# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6318220

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

#### **CONVEYING PARTY DATA**

| Name                  | Execution Date |  |
|-----------------------|----------------|--|
| VIJAY K. GIDLA        | 10/10/2019     |  |
| ROGER KIHLBERG        | 10/10/2019     |  |
| STEFAN M. APELQVIST   | 10/18/2019     |  |
| ABEL GLADSTONE MANGAM | 10/10/2019     |  |

### **RECEIVING PARTY DATA**

| Name:           | 3M INNOVATIVE PROPERTIES COMPANY |  |
|-----------------|----------------------------------|--|
| Street Address: | P.O. BOX 33427                   |  |
| City:           | SAINT PAUL                       |  |
| State/Country:  | MINNESOTA                        |  |
| Postal Code:    | 55133-3427                       |  |

#### **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 15733658 |

### **CORRESPONDENCE DATA**

**Fax Number:** (651)736-3833

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:** 6517331500

Email: asmiller@mmm.com

**Correspondent Name:** 3M CENTER **Address Line 1:** P.O. BOX 33427

Address Line 4: SAINT PAUL, MINNESOTA 55133-3427

| ATTORNEY DOCKET NUMBER:          | 80511US009   |  |
|----------------------------------|--|--|
| NAME OF SUBMITTER: AMANDA MILLER |  |  |
| SIGNATURE:                       | /AMANDA MILLER/  |  |
| <b>DATE SIGNED:</b> 09/25/2020   |  |  |
|                                  | This document serves as an Oath/Declaration (37 CFR 1.63). |  |

**Total Attachments: 4** 

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### DECLARATION AND ASSIGNMENT, FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR § 1.53)

Case No:

80511

As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention in the application and for which a patent is sought on the invention entitled:

VOICE-ACTIVATED SOUND ENCODING FOR HEADSETS USING FREQUENCY DOMAIN

### REPRESENTATIONS OF MICROPHONE SIGNALS The specification of which: is attached hereto; was filed on as United States Application No. is identified as PCT International Application No. PCT/IB2019/052460 filed on March 26, 2019 The above-identified application was made or authorized to be made by me. 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 5 years, or both. in addition, for good and valuable consideration, receipt of which is acknowledged, I have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me had this assignment and transfer not been made: I do further agree for myself and for my heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I lawfully may, that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries: and I do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M innovative Properties Company, as the assignee of the entire right, title, and interest therein. Legal Name of Inventor: Vijay K. Gidla Inventor's Signature: Date: 10/10/2019

### DECLARATION AND ASSIGNMENT. FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR § 1.63)

Case No:

80511

As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention in the application and for which a patent is sought on the invention entitled:

## VOICE-ACTIVATED SOUND ENCODING FOR HEADSETS USING FREQUENCY DOMAIN REPRESENTATIONS OF MICROPHONE SIGNALS The specification of which: is attached hereto; was filed on as United States Application No. is identified as PCT International Application No. PCT/IB2019/052460 March 26, 2019 filed on The above-identified application was made or authorized to be made by me. 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 5 years, or both. In addition, for good and valuable consideration, receipt of which is acknowledged, I have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me had this assignment and transfer not been made: I do further agree for myself and for my heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I lawfully may, that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries; and I do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein. Legal Name of Inventor: Roger Kihlberg Inventor's Signature: 191040

**PATENT** 

REEL: 053883 FRAME: 0783

| DECLARATION AND ASSIGNMENT,       |    |
|-----------------------------------|----|
| FOR UTILITY OR DESIGN             |    |
| PATENT APPLICATION (37 CFR § 1.63 | () |

Case No:

80511

As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention in the application and for which a patent is sought on the invention entitled:

| VOICE-ACTIVA   | TED SOUND ENCODING FOR<br>REPRESENTATIONS OF  | HEADSETS USING FREQUENCY DO<br>MICROPHONE SIGNALS  | NIAMC   |
|--|---|--|---|
| The specification of wi  | nich:   |  |   |
| is attached heret  | Ď;  |  |   |
| was filed on as United States  | Application No.   |  |   |
| is identified as Po  | CT International Application No. March 26, 2019   | PCT//B2019/052460  |   |
| The above-identified a   | oplication was made or authorized to  | be made by me.   |   |
| fine or imprisonment of in addition, for good at and do hereby assign 3M COMPANY, and a assigns, the entire right continuation (in whole by me or made jointly termination of, my empall Letters Patent, reexthereto (including the rown name and to claim international conventional continuation (in whole part upon the said invested in invested inve | If not more than 5 years, or both, and valuable consideration, receipt of and transfer unto the 3M INNOVATIVe corporation of Delaware, having its part, title, and interest in and to the said or in part) of said application, and inwith others (provided any such improployment with 3M COMPANY and an examinations, reissues, or extensions tright to apply for Letters Patent, Utility in any priority rights for such foreign a loss, treaties, or otherwise), which have or in part), renewal, reexamination, in | in this declaration is punishable under 18 U.S. of thich is acknowledged, I have agreed to assign EPROPERTIES COMPANY, a wholly-owned incipal office at Saint Paul, Minnesota, its succinvention and application, and in and to any diverse to any and all improvements in the said invention and additional content is made during, or within one year after of its existing or future subsidiaries), and in an ereof, of the United States of America and county of the United States of The Uni | n and transfer subsidiary of cessors and vision or ention made the do any and untries foreign untries in its ed under visional, whole or in |
| consideration any furth<br>that may be deemed n  | ner applications, assignments, and do<br>ecessary by said Company, its succe  | d administrators, to execute and deliver without<br>cuments, and to perform such other acts as I to<br>ssors, assigns, and nominees, fully to secure it<br>atent, Utility Models, or Inventors' Certificates i   | awfully may,<br>ts right, title,  |
| I do hereby authorize a<br>granted upon any of th<br>title, and interest there   | e said applications, to said 3M Innov   | ents to issue any and all Letters Patent which n<br>utive Properties Company, as the assignee of ti  | nay be<br>ne entire right   |
| Legal Name of Inven  | ion:  |  |   |
| Stefan M. Apelqy   | rist  |  |   |
| Inventor's Signature:  |   | Date:  |   |
|  |   | 18 October 2019  | ***************************************   |

### DECLARATION AND ASSIGNMENT. FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR § 1.63)

Case No:

80511

### As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention in the application and for which a patent is sought on the invention entitled: VOICE-ACTIVATED SOUND ENCODING FOR HEADSETS USING FREQUENCY DOMAIN REPRESENTATIONS OF MICROPHONE SIGNALS The specification of which: is attached hereto: was filed on as United States Application No. is identified as PCT International Application No. PCT/IB2019/052460 filed on March 26, 2019 The above-identified application was made or authorized to be made by me. 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 5 years, or both. In addition, for good and valuable consideration, receipt of which is acknowledged, I have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me had this assignment and transfer not been made;

I do further agree for myself and for my heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I lawfully may, that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries; and

I do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

| Date:            |
|------------------|
| 2019/actobe/2000 |
|                  |

RECORDED: 09/25/2020

**PATENT** 

REEL: 053883 FRAME: 0785