

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM729342

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT OF THE ENTIRE INTEREST AND THE GOODWILL		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
Crane Co.		05/18/2022	Corporation: DELAWARE
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	Crane Holdings, Co.		
<b>Street Address:</b>	100 First Stamford Place		
<b>City:</b>	Stamford		
<b>State/Country:</b>	CONNECTICUT		
<b>Postal Code:</b>	06902		
<b>Entity Type:</b>	Corporation: DELAWARE		
<b>PROPERTY NUMBERS Total: 11</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
<b>Serial Number:</b>	71266510	C	
<b>Serial Number:</b>	71307703	CRANE	
<b>Serial Number:</b>	73733265	CRANE	
<b>Serial Number:</b>	78519337	CRANE COMPOSITES	
<b>Serial Number:</b>	97327696	CRANE NEXT	
<b>Serial Number:</b>	97327693	CRANE NXT	
<b>Serial Number:</b>	97331977	CRANE NXT	
<b>Serial Number:</b>	97151344	FLOW OF FLUIDS	
<b>Serial Number:</b>	97151350	FLOW OF FLUIDS	
<b>Serial Number:</b>	74395472	MULTI-AXIS	
<b>Serial Number:</b>	73633559	P. L. PORTER CO.	
<b>CORRESPONDENCE DATA</b>			
<b>Fax Number:</b>	9726283616		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>			
<b>Phone:</b>	9726283600		
<b>Email:</b>	cranetm@munckwilson.com		
<b>Correspondent Name:</b>	Matthew S. Anderson		
<b>Address Line 1:</b>	12770 Coit Road		
<b>Address Line 2:</b>	Suite 600		

OP \$290.00 71266510

**Address Line 4:** Dallas, TEXAS 75251

**ATTORNEY DOCKET NUMBER:** CRNC01-00000125

**NAME OF SUBMITTER:** Matthew S. Anderson

**SIGNATURE:** /Matthew S. Anderson/

**DATE SIGNED:** 05/20/2022

**Total Attachments: 12**

source=Assignment - Crane Holdings Co#page1.tif  
source=Assignment - Crane Holdings Co#page2.tif  
source=Assignment - Crane Holdings Co#page3.tif  
source=Assignment - Crane Holdings Co#page4.tif  
source=Assignment - Crane Holdings Co#page5.tif  
source=Assignment - Crane Holdings Co#page6.tif  
source=Assignment - Crane Holdings Co#page7.tif  
source=Assignment - Crane Holdings Co#page8.tif  
source=Assignment - Crane Holdings Co#page9.tif  
source=Assignment - Crane Holdings Co#page10.tif  
source=Assignment - Crane Holdings Co#page11.tif  
source=Assignment - Crane Holdings Co#page12.tif

## ASSIGNMENT OF INTELLECTUAL PROPERTY

This Assignment of Intellectual Property (this "Assignment") is made and entered into as of May 18, 2022, ("Effective Date"), by and between Crane Co., a Delaware Corporation, with an address of 100 First Stamford Place, Stamford, Connecticut, 06902, United States of America ("Assignor") and Crane Holdings, Co., a Delaware Corporation with an address of 100 First Stamford Place, Stamford, Connecticut, 06902, United States of America ("Assignee") (each a "Party," and collectively, the "Parties").

**WHEREAS**, Assignor owns all right, title, and interest in and to certain Intellectual Property, including patents and patent applications, trademarks and service marks, both registered and unregistered, published and unpublished, copyrights, and Other Intellectual Property under statutory or common law worldwide;

**WHEREAS**, Assignee wishes to acquire from Assignor, and Assignor wishes to sell, transfer, convey, assign, and deliver to Assignee, all right, title, and interest in and to the Intellectual Property, together with all common law rights therein, along with the ongoing business and all goodwill of the business associated with and symbolized by the Trademarks.

