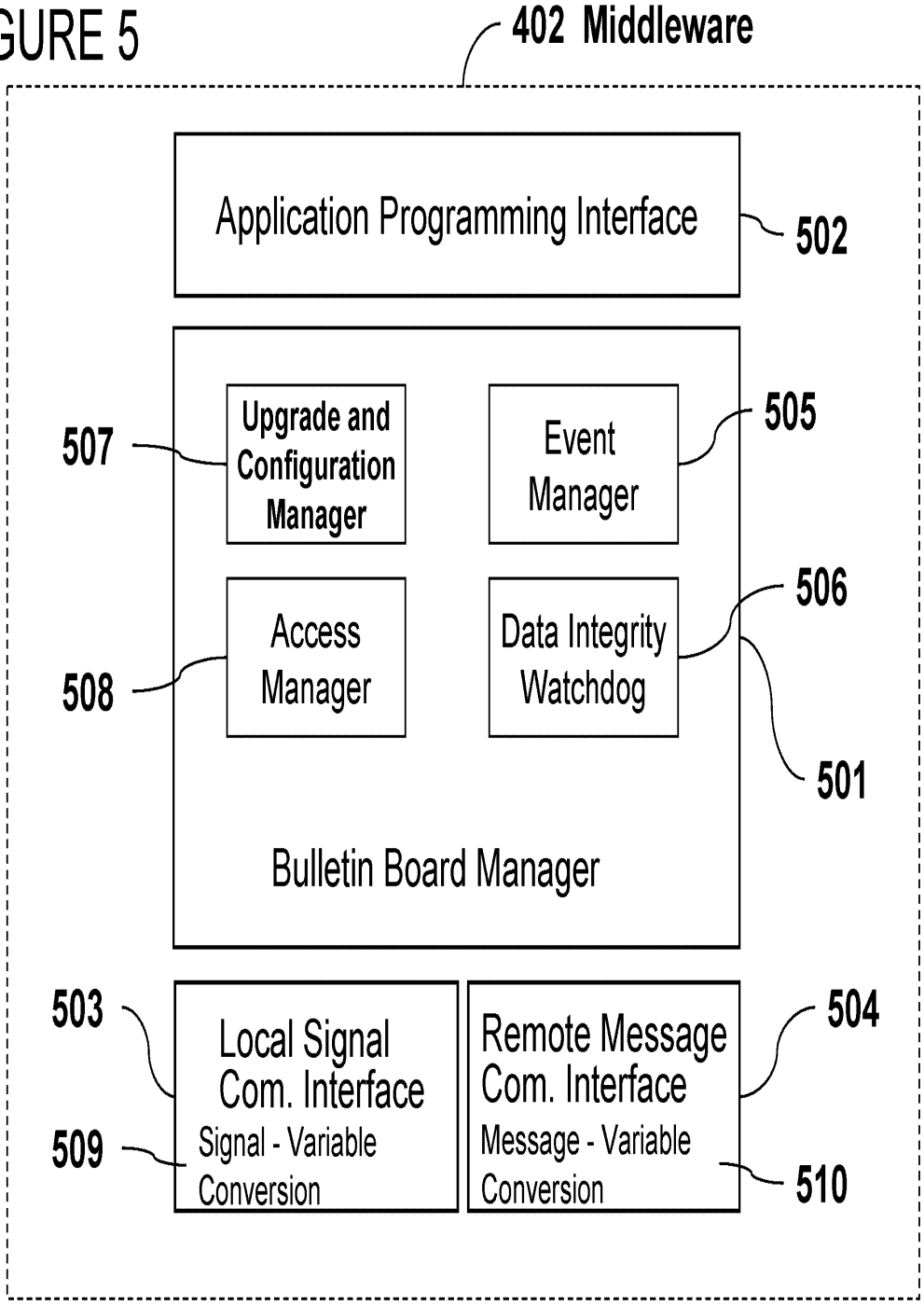

402 Middleware
Application Programming Interface
502
Upgrade and Configuration Manager
507
Event Manager
505
Access Manager
508
Data Integrity Watchdog
506
501
Bulletin Board Manager
503
Local Signal Com. Interface
509
Signal - Variable Conversion
Remote Message Com. Interface
504
Message - Variable Conversion
510

