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PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4367700

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YUESHENG LIU	04/13/2017
AGUSTIN DONIS	04/13/2017
EDWARD C. COX	04/13/2017
ROBERT L. JOHNSON	04/13/2017
JOAQUIN FERNANDEZ	04/13/2017
CLAYTON RAY KRUEGER	04/13/2017

RECEIVING PARTY DATA

Name:	UNITED SERVICES AUTOMOBILE ASSOCIATION (USAA)	
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City:	SAN ANTONIO	
State/Country:	TEXAS	
Postal Code:	78288	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15486929

CORRESPONDENCE DATA

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Address Line 4: HOUSTON, TEXAS 77269

NAME OF SUBMITTER: DAVID A. CORLEY		
	DAVID A. CORLEY	
SIGNATURE: /David A. Corley/	/David A. Corley/	
DATE SIGNED: 04/13/2017	04/13/2017	

Total Attachments: 8

PATENT REEL: 042003 FRAME: 0727

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PATENT REEL: 042003 FRAME: 0728

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):

Yuesheng Liu 15602 Ruidosa Run, Helotes, TX 78023

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PATENT Of 8

REEL: 042003 FRAME: 0729

Assignee:

United Services Automobile Association (USAA) Reciprocal Interinsurance Exchange in the State of Texas 9800 Fredericksburg Road San Antonio, Texas 78288

ASSIGNMENT AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) is/are inventor(s) of an invention(s) entitled as described and claimed in the specification forming part of an application(s) for United States letters patent referenced above;

WHEREAS, United Services Automobile Association (USAA) (hereinafter referred to as ASSIGNEE), a reciprocal interinsurance exchange of the State of Texas having a place of business at 9800 Fredericksburg Road, San Antonio, Texas 78288, is desirous of acquiring the entire right, title and interest in and to the invention(s) and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign, and transfer unto ASSIGNEE, the entire right, title, and interest in and to the invention(s) (including the invention(s) disclosed in the application referenced above), the application(s), and any and all letters patent which may be granted for the invention(s) in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues, and continuations thereof, as well as any application(s) to which the application referenced above claims priority, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application(s) to which said foreign applications are entitled by virtue of international convention, treaty, or otherwise, said invention(s), application(s), and all letters patent on said invention(s) to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer, and sale not been made. ASSIGNOR(S) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR(S) agree(s) to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention(s), for litigation regarding said letters patent, or for the purpose of protecting title to said invention(s) or letters patent therefore, all of the above hereinafter the "Assigned Patent Rights."

For the avoidance of doubt, ASSIGNOR(S) hereby irrevocably assign(s), transfer(s), convey(s), and deliver(s) to ASSIGNEE all rights to sue or to bring any action or to assert any claim, whether at law or in equity, against any person or entity relating to any of the Assigned Patent Rights, including without limitation for past, present, or future infringement, misappropriation, or other unauthorized use of any of the Assigned Patent Rights, to obtain injunctive relief, and to recover or collect royalties, damages, and profits, including without limitation for such past, present or future infringement, misappropriation, or

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PATENT

REEL: 042003 FRAME: 0730

unauthorized use of any of the Assigned Patent Rights. By specifically enumerating certain rights of enforcement in this paragraph, the ASSIGNOR(S) and ASSIGNEE do not intend for this paragraph to be interpreted to suggest any limitation upon the scope of rights transferred by virtue of this Assignment.

The ASSIGNOR(S) further agree(s) for myself and my or ourselves and our respective heirs, legal representatives, and assigns to provide to the ASSIGNEE promptly upon its request and at its expense all pertinent facts and documents relating to any of said inventions, applications, or patents and legal equivalents as may be known and accessible to us and to testify as to the same in any interference, litigation, or proceeding relating thereto.

ASSIGNOR(S) further hereby represent(s) and warrant(s) that ASSIGNOR(S) is/are an original contributor to the material included in the application; and ASSIGNOR(S) has/have reviewed and understand(s) the contents of this Assignment Agreement.

This Assignment is governed by and shall be construed in accordance with the laws of Texas.

FINALLY, this Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment. Additionally, we hereby authorize our attorneys to collect the signature pages of each executed counterpart and to attach those signature pages to a single copy of this instrument, which single copy and attached signature pages together shall constitute an original of this Assignment.

Yuesheng Liu

Date of Signature

Agustin Donis

Date of Signature

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PATENT Of 8

REEL: 042003 FRAME: 0732

Edward C. Cox

Date of Signature

Robert L. Johnson

//3/17

Date of Signature

Joaquin Fernandez
4/13/2017
Date of Signature

Clayton Ray Krueger / 4/13/2017

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PATENT⁸ of 8

RECORDED: 04/13/2017 REEL: 042003 FRAME: 0736