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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
63/300,899	01/19/2022		150	BKT004USP1		

81796

Moyles IP, LLC

1 Enterprise Drive, Suite 428

Shelton, CT 06484

CONFIRMATION NO. 6161
UPDATED FILING RECEIPT



0000000137219734

Date Mailed: 01/20/2023

Receipt is acknowledged of this provisional patent application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt identifying the requested changes, preferably by including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

John Marvin Suzuki, Rockville, MD;
Lorenzo Cruger JR., Boynton Beach, FL;

Applicant(s)

BK Technologies Inc., West Melbourne, FL

Power of Attorney:

Jason Radachy--64360

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR
COMMUNICATION NETWORK

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER**Title 35, United States Code, Section 184****Title 37, Code of Federal Regulations, 5.11 & 5.15****GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as

set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.



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P.O. Box 1450
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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
63/300,899	01/19/2022	John Marvin Suzuki	BKT004USP1

CONFIRMATION NO. 6161

81796
Moyle IP, LLC
1 Enterprise Drive, Suite 428
Shelton, CT 06484

37 CFR 1.48(d)
ACKNOWLEDGEMENT LETTER



OC000000137219757

Date Mailed: 01/20/2023

NOTICE OF ACCEPTANCE OF REQUEST UNDER 37 CFR 1.48(d)

This is in response to the applicant's request under 37 CFR 1.48(d) submitted on 01/17/2023.

">The request under 37 CFR 1.48(d) to correct the inventorship, to correct or update the name of an inventor, or to correct the order of names of joint inventors is accepted.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/laguirre/



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
63/300,899	01/19/2022		150	BKT004USP1		

81796

Moyles IP, LLC

1 Enterprise Drive, Suite 428

Shelton, CT 06484

CONFIRMATION NO. 6161

FILING RECEIPT



0000000131436498

Date Mailed: 01/28/2022

Receipt is acknowledged of this provisional patent application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

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Inventor(s)

John Marvin Suzuki, Rockville, MD;
Lorenzo Cruger JR., Boynton Beach, FL;
~~James Edward Gilley, Baldwin City, KS;~~

Applicant(s)

BK Technologies Inc., West Melbourne, FL

Power of Attorney:

Jason Radachy--64360

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 01/27/2022

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 63/300,899**

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR
COMMUNICATION NETWORK

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

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For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	BKT004USP1
		Application Number	63/300,899
Title of Invention	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2:

☐	Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)
--------------------------	---

Inventor Information:

Inventor 1					Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	John	Marvin	Suzuki			
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service						
City	Rockville	State/Province	MD	Country of Residence	US	
Mailing Address of Inventor:						
Address 1	14705 Carrolton Road					
Address 2						
City	Rockville	State/Province	MD			
Postal Code	20853	Country	US			
Inventor 2					Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	Lorenzo		Cruger	Jr.		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service						
City	Boynton Beach	State/Province	FL	Country of Residence	US	
Mailing Address of Inventor:						
Address 1	8218 Fiera Ridge Drive					
Address 2						
City	Boynton Beach	State/Province	FL			
Postal Code	33473	Country	US			
Inventor 3					Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	James	Edward	Gilley			
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service						

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	BKT004USP1
		Application Number	63/300,899
Title of Invention	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK		

City	Baldwin City	State/Province	KS	Country of Residence	US
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Mailing Address of Inventor:

Address 1	640 E 1950 Road				
Address 2					
City	Baldwin City	State/Province	KS		
Postal Code	66006-7378	Country	US		

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button.

Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ An Address is being provided for the correspondence information of this application.

Customer Number	81796				
Email Address	Imoyles@moylesip.com		Add Email		Remove Email
Email Address	PATdocket@moylesip.com		Add Email		Remove Email
Email Address	jradachy@moylesip.com				Remove Email

Application Information:

Title of the Invention	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK				
Attorney Docket Number	BKT004USP1	Small Entity Status Claimed ☐			
Application Type	Provisional				
Subject Matter	Utility				
Total Number of Drawing Sheets (if any)	4	Suggested Figure for Publication (if any)			

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	BKT004USP1
		Application Number	63/300,899
Title of Invention	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK		

Publication Information:

☐	Request Early Publication (Fee required at time of Request 37 CFR 1.219)
☐	Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.											
<table border="1"> <tr> <td>Please Select One:</td> <td>☒ Customer Number</td> <td>☐ US Patent Practitioner</td> <td>☐ Limited Recognition (37 CFR 11.9)</td> </tr> <tr> <td>Customer Number</td> <td colspan="3">81796</td> </tr> </table>				Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)	Customer Number	81796		
Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)								
Customer Number	81796										

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78. When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status			Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			Add

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	BKT004USP1
		Application Number	63/300,899
Title of Invention	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK		

Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Remove Access Code ⁱ (if applicable)
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			Add

