

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6464211

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|---|--------------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT           |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT               |
| <b>CONVEYING PARTY DATA</b>   |                          |
| <b>Name</b>   | <b>Execution Date</b>    |
| ADITYA RAUTRAY  | 03/08/2019               |
| DEVIPRASAD PUNJA  | 03/05/2019               |
| MADHUSUDHAN SRINIVASAN  | 03/05/2019               |
| <b>RECEIVING PARTY DATA</b>   |                          |
| <b>Name:</b>  | ROVI GUIDES, INC.        |
| <b>Street Address:</b>  | 2160 GOLD STREET         |
| <b>City:</b>  | SAN JOSE                 |
| <b>State/Country:</b>   | CALIFORNIA               |
| <b>Postal Code:</b>   | 95002                    |
| <b>PROPERTY NUMBERS Total: 1</b>  |                          |
| <b>Property Type</b>  | <b>Number</b>            |
| Application Number:   | 17255003                 |
| <b>CORRESPONDENCE DATA</b>  |                          |
| <b>Fax Number:</b>  | (646)219-6229            |
| <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> |                          |
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| <b>Email:</b>   | tracy.chu@hglaw.com      |
| <b>Correspondent Name:</b>  | HALEY GUILIANO LLP       |
| <b>Address Line 1:</b>  | 75 BROAD STREET          |
| <b>Address Line 2:</b>  | SUITE 1000               |
| <b>Address Line 4:</b>  | NEW YORK, NEW YORK 10004 |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 003597-2217-301          |
| <b>NAME OF SUBMITTER:</b>   | TRACY W. CHU             |
| <b>SIGNATURE:</b>   | /Tracy W. Chu/           |
| <b>DATE SIGNED:</b>   | 12/22/2020               |
| <b>Total Attachments: 4</b>   |                          |
| source=003597-2217-301 Assignment#page1.tif   |                          |
| source=003597-2217-301 Assignment#page2.tif   |                          |
| source=003597-2217-301 Assignment#page3.tif   |                          |



## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, We, the undersigned,

**Aditya Rautray, Deviprasad Punja and Madhusudhan Srinivasan**

who have created a certain invention for which an International Patent Application is being filed under the Patent Cooperation Treaty in the United States Receiving Office concurrently herewith and is entitled:

### **AUTOMATICALLY ASSIGNING APPLICATION SHORTCUTS TO FOLDERS WITH USER-DEFINED NAMES**

Do hereby sell, assign and transfer to Rovi Guides, Inc., a corporation of Delaware, having a place of business at 2160 Gold Street, San Jose, CA 95002, its successors, assigns, and legal representatives, the full and exclusive right to said invention and any application directed to said invention in the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties, including all future conventions, unions, agreements, acts, and treaties, and in any and all International Patent Applications directed to said invention filed, in any receiving office, under the Patent Cooperation Treaty, designating any or all Patent Cooperation Treaty member countries, including Albania (AL), Algeria (DZ), Angola (AO), Antigua & Barbuda (AG), Armenia (AM), Australia (AU), Austria (AT), Azerbaijan (AZ), Bahrain (BH), Barbados (BB), Belarus (BY), Belgium (BE), Belize (BZ), Benin (BJ), Bosnia and Herzegovina (BA), Botswana (BW), Brazil (BR), Bulgaria (BG), Brunei Darussalam (BN), Burkina Faso (BF), Cambodia (KH), Cameroon (CM), Canada (CA), Central African Republic (CF), Chad (TD), Chile (CL), China (CN), Colombia (CO), Comoros (KM), Congo (CG), Costa Rica (CR), Côte d'Ivoire (CI), Croatia (HR), Cuba (CU), Cyprus (CY), Czechia (CZ), Democratic People's Republic of Korea (KP), Denmark (DK), Djibouti (DJ), Dominica (DM), Dominican Republic (DO), Ecuador (EC), Egypt (EG), El Salvador (SV), Equatorial Guinea (GQ), Estonia (EE), Finland (FI), France (FR), Gabon (GA), Gambia (GM), Georgia (GE), Germany (DE), Ghana (GH), Greece (GR), Grenada (GD), Guatemala (GT), Guinea (GN), Guinea Bissau (GW), Honduras (HN), Hungary (HU), Iceland (IS), India (IN), Indonesia (ID), Ireland (IE), Islamic Republic of Iran (IR), Israel (IL), Italy (IT), Japan (JP), Jordan (JO), Kazakhstan (KZ), Kenya (KE), Kuwait (KW), Kyrgyzstan (KG), Lao People's Democratic Republic (LA), Latvia (LV), Lesotho (LS), Liberia (LR), Libya (LY), Liechtenstein (LI), Lithuania (LT), Luxembourg (LU), Madagascar (MG), the former Yugoslav Republic of Macedonia (MK), Malawi (MW), Malaysia (MY), Mali (ML), Malta (MT), Mauritania (MR), Mexico (MX), Monaco (MC), Mongolia (MN), Montenegro (ME), Morocco (MA), Mozambique (MZ), Namibia (NA), Netherlands (NL), New Zealand (NZ), Nicaragua (NI), Niger (NE), Nigeria (NG), Norway (NO), Oman (OM), Panama (PA), Papua New Guinea (PG), Peru (PE), Philippines (PH), Poland (PL), Portugal (PT), Qatar (QA), Republic of Korea (KR), Republic of Moldova (MD), Romania (RO), Russian Federation (RU), Rwanda (RW), Saint Lucia (LC), Saint Kitts and Nevis (KN), Saint Vincent and the Grenadines (VC), San Marino (SM), São Tomé and Príncipe (ST), Saudi Arabia (SA), Senegal (SN), Serbia (RS), Seychelles (SC), Sierra Leone (SL), Singapore (SG), Slovakia (SK), Slovenia (SI), South Africa (ZA), Spain (ES), Sri Lanka (LK), Sudan (SD), Swaziland (SZ), Sweden (SE), Switzerland (CH), Syrian Arab Republic (SY), Tajikistan (TJ), United Republic of Tanzania (TZ), Togo (TG), Thailand (TH), Trinidad and Tobago (TT), Tunisia (TN), Turkey (TR), Turkmenistan (TM), Uganda (UG), Ukraine (UA), United Arab Emirates (AE), United Kingdom (GB), United States of America (US), Uzbekistan (UZ), Viet Nam (VN), Zambia (ZM) and Zimbabwe (ZW) and all other PCT member countries, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefore;

Agree that Rovi Guides, Inc., hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, any receiving office under the Patent Cooperation Treaty, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the

history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, its successors, assigns, or legal representatives; and

Covenant with said Assignee, its successors, assigns, or legal representatives 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.

IN TESTIMONY WHEREOF We have hereunto set our signatures on the dates indicated below.

|   |   |
|---|---|
| Full Name of First Inventor:<br><b>Aditya Rautray</b> |   |
| Inventor's Signature:<br><i>Aditya Rautray</i>        | Date: Month/Day/Year<br><i>03/08/2019</i> |

|   |                      |
|---|----------------------|
| Full Name of First Inventor:<br><b>Deviprasad Punja</b> |                      |
| Inventor's Signature:                                   | Date: Month/Day/Year |

|   |                      |
|---|----------------------|
| Full Name of First Inventor:<br><b>Madhusudhan Srinivasan</b> |                      |
| Inventor's Signature:   | Date: Month/Day/Year |

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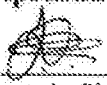
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| Inventor's Signature:                                 | Date: Month/Day/Year |

|   |                      |
|---|----------------------|
| Full Name of First Inventor:<br><b>Deviprasad Punja</b>                           |                      |
|  | 03/05/2019           |
| Inventor's Signature:   | Date: Month/Day/Year |

|   |                      |
|---|----------------------|
| Full Name of First Inventor:<br><b>Madhusudhan Srinivasan</b>                       |                      |
|  | 03/05/2019           |
| Inventor's Signature:   | Date: Month/Day/Year |