FIGURE 6

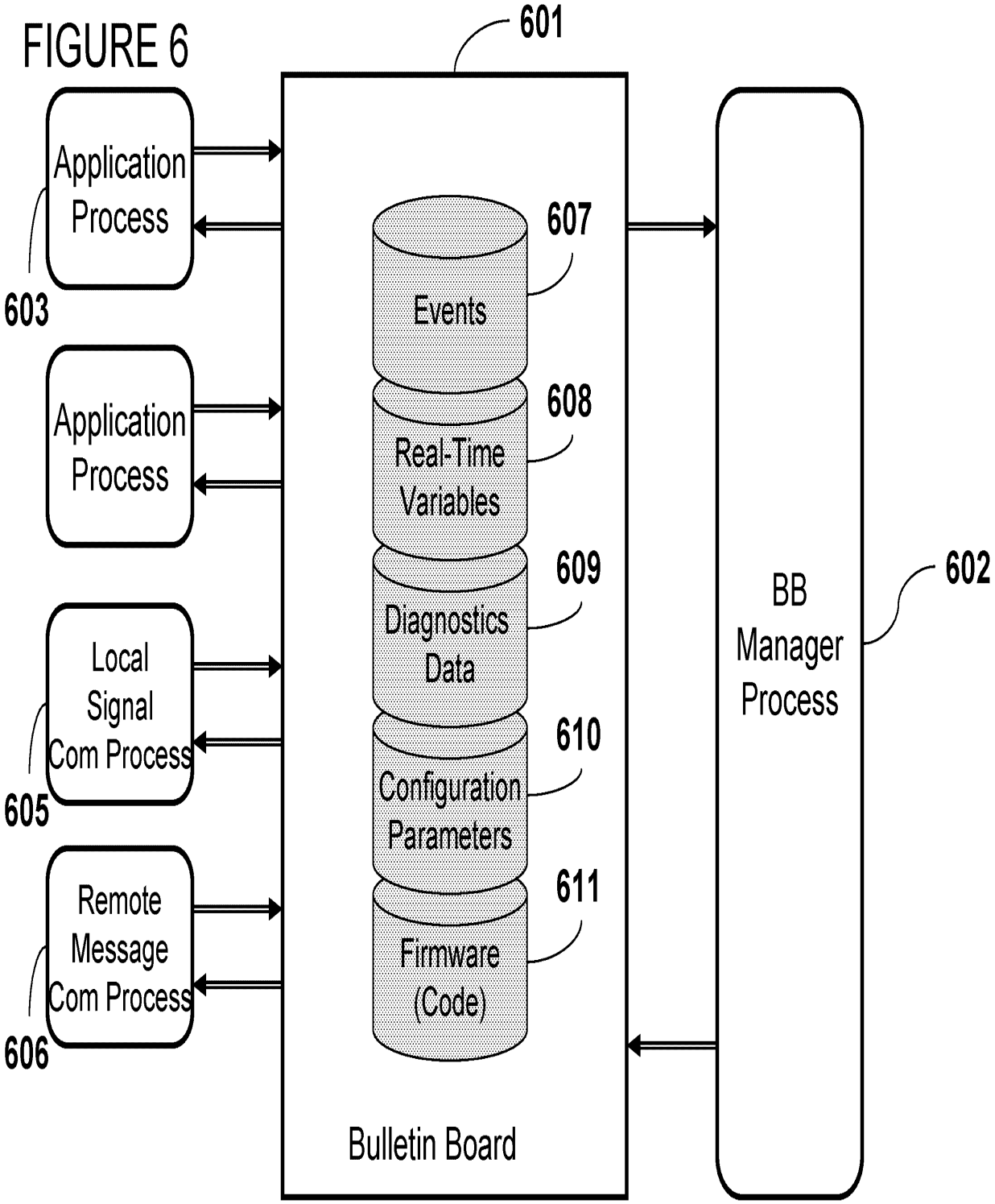

601
Application Process
603
Application Process
Local Signal Com Process
605
Remote Message Com Process
606
607
Events
608
Real-Time Variables
609
Diagnostics Data
610
Configuration Parameters
611
Firmware (Code)
Bulletin Board
BB Manager Process
602

FIGURE 7

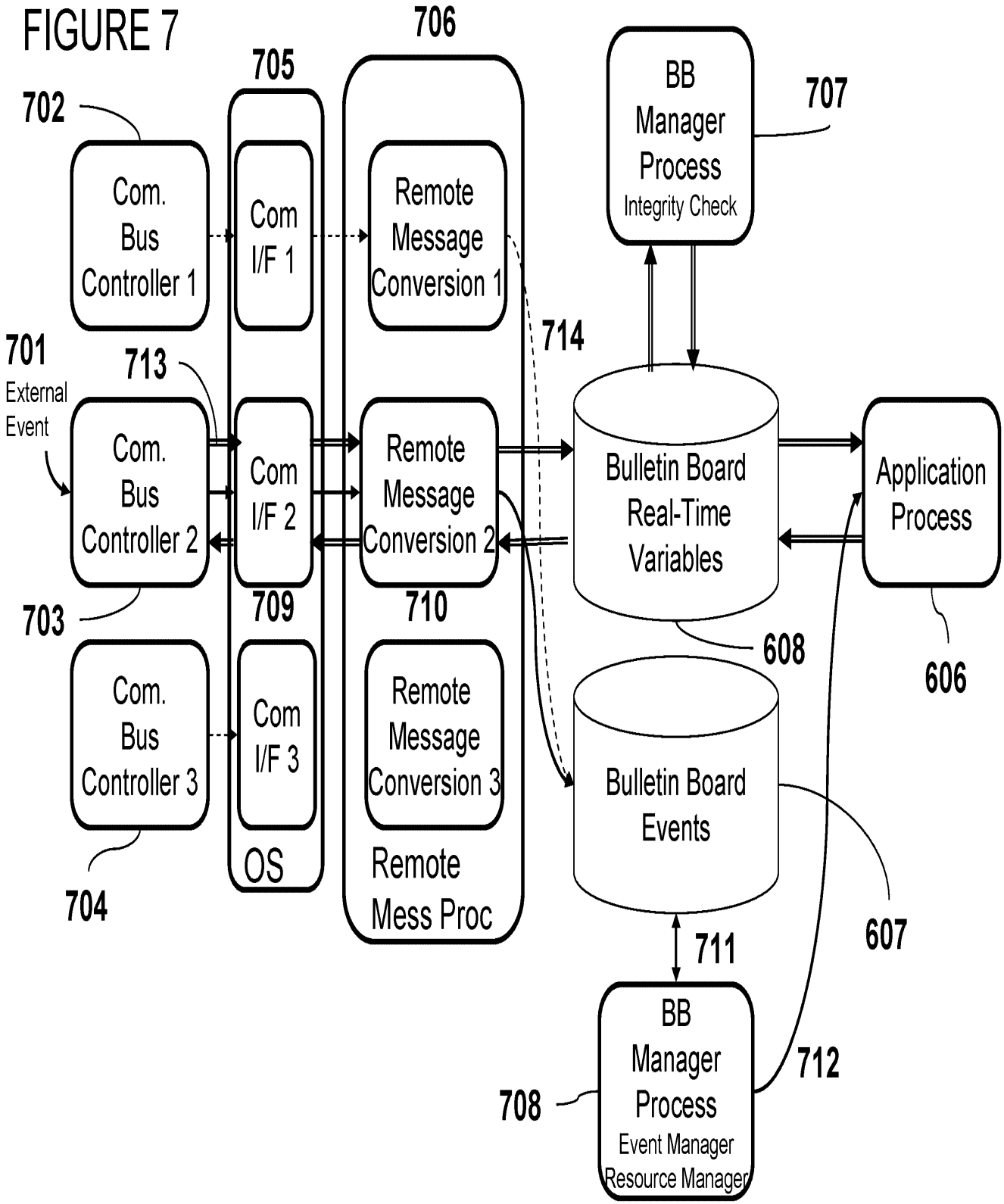

706
705
702
BB
Manager
Process
Integrity Check
707
Com.
Bus
Controller 1
Com
I/F 1
Remote
Message
Conversion 1
714
701
External
Event
713
Com.
Bus
Controller 2
Com
I/F 2
Remote
Message
Conversion 2
Bulletin Board
Real-Time
Variables
Application
Process
703
709
710
608
606
Com.
Bus
Controller 3
Com
I/F 3
Remote
Message
Conversion 3
Bulletin Board
Events
607
704
OS
Remote
Mess Proc
711
BB
Manager
Process
Event Manager
Resource Manager
712
708