**NOW, THEREFORE**, in consideration of Ten Dollars (USD \$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

### TRADEMARK ASSIGNMENTS

1. Assignor does hereby assign to Assignee the trademarks and/or service marks identified in Schedule A attached hereto and the applications and registrations therefor shown in the said Schedule A, and any other trademark rights owned by Assignor throughout the world, whether published or unpublished (the "Trademarks");
2. Assignor does hereby assign to Assignee all right, title, and interest in and to the Trademarks, including all applications and registrations for the Trademarks, and including the portion of the business to which the marks pertain, such business being ongoing and existing, together with the goodwill of the business symbolized by the Trademarks, and the right to sue for and collect all awards, proceeds, and compensation accruing for past infringements of the Trademarks.
3. Assignor will discontinue its business operations with respect to the Trademarks as of the Effective Date;
4. Assignee will continue the business, or portions thereof to which the Trademarks pertain, as of the Effective Date, and has a bona fide intent to use the Trademarks in commerce, whereby Assignee is the successor to the business of the Assignor, or portions thereof to which the Trademarks pertain;

5. This Intellectual Property Assignment is one of several related transactions being executed contemporaneously between Assignor and Assignee to effect the acquisition described herein;
6. Assignor does hereby sell, assign, convey, and transfer to Assignee, its successors, legal representatives, and assigns, all of Assignor's right, title, and interest in and to the Trademarks and all applications and registrations for the Trademarks, including the portion of the business to which the marks pertain, such business being ongoing and existing, together with the goodwill of the business symbolized by the Trademarks, and all claims, if any, which may have arisen thereunder prior to the Effective Date of this Assignment, and the right to recover for damages and profits and all other remedies for past, present, and future infringements of any of the Trademarks or any registrations and applications therefor as of the Effective Date;
7. Assignor hereby authorizes Assignee to record this Assignment with all government agencies or trademark registries; and,
8. Assignor shall at any time on and after the Effective Date, at the request of Assignee, execute and deliver to Assignee such additional documents, instruments, consents, conveyances, assignments, and other writings as may be reasonably required to assign, transfer, convey, or perfect the transfer of Assignor's right, title, and interest in and to the Trademarks to Assignee or otherwise to carry out, confirm, or evidence the transactions contemplated by this Assignment.

#### PATENT ASSIGNMENTS

1. Assignor desires to assign to Assignee the patents, patent applications, and/or industrial designs or other registrations identified in Schedule B attached hereto, including all related patents, applications, divisional applications, extensions, designations, and validated patents to those identified in Schedule B, and any other patent rights owned by Assignor throughout the world, including any published or unpublished patents and patent applications (the "Patents");
2. Assignor does hereby sell, assign, and transfer unto Assignee, its successors, assigns, and legal representatives, the full and exclusive right to the Patents and the entire right, title, and interest in and to any and all Patents which may be granted therefor and/or therefrom, to all nonprovisional applications, divisions, reissues, substitutions, continuations, continuations-in-part, extensions, and national validations of said Patents, and the right to recover for damages and profits and all other remedies in law and equity for past, present, and future infringements of any of the Patents. Assignor hereby authorizes and requests the United States Commissioner of Patents and Trademarks, and respective Patent and Intellectual Property Offices worldwide, to issue all patents for any currently pending applications identified on Schedule B, or patents resulting therefrom, insofar as Assignor's interests are concerned, to Assignee, of the entire right, title, and interest in and to the same, for its sole use and benefit; and

for the use and benefit of its legal representatives, to the full end of the term for which said Patent(s) may be granted, as fully and entirely as the same would have been held by the Assignor had this Assignment not been made.

