504354622 05/05/2017

PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------|----------------|
| RAYMOND CHUN HING LO | 01/12/2017 |
| YISHAI GRIBETZ | 01/31/2017 |

RECEIVING PARTY DATA

| Name: | META COMPANY | |
|-------------------|-------------------|--|
| Street Address: | 2855 CAMPUS DRIVE | |
| Internal Address: | SUITE 300 | |
| City: | SAN MATEO | |
| State/Country: | CALIFORNIA | |
| Postal Code: | 94403 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15398697 |

CORRESPONDENCE DATA

Fax Number:

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) 429-3780 Email: andy@biplaw.com

Correspondent Name: ANDREW BODENDORF Address Line 1: 6909 CLEMSON DR.

Address Line 4: ALEXANDRIA, VIRGINIA 22307

| ATTORNEY DOCKET NUMBER: | TTORNEY DOCKET NUMBER: 040-008001 | |
|----------------------------------|-----------------------------------|--|
| NAME OF SUBMITTER: | ANDREW F. BODENDORF | |
| SIGNATURE: /Andrew F. Bodendorf/ | | |
| DATE SIGNED: | 05/05/2017 | |

Total Attachments: 2

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PATENT 504354622 REEL: 042259 FRAME: 0748

Docket No.: 040-008001

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned inventors:

Raymond Chun Hing Lo Yishai Gribetz

hereby sell, assign, and transfer to:

Meta Company

an organization having a principal place of business at 2855 Campus Drive, Suite 300, San Mateo, CA 94403, and its successors, assigns, and legal representatives (collectively hereinafter called "the Assignee"), the entire right, title, and interest throughout the world in and to the inventions and any and all improvements thereof which are the subject of the following United States non-provisional, utility patent application:

APPARATUSES, METHODS AND SYSTEMS FOR APPLICATION OF FORCES WITHIN A 3D VIRTUAL ENVIRONMENT

which was filed on January 4, 2017 as United States Application Number 15/398,697, and

which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below, and

in and to said application and divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications, utility models, and design registrations that have been or shall be filed in the United States and all foreign countries on any of said inventions and any and all improvements thereof; and in and to all original patents, reissued patents, reexamination certificates, extensions, utility models, and design registrations, that have been or shall be issued in the United States and all foreign countries on said inventions and any and all improvements thereof; and in and to all rights of priority resulting from the filling of said United States provisional application including the right to claim priority based on the filling date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, The Hague System for the International Registration of Industrial Designs, and all other treaties of like purposes;

agree that said Assignee may apply for and receive a patent or patents, registrations, and certificates for said inventions and any and all improvements thereof in our name or its own name; and

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agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation and at Assignee's expense to execute all non-provisional applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, international applications, foreign applications, and all other patent applications, utility models, and design registrations on any and all said inventions and any and all improvements thereof; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements, and all applications for patents and registrations, and all patents, utility models, and design registrations on said improvements, in said Assignee; and

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

| Signature: | /\ | Irf |
|------------|-----------|------------------|
| ~ | Statute . | |
| | Raym | and Chun Hing Lo |

Date: Jan 12, 2017

WITNESSED BY:

Signature: + Www.

Date: 1/12/2017

Printed Name: Thick McG:11

Signature:

Yishai Gribetz

Date: 31.1.17

WITNESSED BY:

Signature: 1454

Date: 1/31/2017

Printed Name: _____ Κήνιω Ακ(