FIGURE 8

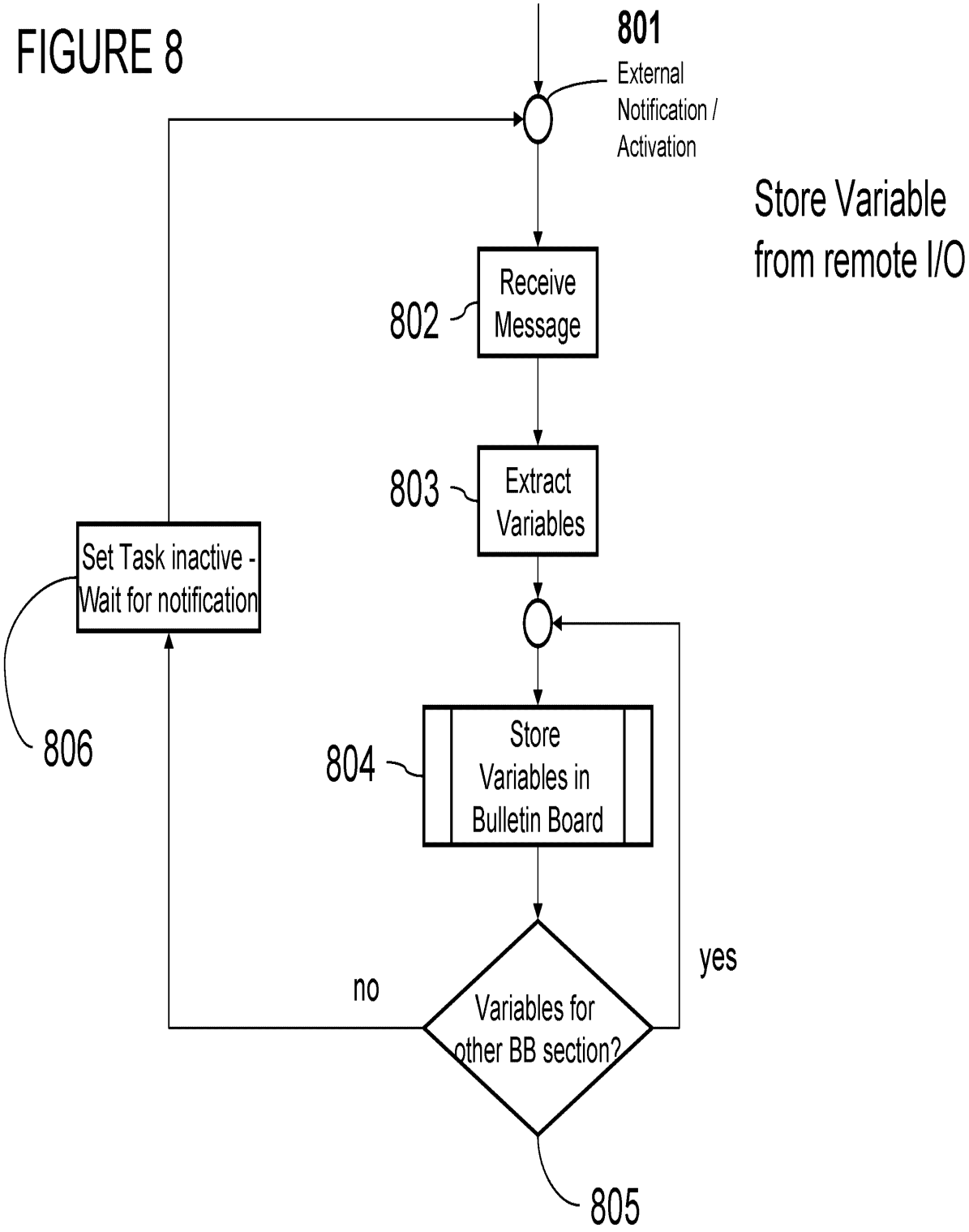

801
External Notification / Activation
Store Variable from remote I/O
Receive Message
802
Extract Variables
803
Set Task inactive - Wait for notification
806
Store Variables in Bulletin Board
804
Variables for other BB section?
no
yes
805

FIGURE 9

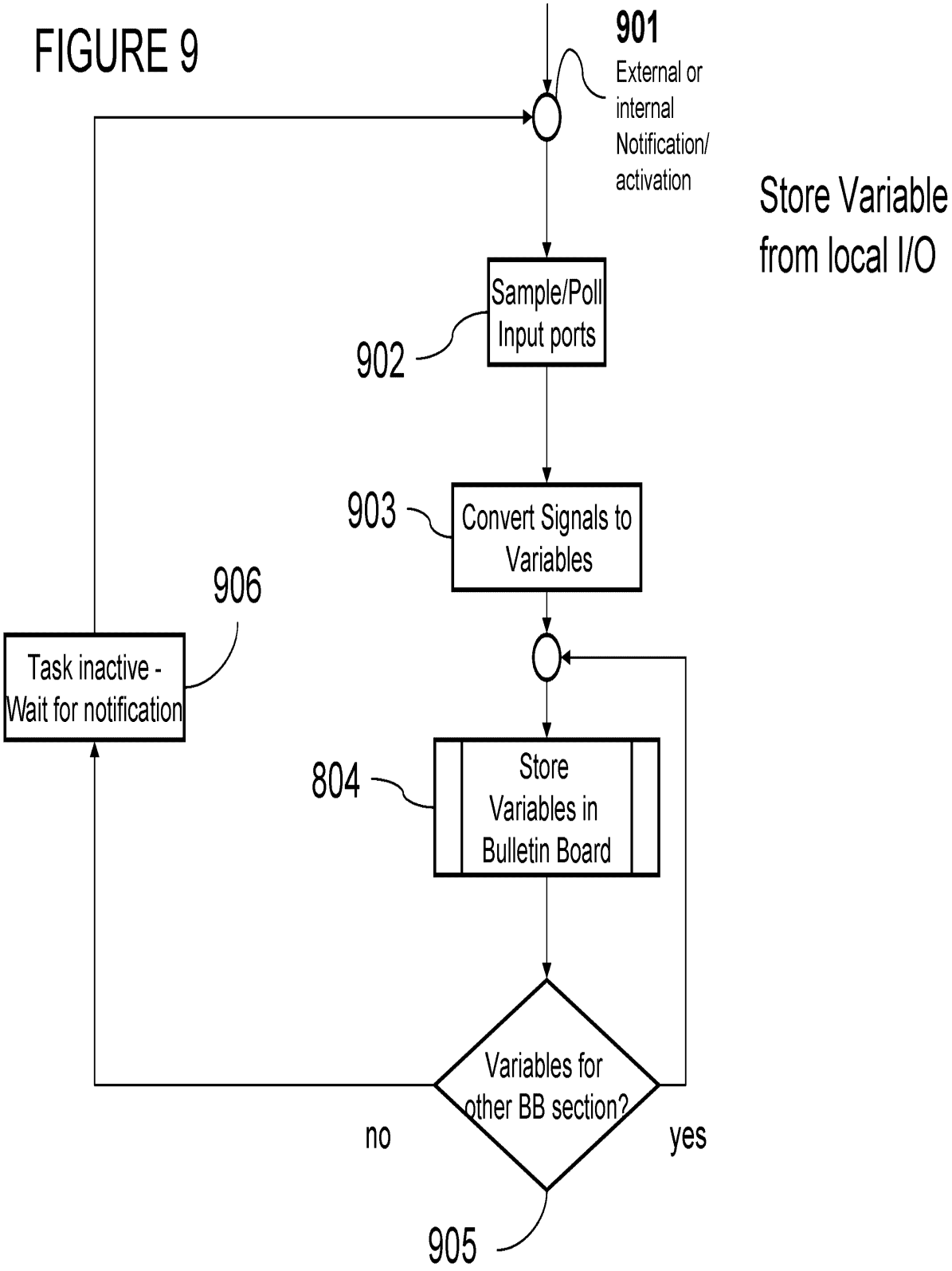

901
External or internal Notification/ activation
Store Variable from local I/O
Sample/Poll Input ports
902
903
Convert Signals to Variables
906
Task inactive - Wait for notification
804
Store Variables in Bulletin Board
Variables for other BB section?
no
yes
905