3. Assignor also assigns to Assignee, its successors, assigns and legal representatives, the full and exclusive right, title, and interest to the inventions disclosed in said Patents throughout the world, and all other inventions owned by the Assignor, including the right to file applications and obtain patents, utility models, industrial models, and designs for the inventions in the Assignee's own name throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of the inventions and all rights to register the inventions in appropriate registries, all foreign rights arising from pre-grant publication of the Patents;
4. Assignor agrees to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee, its successors, assigns and legal representatives.
5. Assignor agrees to communicate to Assignee, its successors, assigns and/or legal representatives, any known facts respecting any improvements, and, at the expense of Assignee, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in Assignee and to aid Assignee, its successors, assigns and legal representatives to obtain and enforce proper protection for the Properties in all countries.
6. Assignor hereby authorizes Assignee to record this Assignment with the applicable governmental authority, including, without limitation, the United States Patent and Trademark Office and respective Patent and Intellectual Property Offices worldwide, with respect to the Properties. Assignor shall deliver or cause to be delivered to Assignee all such additional agreements, certificates, instruments, or documents as Assignee may reasonably request or as may be necessary to more fully assign and convey to and vest in Assignee the rights herein assigned.

#### OTHER INTELLECTUAL PROPERTY ASSIGNMENTS

1. Assignor desires to assign to Assignee all other Intellectual Property, whether or not identified in Schedule A or Schedule B attached hereto, including, without limitation, all registered or unregistered rights to inventions, patents, trademarks, service marks, trade dress, copyrights, trade secrets, industrial designs, utility models, database rights, maskworks, moral rights, Internet domain names and registrations, and social media accounts and usernames owned by Assignor throughout the world (the "Other Intellectual Property");
2. Assignor does hereby sell, assign, and transfer unto Assignee, its successors, assigns, and legal representatives, the full and exclusive right to the Other Intellectual Property throughout the world, all rights to register, protect, and enforce the Other Intellectual

Property, and all rights to damages and injunctive remedies arising from infringement of the Other Intellectual Property.

3. Assignor agrees to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in the Other Intellectual Property in Assignee, its successors, assigns and legal representatives.

Each person signing this Assignment represents and warrants that he or she is duly authorized and has legal capacity to execute and deliver this Assignment. Each party represents and warrants to the other that the execution and delivery of the Assignment and the performance of such party's obligations hereunder have been duly authorized, and that the Assignment is a valid and legal agreement binding on such party and enforceable in accordance with its terms.

This Agreement may be executed in multiple counterparts, each of which is considered an original and shall be binding upon the Party executing the same, but all of such counterparts shall constitute the same agreement.

This Assignment of Intellectual Property shall be binding on and inure to the benefit of the respective heirs, successors, and assigns of the Parties.

*[Signature Page Follows]*

IN WITNESS WHEREOF, Assignor and Assignee have caused this Assignment to be effective as of the Effective Date written above.

CRANE Co.

CRANE HOLDINGS, Co.

By:

*Matthew D. Michael*

By:

*Matthew D. Michael*

Name: Matthew D. Michael

Name: Matthew D. Michael

Title: Assistant Secretary

Title: Assistant Secretary

STATE OF

*Connecticut*

COUNTY OF

*Fairfield*

On *May 18, 2022*, before me, *Lenora Rowser*, Notary Public, personally appeared *Matthew D. Michael*, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity as *Assistant Secretary* of *Crane Co. and Crane Holdings Co.*, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

IN WITNESS THEREOF, I hereunto set my hand and official seal.

*Lenora Rowser*  
Notary Public

My commission expires:


