503961558 08/16/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4008213

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| NEIL O'DONNELL | 02/13/2009 |

RECEIVING PARTY DATA

| Name: | JPMORGAN CHASE BANK, N.A. | | |
|-----------------|---------------------------|--|--|
| Street Address: | 270 PARK AVENUE | | |
| City: | NEW YORK | | |
| State/Country: | NEW YORK | | |
| Postal Code: | 10036 | | |

PROPERTY NUMBERS Total: 1

| Property Type | Number | |
|---------------------|----------|--|
| Application Number: | 15193167 | |

CORRESPONDENCE DATA

Fax Number: (202)346-4444

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.

Phone: 202-346-4000

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Correspondent Name: KERRY H. OWENS

Address Line 1: 901 NEW YORK AVENUE NW Address Line 4: WASHINGTON, D.C. 20001

| ATTORNEY DOCKET NUMBER: | J47004.020164 |
|-------------------------|------------------|
| NAME OF SUBMITTER: | KERRY H. OWENS |
| SIGNATURE: | /KERRY H. OWENS/ |
| DATE SIGNED: | 08/16/2016 |

Total Attachments: 2

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PATENT 503961558 REEL: 039691 FRAME: 0169

JOINT ASSIGNMENT

WHEREAS, I. Neil O'Donnell, residing at 5 Rusbford Pl., Avondale, PA 19311; have invented certain new and useful improvements in and to the subject matter of

Collaborative Virtual Markup

| desembed in an | application for U | nited States Letters | Patent, filed on | and accorded |
|-----------------|-------------------|----------------------|------------------|--------------|
| Application No. | | | | |

AND, WHEREAS, JPMorgan Chase Bank, N.A., organized under the laws of the United States of America, having a place of business located at 170 Park Avenue, New York, 10016, USA (hereinafter "ASSIGNEE"), is destrois of acquising certain rights to the improvements and under the application;

NOW THEREFORE, in consideration of the sum of One Bollar (\$1.00) or the equivalent thereof, and other good and valuable consideration, receipt of which is hereby acknowledged, we do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and increst in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto in and to said improvements, said United States application, any other United States applications, including provisional divisional renewal, substitute continuation, reessantiation and ressue applications based in whole or in part on said improvements, any foreign applications, including international and regional applications, based in whole or in any of the aforesaid United States applications or in whole or in part on said improvements, and to and to any and all letters patent. Including extensions thereof, of any country which have been or may be granted on any of the aforesaid applications or on said improvements or any parts thereof.

AND WE hereby authorize and request our agents. Goodwin Procter LLP, whose address is 901 New York Ave. N.W. Washington, DC 20091, to insert hereon any identification necessary or destrable for recordation of this document, including the filling date and application number of said application when known

AND WE hereby agree for conselves and our heirs, executors and administrators to execute without further consideration any further documents and instruments which may be necessary, lawful and proper in the prosecution of said above referenced application or in the preparation or prosecution of any continuous, substitute, divisional, renewal, recommission or reissue application or in any amendments, extensions or interference proceedings, or other applications for parents of any region of country, that may be necessary to secure to ASSIONED us interest and title in and to said improvements or any parts thereof, and in and to said several patents or any of them;

AND WE hereby covenam for ourselves and our legal representatives, and agree with said ASSIGNTE, as successors and assigns, that we have granted to night or license to make, use, sell or offer to sell said improvements, to anyone except said ANSIGNEE, that prior to the execution of this dead, our night, title and interest in said improvements had not been otherwise encumbered, and that we have not and will tun execute any instrument in conflict therewith:

AND WE do hereby authorize and request the Director of the United States Patent and Trademark Office to have eny and all letters patent which may be granted upon said United States applications, or upon said improvements or any pasts thereof when granted, to said ASSIGNEE.

IN WITNESS WHEREOF, we have hereumo set our hands and seals.

County of ASO (45 AF

State of 1

day of Theorem 2000, before me a Notary Public in and for the County and State aforesaid, personally appeared Neil O'Donnell to me known and known to me to be the person of that name, who signed and scaled the foregoing instrument, and acknowledged the same to be of his fire act and deed.

Notary Publics

My Commission Expires ///4/202

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PATENT REEL: 039691 FRAME: 0171