FIGURE 10

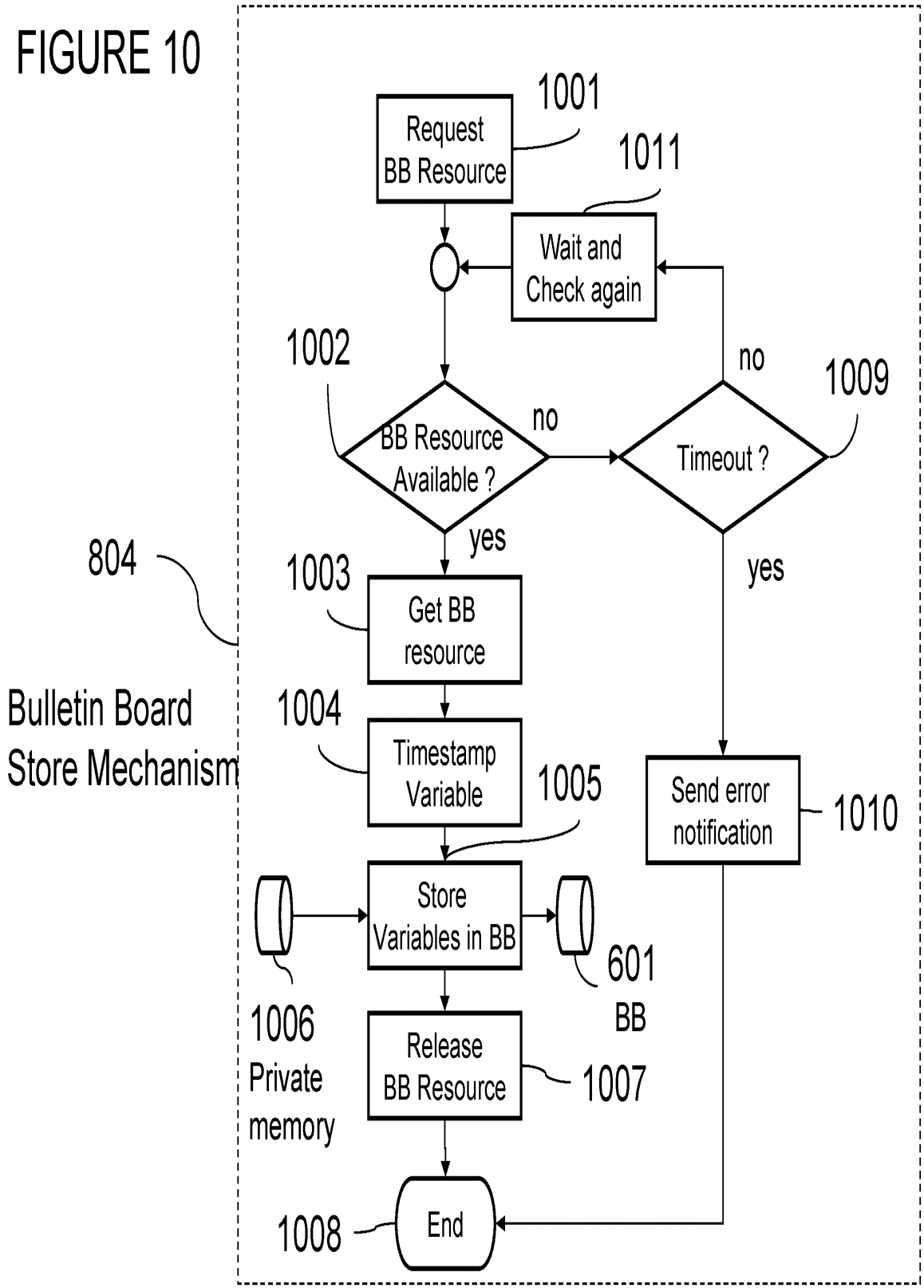

804
Bulletin Board
Store Mechanism
1001
Request
BB Resource
1011
Wait and
Check again
1002
BB Resource
Available ?
no
1009
Timeout ?
no
yes
yes
1003
Get BB
resource
1004
Timestamp
Variable
1005
Send error
notification
1010
Store
Variables in BB
601
BB
1006
Private
memory
Release
BB Resource
1007
1008
End