LENORA ROWSER

NOTARY PUBLIC


State of Connecticut

MY COMMISSION EXPIRES DEC. 31, 2024

Schedule A

<u>Trademark</u>	<u>Jurisdiction</u>	<u>Application No.</u>	<u>Registration No.</u>	<u>Classes</u>
CRANE	Argentina	3314965	2685121	7
CRANE	Argentina	3314966	2679820	9
CRANE NXT	Argentina	4123785		9
CRANE	Australia	545934	545934	7
CRANE	Australia	1170999	1170999	7, 11
CRANE NXT	Australia	2260211		9, 16, 42
CRANE	Benelux	573352	96014	7, 9, 11
CRANE	Bermuda	785	785	5
CRANE	Bermuda	785	785	13
CRANE	Brazil	820609463	820609463	7
CRANE	Brazil	820609455	820609455	7
CRANE	Brazil	002397790	002397790	19
CRANE	Brazil	820609471	820609471	37
CRANE NXT	Brazil	926114484		9
CRANE NXT	Brazil	926368591		16
CRANE NXT	Brazil	926369261		17
DEMING	Brazil	823588742	823588742	6
CRANE	Bulgaria	1994027769N	25347	7
	Canada	1056457	TMA558636	1
CONQUEST	Canada	0799740	TMA470172	1
CRANE COMPOSITES	Canada	1247685	TMA710054	1
CRANE NXT	Canada	2176618		7, 9, 42
DEMING	Canada	0250838	TMA127365	1
MULTI-AXIS	Canada	0732671	TMA456919	1
CRANE	Chile	1009464	975519	6, 7, 9
CRANE	Chile	370237	906242	11
CRANE NXT	Chile	1498728		7, 9
DEMING	Chile	920197	904486	7
CRANE	China	586400	586400	7
CRANE	China	960077335	1090486	9
CRANE	China	586084	586084	11
CRANE COMPOSITES	China	5210298	5210298	17
CRANE COMPOSITES	China	21567352	21567352	17





<u>Trademark</u>	<u>Jurisdiction</u>	<u>Application No.</u>	<u>Registration No.</u>	<u>Classes</u>
CRANE COMPOSITES	China	5210299	5210299	19
CRANE ELECTRONICS	China	9120313	9120313	9
CRANE ELECTRONICS	China	9120312	9120312	37
克瑞电子	China	9120310	9120310	9
克瑞电子	China	9120309	9120309	37
CRANE NXT	China			7
CRANE NXT	China			9
CRANE NXT	China			16
CRANE NXT	China			17
CRANE NXT	China	64108972		7
CRANE NXT	China	64102901		9
CRANE NXT	China	64096988		16
CRANE NXT	China	64099432		17
CRANE NXT	China	64116993		40
CRANE NXT	China	64096209		42
CRANE NXT	China	64109830		45
CRANE	Colombia	92 164100	21062.2	7
CRANE NXT	Colombia	SD2022/0034473		9, 17, 40, 45
DEMING	Colombia	921473317	25.872	7
CRANE NXT	Costa Rica	2022-002954		9
CRANE	Denmark	VA 1933 00571	VR193300552	6, 7, 11
CRANE	Dominican Republic	0001-2530	2530	6
CRANE NXT	Ecuador	2022-26371		9
CRANE	European Union	001012939	001012939	6, 7, 9, 12, 17, 19
CRANE COMPOSITES	European Union	004885299	004885299	12, 17, 19
CRANE ELECTRONICS	European Union	009671819	009671819	9, 37, 40
CRANE NXT	European Union	018687061		7, 9, 11, 16, 17, 36, 37, 40, 42, 45
FLOW OF FLUIDS	European Union	018616762		9, 16, 41, 42
 FLOW OF FLUIDS	European Union	018616763	018616763	9, 16, 41, 42

<b>Trademark</b>	<b>Jurisdiction</b>	<b>Application No.</b>	<b>Registration No.</b>	<b>Classes</b>
CRANE	France	1661722	1661722	6, 7, 11
CRANE	France	1581214	1581214	9, 11, 19
CRANE	French Polynesia	1661722	1661722	6, 7, 11
CRANE	French Polynesia	1581214	1581214	9, 11, 19
CRANE NXT	Georgia	117305/3		9
CRANE	Greece	F148574	F148574	6, 7, 9, 11, 19, 37
CRANE	Guatemala	1922-09005	1893	6
CRANE	Guatemala	1922-09004	1893	11
CRANE NXT	Hong Kong	305922892		9, 16, 42
CRANE	India	152559	152559	6
CRANE	India	243461	243461	6
CRANE	India	243462	243462	7
CRANE	India	517981	517981	7
CRANE	India	517980	517980	9
CRANE	India	517982	517982	11
CRANE	India	517979	517979	19
CRANE NXT	India	5392019		9
CRANE	Indonesia	R002011011900	IDM000106726	9
CRANE	Indonesia	R002013000780	IDM000391247	6
CRANE	Indonesia	R002013000781	IDM000391248	11
CRANE NXT	Indonesia	DID2022029975		9
CRANE NXT	Israel	351246		9
C	Italy	362019000144328	362019000144328	6, 7
CRANE	Italy	362019000138653	362019000138653	6, 7, 11
CRANE COMPOSITES	Jamaica	MAM0001049419	M0001049419	12, 17, 19
CRANE	Japan	1995-053310	4475155	6
CRANE	Japan	1957-019285	0580311	6, 7
CRANE	Japan	1989-143534	2721924	12
CRANE	Japan	1989-131707	2644798	19
CRANE NXT	Japan	2022-048382		7, 9, 16, 17, 42
CRANE NXT	Kazakhstan	108002		9
CRANE	Kosovo	6954a2008	37592011	6
CRANE COMPOSITES	Kuwait	2018/0007265	199508	19
CRANE NXT	Kuwait	2022/0002988		9
CRANE NXT	Malaysia	TM2022008484		9
CRANE	Mexico	697147	967408	7

