PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

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

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| JAE HYUNG LIM | 04/04/2019 |
| JEREMY LERNER | 04/04/2019 |

RECEIVING PARTY DATA

| Name: | FORD GLOBAL TECHNOLOGIES, LLC |
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| City: | DEARBORN |
| State/Country: | MICHIGAN |
| Postal Code: | 48126 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16381385 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | 84118807 |
|-------------------------|--------------------|
| NAME OF SUBMITTER: | ISAAC T. SLUTSKY |
| SIGNATURE: | /Isaac T. Slutsky/ |
| DATE SIGNED: | 04/11/2019 |

Total Attachments: 2

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PATENT REEL: 048860 FRAME: 0919 505423087

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| Attorney Do | cket Number | 84118807 | 881 - AND 111 |

ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY, PROVISIONAL OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

| Title of Invention | RADIO GENRE LISTENER DATA | ENHANCEMENT | USING | CROWD-SOURCED | |
|--|---|---|------------------|--|--|
| This declaration is direc | ted to: | | | The state of the s | |
| Unite | | international application num (I hereby authorize the i | | ne application filing date and | |
| number mo ms form w | nen mey become known.) | | | | |
| The above-identified ap | plication was made or author | ized to be made by me. | | · | |
| I hereby state that I hat including the claims. | ve reviewed and understand | I the contents of the specifi | cation in the | above-identified application, | |
| I believe that I am the or | riginal inventor or an origina | l joint inventor of a claimed | invention in th | ne application. | |
| continuation-in-part ap | plications, material informa | | ble between | 37 C.F.R. 1.56, including for the filing date of the prior tion. | |
| Pursuant to my employment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto FORD GLOBAL TECHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws of the State of Delaware, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to the inventions and discoveries in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent for the inventions and discoveries in any and all countries, entities and intergovernmental organizations, in its or their own name or names, or in my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing date of the application to receive Letters Patent herein: Serial No. 16/381,385, Filing Date April 11, 2019), and I hereby sell, assign and set over to the ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, including any provisional applications, in and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations including all applications claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, reexaminations and reissue applications. And I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, | | | | | |
| including applications for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental organizations, and to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights herein sold, assigned and set over. | | | | | |
| And I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein. | | | | | |
| I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years or both. | | | | | |
| LEGAL NAME OF INV | | () | ES. 4. | 4/1/2019 | |
| Inventor: <u>Jae Hyur</u> Signature: | 1g Lift) | 7 | Date: | 1/1/ | |
| orginataic; | | F | | | |
| | ta Sheet (PTO/SB/14 or equiva on form for each additional inve | | ire inventive en | ntity, must accompany this form. | |

PATENT REEL: 048860 FRAME: 0920

RECORDED: 04/11/2019

| Attorney Docket Number | 84118807 | |
|------------------------|----------|--|
| | | |

ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY, PROVISIONAL OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

| Title of Invention | RADIO GENRE LISTENER DATA | ENHANCEMENT | USING | CROWD-SOURCED | | |
|---|---|------------------------------|------------------|----------------------------------|--|--|
| This declaration is directed to: | | | | | | |
| X The attached application, or United States application or PCT international application number filed on (I hereby authorize the insertion of the application filing date and number into this form when they become known.) | | | | | | |
| The above-identified app | lication was made or authoriz | zed to be made by me. | | | | |
| I hereby state that I hav including the claims. | e reviewed and understand | the contents of the specific | cation in the | above-identified application, | | |
| I believe that I am the ori | iginal inventor or an original j | oint inventor of a claimed i | invention in th | ne application. | | |
| I am aware of the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application. | | | | | | |
| Pursuant to my employment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto FORD GLOBAL TECHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws of the State of Delaware, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to the inventions and discoveries in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent for the inventions and discoveries in any and all countries, entities and intergovernmental organizations, in its or their own name or names, or in my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing date of the application to receive Letters Patent herein: Serial No. 16/381,385 , Filing Date April 11, 2019), and I hereby sell, assign and set over to the ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, including any provisional applications, in and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations including all applications claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, reexaminations and reissue applications. And I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including applications for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental organizations, and to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights herein sold, assigned and set over. | | | | | | |
| And I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein. | | | | | | |
| I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years or both. | | | | | | |
| LEGAL NAME OF INV Inventor: Jeremy L Signature: | ENTOR | | Date: 4 | 14/2019 | | |
| Note: An Application Date | a Sheet (PTO/SB/14 or equivale on form for each additional inven | | ire inventive er | ntity, must accompany this form. | | |

PATENT REEL: 048860 FRAME: 0921