FIGURE 11

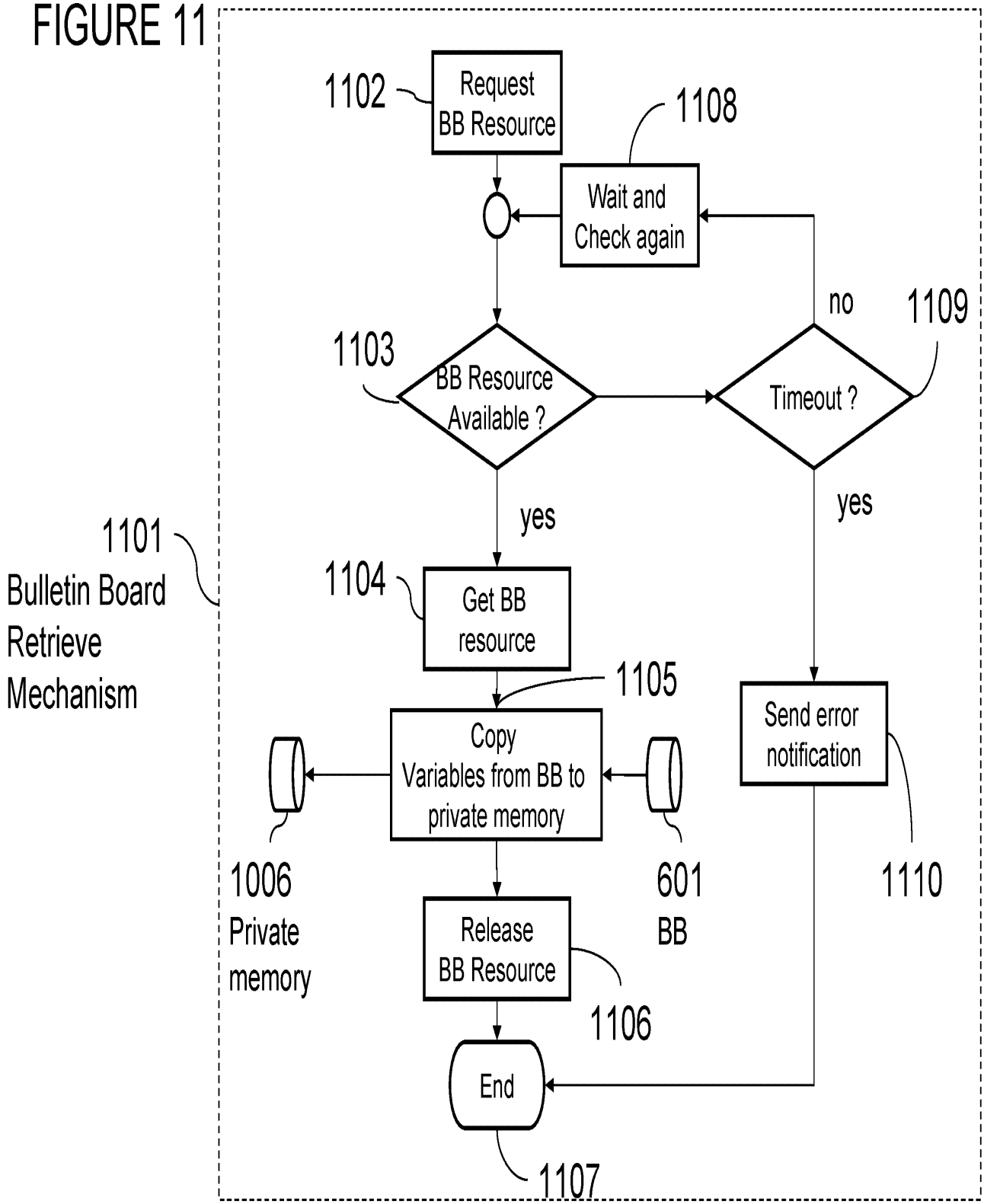

1101
Bulletin Board
Retrieve
Mechanism
1102
Request
BB Resource
1108
Wait and
Check again
1103
BB Resource
Available ?
no
1109
Timeout ?
yes
yes
1104
Get BB
resource
1105
Copy
Variables from BB to
private memory
Send error
notification
1006
Private
memory
601
BB
1110
Release
BB Resource
1106
End
1107

FIGURE 12

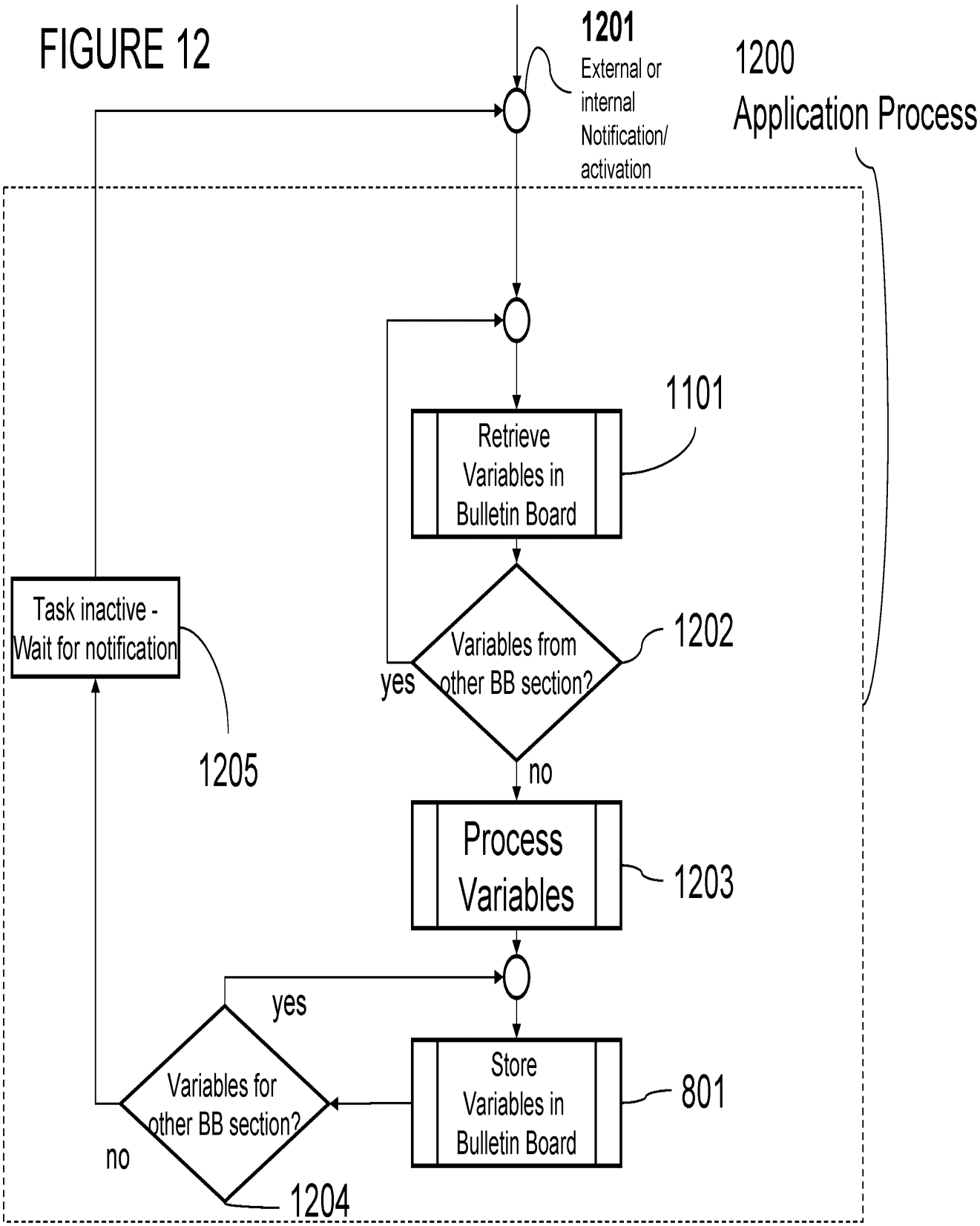

1201
External or internal Notification/ activation
1200
Application Process
1101
Retrieve Variables in Bulletin Board
Variables from other BB section?
1202
yes
no
Task inactive - Wait for notification
1205
Process Variables
1203
yes
Variables for other BB section?
no
1204
Store Variables in Bulletin Board
801