<u>Trademark</u>	<u>Jurisdiction</u>	<u>Application No.</u>	<u>Registration No.</u>	<u>Classes</u>
CRANE	Mexico	192056	274884	21
CRANE	Mexico	192061	276255	23
CRANE COMPOSITES	Mexico	922612	1037297	19
CRANE NXT	Mexico	2723493		9
CRANE	Montenegro	Ž-1933-52	10172	6, 7
CRANE NXT	Morocco	239583		9, 16, 42
CRANE	New Zealand	196539	196539	7
CRANE	New Zealand	196540	196540	9
CRANE	New Zealand	196541	196541	11
CRANE	New Zealand	196542	196542	19
CRANE NXT	New Zealand	1206850		9
CRANE NXT	Nigeria	F/TM/O/2022/63376		9
CRANE NXT	Norway	202204821		7, 9, 16, 42
CRANE	Panama	3824-01	3728	11
CRANE NXT	Panama	29535101		9
CRANE	Peru	234879-2005	P00108279	11
CRANE	Peru	248225-2005	P00111445	7
CRANE	Peru	230240-2005	P00117229	6
CRANE	Peru	580275-2014	PI0023529	7
CRANE NXT	Peru	944480-2022		9
CRANE	Philippines	4-1989-419478	61015	7, 9, 11, 19
CRANE NXT	Philippines	4-2022-508018		9, 17
CRANE	Puerto Rico	7691	18853	7
CRANE	Puerto Rico	7689	18851	13
CRANE COMPOSITES	Qatar	127016	127016	19
CRANE	South Korea	40-1989-0025991	40-0213596	6
CRANE	South Korea	40-1989-0025993	40-0202192	9
CRANE	South Korea	40-1989-0025992	40-0214389	19
CRANE ELECTRONICS	South Korea	45-2011-0000263	45-0041527	9
CRANE ELECTRONICS	South Korea	45-2011-0004111	45-0038651	9, 37, 40, 42
CRANE NXT	South Korea	40-2022-0061153		9, 16, 17, 42
CRANE	Romania	032049	024168	6, 11, 20
CRANE	Russian Federation	116095	089674	6, 7, 9, 11, 12, 19
CRANE COMPOSITES	Saudi Arabia	165397	1440006754	19

