505629250 08/20/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5676055

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

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| KATANGO, INC. | 02/02/2012 |

RECEIVING PARTY DATA

| Name: | GOOGLE INC. | |
|-----------------|---------------------------|--|
| Street Address: | 1600 AMPHITHEATRE PARKWAY | |
| City: | MOUNTAIN VIEW | |
| State/Country: | CALIFORNIA | |
| Postal Code: | 94043 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number | |
|---------------------|----------|--|
| Application Number: | 12974510 | |

CORRESPONDENCE DATA

Fax Number: (877)769-7945

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: (404) 892-5005

Email: apsi@fr.com, mso@fr.com

Correspondent Name: PAUL E. FRANZ

Address Line 1: FISH & RICHARDSON P.C.

Address Line 2: P.O.BOX 1022

Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022

| ATTORNEY DOCKET NUMBER: | 16113-4242001 |
|-------------------------|-------------------|
| NAME OF SUBMITTER: | MATTHEW O'BRIEN |
| SIGNATURE: | /Matthew O'Brien/ |
| DATE SIGNED: | 08/20/2019 |

Total Attachments: 4

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PATENT 505629250 REEL: 050096 FRAME: 0666

ASSIGNMENT

WHEREAS, KATANGO, INC., a corporation organized under the laws of the State of Delaware, having a place of business at 1600 Amphitheatre Parkway, Mountain View, CA 94043 ("ASSIGNOR"), is the owner of the entire right, title and interest in and to the patents and/or patent applications listed in the attached Schedule A ("PATENTS AND PATENT APPLICATIONS").

WHEREAS, GOOGLE INC., a corporation organized under the laws of the State of Delaware, having a place of business at 1600 Amphitheatre Parkway, Mountain View, CA 94043 ("ASSIGNEE"), desires to obtain the entire right, title and interest in and to the PATENTS AND PATENT APPLICATIONS.

NOW, THEREFORE, in consideration of the good and valuable consideration received by ASSIGNOR from ASSIGNEE, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR hereby assigns and transfers to ASSIGNEE the entire right, title and interest in and to the PATENTS AND PATENT APPLICATIONS, and all rights of enforcement thereto, including all rights to sue or recover for the past infringement thereof, and further including the right to file and prosecute in its own name, wherever so permitted by law, patent applications, including corresponding applications, based on any of the PATENTS AND PATENT APPLICATIONS, and to claim priority to any of the PATENTS AND PATENT APPLICATIONS pursuant to the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. ASSIGNEE may apply for and receive patents in its own name wherever so permitted by law and ASSIGNOR shall, when requested by ASSIGNEE, execute or cause to be executed all rightful oaths, assignments, and powers of attorney to ASSIGNEE or to agents and legal representatives of ASSIGNEE, and all other papers necessary and proper to carry out the intent and purpose of this Assignment, and ASSIGNOR further agrees:

a. to execute all papers necessary in connection with the PATENTS AND PATENT APPLICATIONS, and any continuing, divisional, reissue, reexamination or other corresponding application thereof and to execute any separate Assignment in connection with such application as ASSIGNEE may deem necessary or expedient; and

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to perform all affirmative acts which may be necessary to obtain a grant of a valid b. patent to ASSIGNEE on any of the PATENTS AND PATENT APPLICATIONS and on any continuation, division, reissue or reexamination of any of the PATENTS AND PATENT APPLICATIONS.

ASSIGNOR retains no ownership rights in the patent applications, the patents, the inventions, and the rights transferred to ASSIGNEE hereunder.

IN WITNESS WHEREOF, ASSIGNOR has caused this Assignment to be executed by its duly authorized representative on this 2 day of \$55,000,000 2012.

KATANGO, INC.

Br:

Katherine Stophens

Title: Sole Director, CEO, President and

Secretary

Date: 2/2/2012

State of California

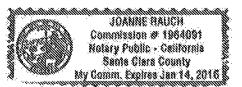
County of Savia Clara

On 2/2/12 , before me personally appeared <u>KAHANIM STONMS</u>. 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, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official scal.

(Seal)



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PATENT REEL: 090096 FRAME: 0602

ASSIGNEE hereby accepts receipt of the entire right, title and interest in and to the PATENTS AND PATENT APPLICATIONS.

By

GOÖGLE INC.

Name: Wonald Harrison Title: Assistant Secretary, VP & Deputy General

Counsel

Date: 2/2/2012

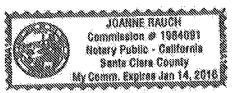
State of California County of Santa Claria

On 2/2/2 before me personally appeared DANGA HANNISAN 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, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERIORY under the laws of the State of California that the foregoing paragraph is true and correct.

WIINESS my hand and official seal.

(Seal)



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SCHEDULE A

| Attorney Docket Number | Title | Serial Number | Filing Date |
|---------------------------|--|-------------------|----------------|
| 16113-4240001 | AUTOMATED AGENT FOR SOCIAL MEDIA SYSTEMS | 12/821,056 | 06/22/2010 |
| 16113-4240P01 | PROGRAMMABLE SMART AVATARS | 61/297,651 | 01/22/2010 |
| 16113-4240WOI | AUTOMATED AGENT FOR SOCIAL MEDIA SYSTEMS | PCT/US2011/021829 | 01/20/2011 |
| 16113-4241001 | PHOTOGRAPHIC SOCIAL GAME METHOD, SYSTEM, AND APPARATUS | 13/187,088 | 07/20/2011 |
| 16113-4241P01 | PHOTOGRAPHIC SOCIAL GAME METHOD, SYSTEM, AND APPARATUS | 61/366,463 | 06/21/2010 |
| 16113-4241WO1 | PHOTOGRAPHIC SOCIAL GAME METHOD, SYSTEM, AND APPARATUS | PCT/US2011/044682 | 07/20/2011 |
| 16113-4242001 | SOCIAL INFORMATION GAME SYSTEM | 12/974,510 | 12/21/2010 |
| 16113-4242P01 | OUIZ GAMING SYSTEM | 61/413,863 | 11/15/2010 |
| 16113-4242WO1 | SOCIAL INFORMATION GAME SYSTEM | PCT/US2011/058058 | 11/15/2010 |
| 16113-4243P01 | PROCESSING SOCIALLY NETWORKED ENTITIES | 61/469,266 | 03/30/2011 |
| 16113-4244P01 | SOCIAL NETWORK EXPLORATION SYSTEMS AND METHODS | 61/469,287 | 03/30/2011 |

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PATENT REEL: 020096 FRAME: 0896