FIGURE 13

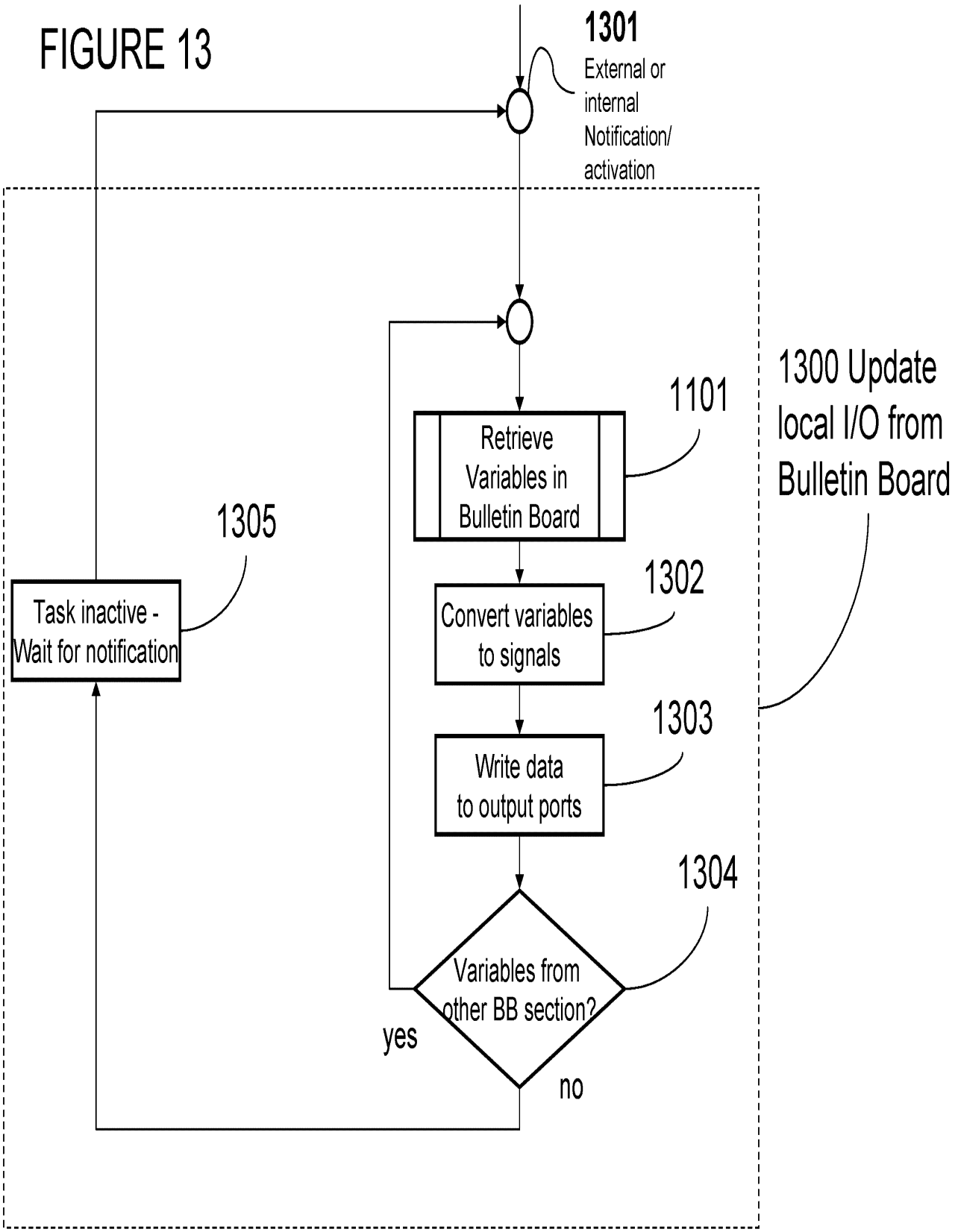

1301
External or internal Notification/ activation
1300 Update local I/O from Bulletin Board
1101
Retrieve Variables in Bulletin Board
1302
Convert variables to signals
1303
Write data to output ports
1304
Variables from other BB section?
yes
no
1305
Task inactive - Wait for notification

FIGURE 14

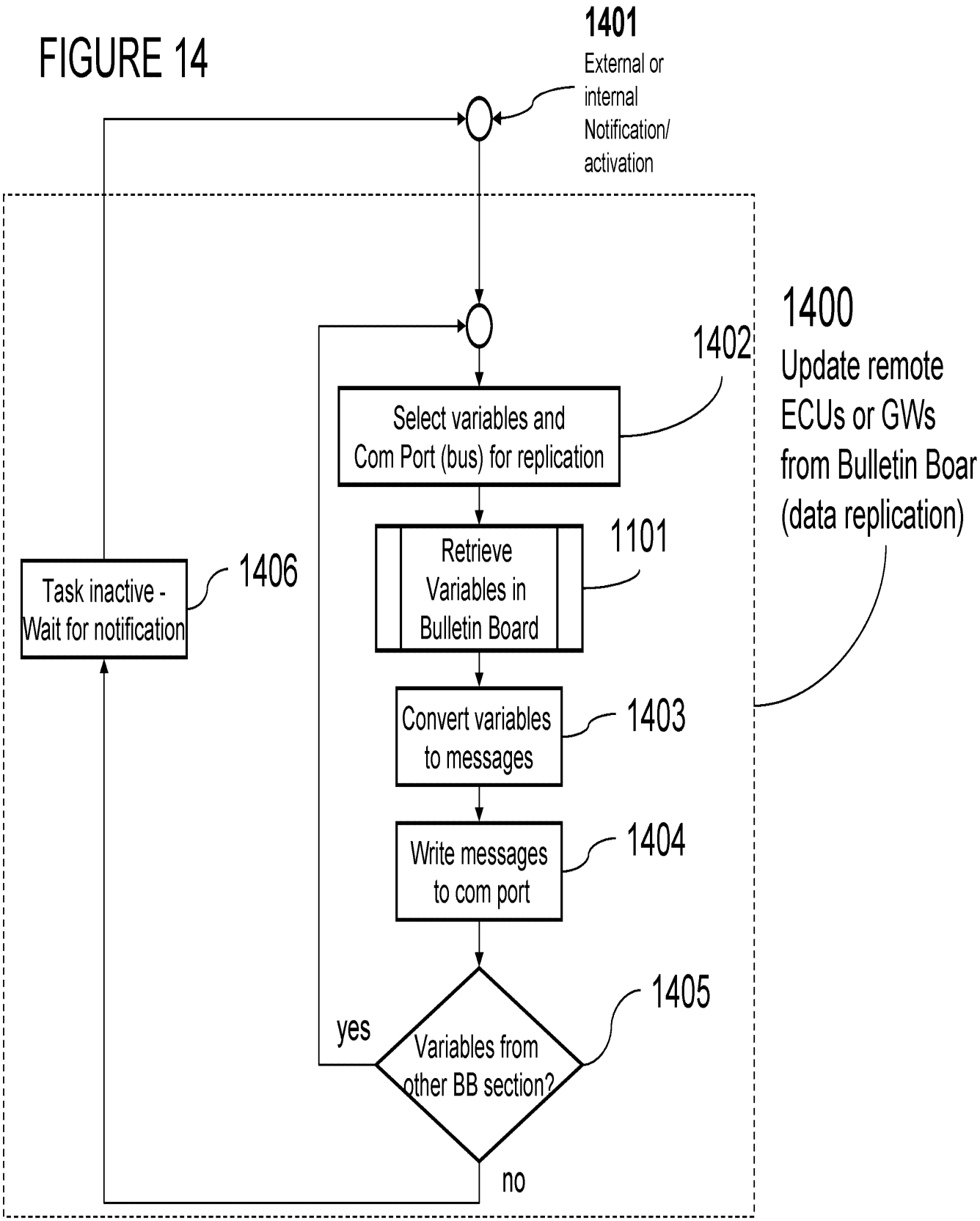

1401
External or internal Notification/ activation
1400
Update remote ECUs or GWs from Bulletin Boar (data replication)
1402
Select variables and Com Port (bus) for replication
1101
Retrieve Variables in Bulletin Board
1403
Convert variables to messages
1404
Write messages to com port
1405
Variables from other BB section?
yes
no
1406
Task inactive - Wait for notification