<u>Trademark</u>	<u>Jurisdiction</u>	<u>Application No.</u>	<u>Registration No.</u>	<u>Classes</u>
CRANE NXT	Saudi Arabia	348008		9
CRANE	Serbia	F 19330052	8023	6, 7
CRANE	Singapore	T9512216B	T9512216B	7
CRANE	Singapore	T8907466F	T8907466F	9
CRANE	Singapore	T8907467D	T8907467D	11
CRANE	Singapore	T8907468B	T8907468B	19
CRANE NXT	Singapore	40202207120P		9
CRANE	South Africa	B1967/00087	B1967/00087	6
CRANE	South Africa	B1967/00088	B1967/00088	7
CRANE NXT	South Africa	2022/10660		9
CRANE	Spain	M0095496	M0095496	6, 9, 11, 20
CRANE	Sri Lanka	58395	58395	9
CRANE	Switzerland	07700/1989	376692	6, 7, 9, 11, 20, 21
CRANE NXT	Switzerland	04811/2022		9, 16, 17, 40, 42, 45
CRANE	Taiwan	069004506	00184630	9
CRANE ELECTRONICS	Taiwan	100007134	01521062	9, 37, 40, 42
CRANE NXT	Taiwan	111022684		9
CRANE NXT	Tanzania			9
CRANE	Thailand	445640	KOR133703	7
CRANE NXT	Thailand	220114730		7, 9
CRANE NXT	Ukraine	m202204598		9, 16, 17, 42
CRANE COMPOSITES	United Arab Emirates	300805	300805	19
CRANE NXT	United Arab Emirates	374009		9
AST	United Kingdom	UK00003392172	UK00003392172	16, 40
CRANE	United Kingdom	UK00901012939	UK00901012939	6, 7, 9, 12, 17, 19
CRANE COMPOSITES	United Kingdom	UK00904885299	UK00904885299	12, 17, 19
CRANE CURRENCY	United Kingdom	UK00003392287	UK00003392287	9, 16, 17, 36, 40, 42
CRANE ELECTRONICS	United Kingdom	UK00002568918	UK00002568918	9, 37, 40, 42
CRANE ELECTRONICS	United Kingdom	UK00909671819	UK00909671819	9, 37, 40
CRANE NXT	United Kingdom	UK00003774436		7, 9, 11, 16, 17, 36, 37, 40, 42, 45

<u>Trademark</u>	<u>Jurisdiction</u>	<u>Application No.</u>	<u>Registration No.</u>	<u>Classes</u>
FLOW OF FLUIDS	United Kingdom	UK00003730612	UK00003730612	9, 16, 41, 42
 FLOW OF FLUIDS	United Kingdom	UK00003730626	UK00003730626	9, 16, 41, 42
MOTION	United Kingdom	UK00003392306	UK00003392306	16, 17
RAPID	United Kingdom	UK00003392324	UK00003392324	9, 16, 17
C	United States	71266510	0258122	6
CRANE	United States	71307703	0293974	6, 7, 11, 17, 20, 21
CRANE	United States	73733265	1663928	6, 7, 9, 11, 12, 13, 19, 37, 39
CRANE COMPOSITES	United States	78519337	3551812	12, 19
CRANE NEXT	United States	97327696		7, 9, 11, 16, 17, 35, 36, 37, 40, 42, 45
CRANE NXT	United States	97327693		7, 9, 11, 16, 17, 35, 36, 37, 40, 42, 45
<b>CRANE NXT</b>	United States	97331977		7, 9, 11, 16, 17, 35, 36, 37, 40, 42, 45
FLOW OF FLUIDS	United States	97151344		9, 16, 41, 42
 FLOW OF FLUIDS	United States	97151350		9, 16, 41, 42
MULTI-AXIS	United States	74395472	1872208	6
P.L. PORTER CO.	United States	73633559	1456111	6
CRANE	Uruguay	473.044	473.044	7
CRANE	Venezuela	1988-006501	147488	6
CRANE	Vietnam	4-2012-13217	40358505	6
CRANE NXT	Vietnam	4-2022-17602		9

Schedule B

<u>Jurisdiction</u>	<u>Application No.</u>	<u>Publication No.</u>	<u>Patent No.</u>
Brazil	BR112021021208A	BR112021021208A2	
	BR 112021021208-6	BR 112021021208-6A2	
China	CN202080031525A	CN114270407A	
	202080031525.5		
European Patent Office	EP20200796329	EP3959794A1	
	EP20796329.9	EP3959794	
Great Britain	GB202114486A	GB2596730A	
	GB2114486.0		
Hong Kong	62022049861.7		
United States	16/858532	US20200339273A1	
United States	11/403544		US7298132B2
United States	11/787310		US7546215B2
United States	12/780810		US8457846B2
United States	13/887254		US9422058B2