

<b>PATENT ASSIGNMENT COVER SHEET</b>
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EPAS ID: PAT4735163

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SRINIVASAN RANGARAJ	12/13/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	PAYPAL, INC.
<b>Street Address:</b>	2211 NORTH FIRST STREET
<b>City:</b>	SAN JOSE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95131
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15840947
<b>CORRESPONDENCE DATA</b>	
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<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>	214-651-5000
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<b>Correspondent Name:</b>	HAYNES AND BOONE, LLP.
<b>Address Line 1:</b>	2323 VICTORY AVENUE
<b>Address Line 2:</b>	SUITE 700
<b>Address Line 4:</b>	DALLAS, TEXAS 75219
<b>ATTORNEY DOCKET NUMBER:</b>	70481.2350US01
<b>NAME OF SUBMITTER:</b>	THOMAS KELTON
<b>SIGNATURE:</b>	/Thomas Kelton/
<b>DATE SIGNED:</b>	12/14/2017
<b>Total Attachments: 2</b>	
source=70481.2350US01 Assignment#page1.tif	
source=70481.2350US01 Assignment#page2.tif	

**ASSIGNMENT**

WHEREAS, I, **SRINIVASAN RANGARAJ**, made certain new and useful inventions and improvements for which I filed an application for Letters Patent of the United States entitled

**SYSTEMS AND METHODS ENCRYPTING MESSAGES USING MULTIPLE  
CERTIFICATES**

WHEREAS, hereby authorize and request my attorneys, at HAYNES AND BOONE LLP, located at 2323 Victory Avenue, Suite 700, Dallas, TX 75219, to insert here in parentheses (Serial Number: 15/840,947; Filing Date: December 13, 2017) the filing date and application number of said application when known.

AND WHEREAS, PAYPAL, INC., a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business 2211 North First Street, San Jose, California 95131 (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, I have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

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AND, for the consideration aforesaid, I do hereby agree that me and my executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to me relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, I covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 12/12/2017.

DocuSigned by:  
*/Srinivasan Rangaraj/*  
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**SRINIVASAN RANGARAJ**