FIGURE 15

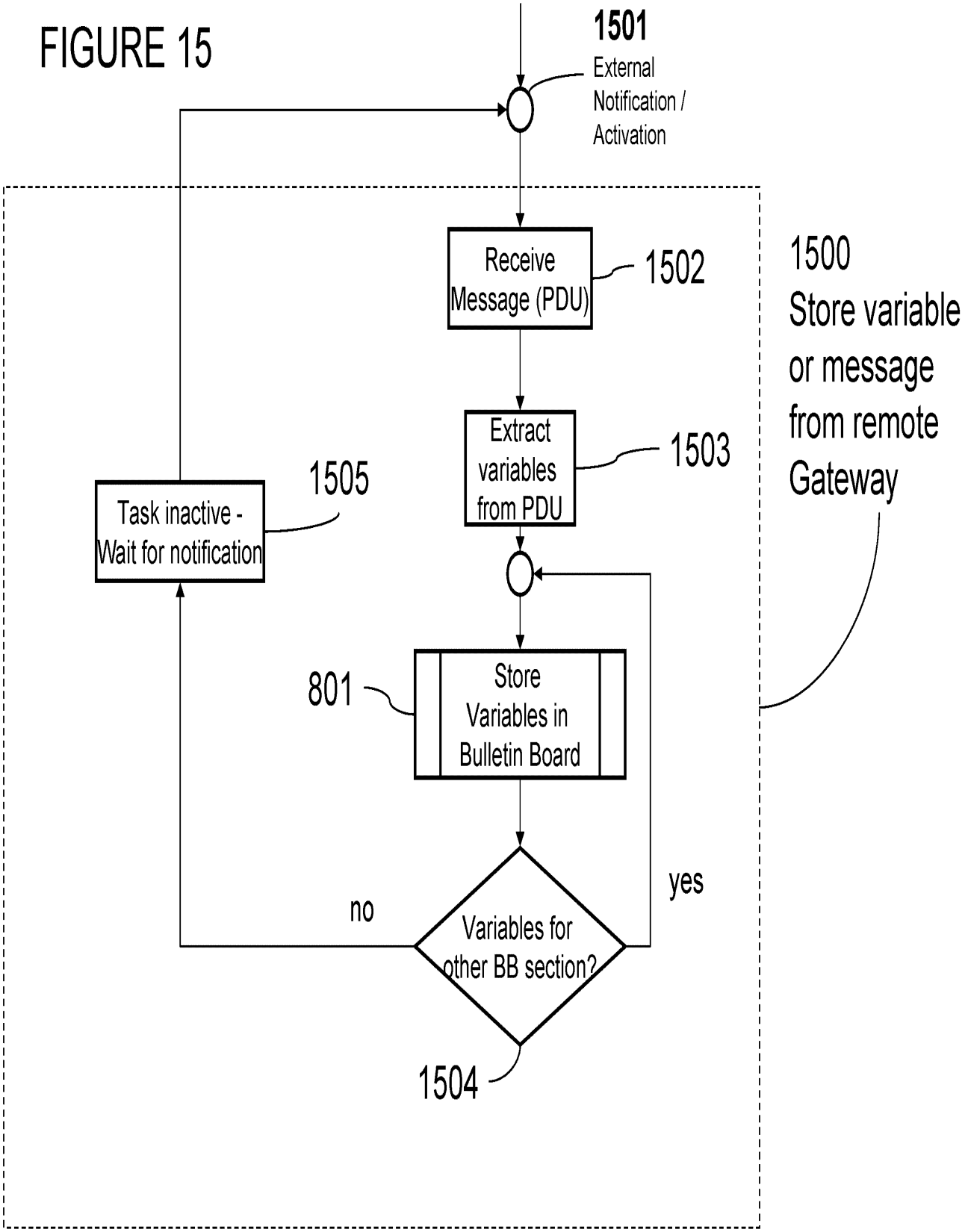

1501
External Notification / Activation
Receive Message (PDU)
1502
Extract variables from PDU
1503
Task inactive - Wait for notification
1505
801
Store Variables in Bulletin Board
Variables for other BB section?
yes
no
1504
1500
Store variable or message from remote Gateway

FIGURE 16

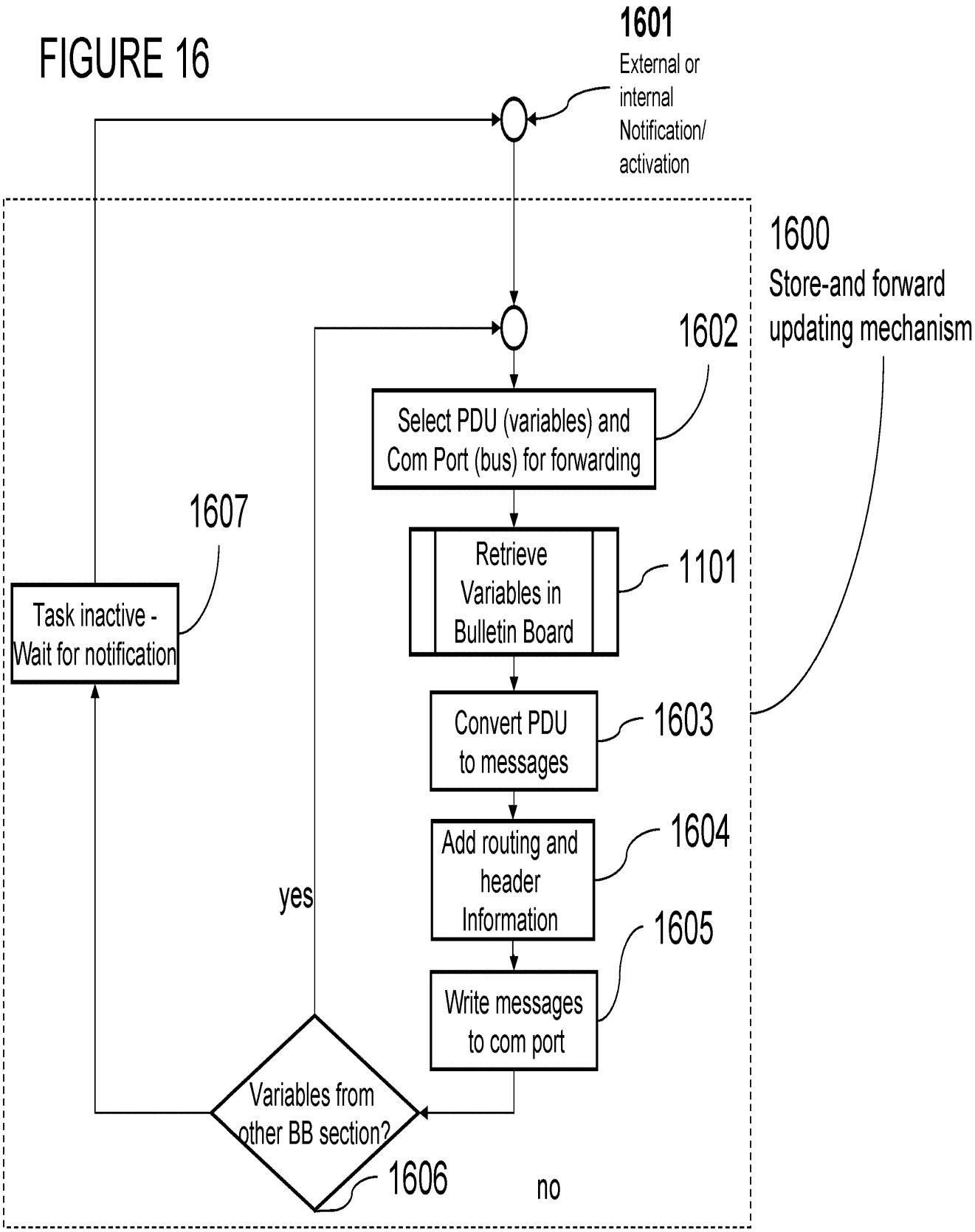
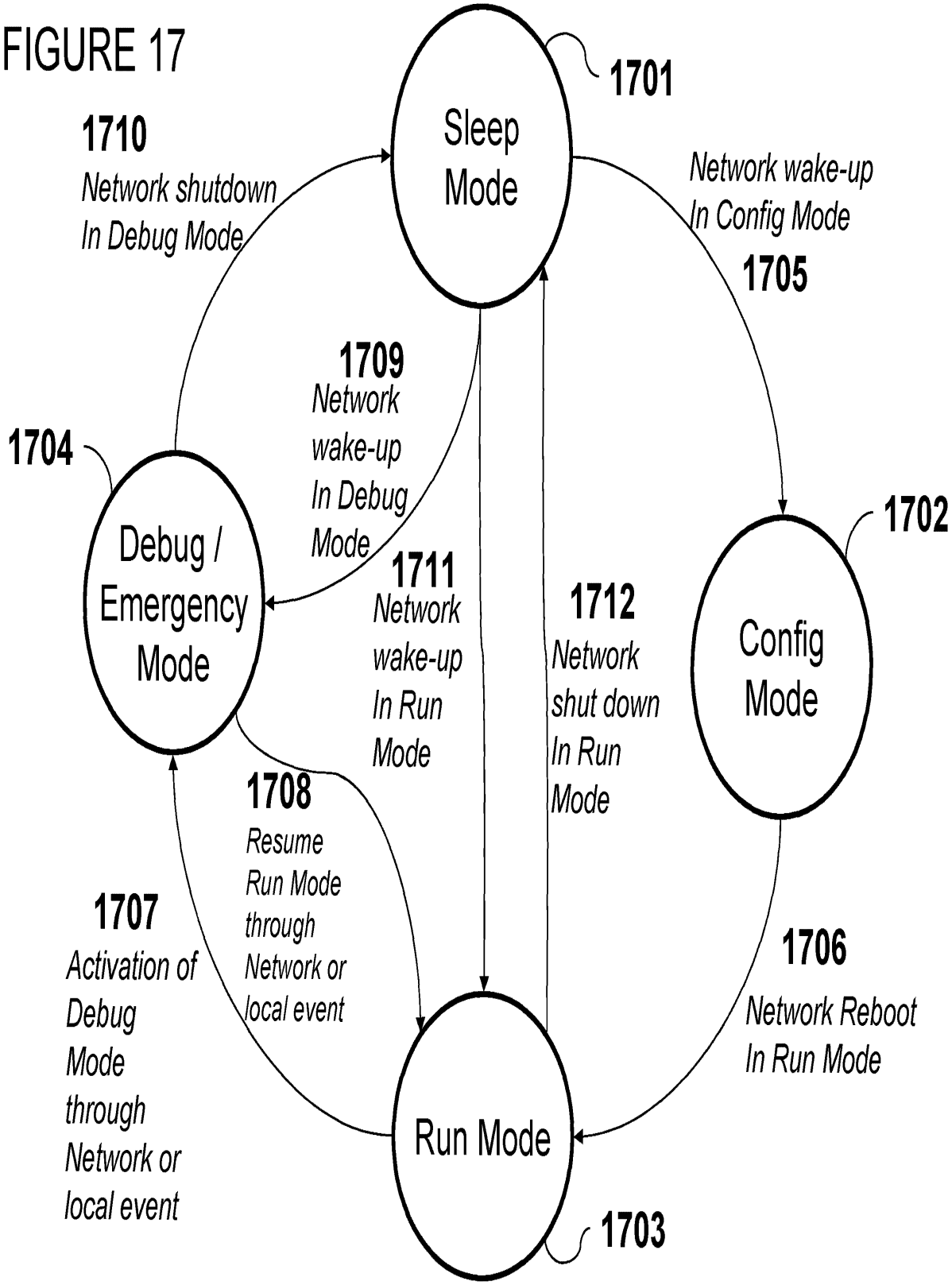

1601
External or internal Notification/ activation
1600
Store-and forward updating mechanism
1602
Select PDU (variables) and Com Port (bus) for forwarding
1607
Retrieve Variables in Bulletin Board
1101
Task inactive - Wait for notification
Convert PDU to messages
1603
Add routing and header Information
1604
yes
1605
Write messages to com port
Variables from other BB section?
1606
no

FIGURE 17


Sleep Mode
1701
1710
Network shutdown In Debug Mode
Network wake-up In Config Mode
1705
1709
Network wake-up In Debug Mode
1704
Debug / Emergency Mode
1711
Network wake-up In Run Mode
1712
Network shut down In Run Mode
Config Mode
1702
1708
Resume Run Mode through Network or local event
1707
Activation of Debug Mode through Network or local event
1706
Network Reboot In Run Mode
Run Mode
1703

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK

As the below named inventor, I hereby declare that:

This declaration is directed to:

- [■] The attached application, or
- [ ] United States application or PCT international application number _____ filed on _____.

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.

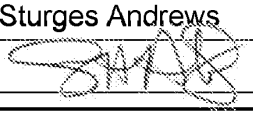
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LEGAL NAME OF INVENTOR

Inventor: Scott Sturges Andrews Date (Optional) :_____

Signature: 

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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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The information provided by you in this form will be subject to the following routine uses:

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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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.
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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.

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SHARING INFORMATION IN A DISTRIBUTED FRAMEWORK

As the below named inventor, I hereby declare that:

This declaration is directed to:

- [■] The attached application, or
- [ ] United States application or PCT international application number _____

filed on _____.

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.

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LEGAL NAME OF INVENTOR

Inventor: Axel Fuchs Date (Optional) :_____

Signature: _____

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

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Application Number: 16042159 Document Date: 07/23/2018

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