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013. NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	BKT004USP1
		Application Number	63/300,899
Title of Invention	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK		

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	BKT004USP1
		Application Number	63/300,899
Title of Invention	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK		

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.			
Applicant 1			Remove
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.			
Clear			
☐ Assignee	☐ Legal Representative under 35 U.S.C. 117	☐ Joint Inventor	
☒ Person to whom the inventor is obligated to assign.		☐ Person who shows sufficient proprietary interest	
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor:			
If the Applicant is an Organization check here. ☒			
Organization Name	BK Technologies Inc.		
Mailing Address Information For Applicant:			
Address 1	7100 Technology Drive		
Address 2			
City	West Melbourne	State/Province	FL
Country	US	Postal Code	32904
Phone Number		Fax Number	
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button. Add			

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	BKT004USP1
		Application Number	63/300,899
Title of Invention	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK		

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	Given Name	Middle Name	Family Name	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		State/Province	
Country		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

Add

Signature:

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NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Jason D. Radachy/		Date (YYYY-MM-DD)	2022-01-19
First Name	Jason D.	Last Name	Radachy	Registration Number
				64360

Additional Signature may be generated within this form by selecting the Add button.

Add

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	BKT004USP1
		Application Number	63/300,899
Title of Invention	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK		

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s):	John Marvin Suzuki et al.	Examiner:	Not assigned
Appl. No.:	63/300,899	Art Unit:	Not assigned
Filed:	01/19/2022	Confirmation No.:	6161
Title:	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER- CELLULAR COMMUNICATION NETWORK	Atty Docket No.:	BKT004USP1

**CORRECTION OF INVENTORSHIP
UNDER 37 CFR § 1.48(c)**

Mail Stop:
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant, BK Technologies Inc., through its undersigned attorney respectfully requests correction of inventorship under 37 CFR § 1.48(c). An annotated Application Data Sheet (9 pgs.), an Annotated Filing Receipt (3 pgs.) reflecting the same are submitted herewith, a transmittal letter (2 pgs.) and the required \$50.00 Processing Fee pursuant to 37 CFR §1.17(i). James Edward Gilley is being removed as a named inventor. An updated Filing Receipt is respectfully requested.

Please charge any deficiency in fees due, or credit any overpayment, to Deposit Account Number 600151, with reference to the above-referenced attorney docket number. If any issues remain, it is respectfully requested that the undersigned be contacted at 203-428-4420, in order to expedite resolution of any such issues.

Respectfully submitted,

By: /Jason D. Radachy/
Jason D. Radachy
Attorney for Applicant
Reg. No. 64,360

Moyles IP, LLC
1 Enterprise Drive, Suite 428
Shelton, CT 06484
Tel: (203) 428-4420
Fax: (866) 250-1636
jradachv@moylesip.com

Date: January 17, 2023

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	63/300,899	
	Filing Date	2022-01-19	
	First Named Inventor	John Marvin Suzuki et al.	
	Art Unit	Not assigned	
	Examiner Name	Not Assigned	
Total Number of Pages in This Submission	16	Attorney Docket Number	BKT004USP1

ENCLOSURES (Check all that apply)		
☒ Fee Transmittal Form ☒ Fee Attached ☐ Amendment/Reply ☐ After Final ☐ Affidavits/declaration(s) ☐ Extension of Time Request ☐ Express Abandonment Request ☐ Information Disclosure Statement ☐ Certified Copy of Priority Document(s) ☐ Reply to Missing Parts/ Incomplete Application ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53	☐ Drawing(s) ☐ Licensing-related Papers ☐ Petition ☐ Petition to Convert to a Provisional Application ☐ Power of Attorney, Revocation Change of Correspondence Address ☐ Terminal Disclaimer ☐ Request for Refund ☐ CD, Number of CD(s) _____ ☐ Landscape Table on CD	☐ After Allowance Communication to TC ☐ Appeal Communication to Board of Appeals and Interferences ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) ☐ Proprietary Information ☐ Status Letter ☒ Other Enclosure(s) (please identify below): Annotated Application Data Sheet, Request for Inventorship Correction, Annotated Official Filing Receipt
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Moyles IP, LLC		
Signature	/Jason D. Radachy/		
Printed name	Jason D. Radachy		
Date	2023-01-17	Reg. No.	64360

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature			
Typed or printed name		Date	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
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8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.



ELECTRONIC PAYMENT RECEIPT

APPLICATION #
63/300,899

RECEIPT DATE / TIME
01/17/2023 12:15:29 PM ET

ATTORNEY DOCKET #
BKT004USP1

Title of Invention

SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR
COMMUNICATION NETWORK

Application Information

APPLICATION TYPE Utility - Provisional Application under
35 USC 111(b)

PATENT # -

CONFIRMATION # 6161

FILED BY Theresa Syms

PATENT CENTER # 61443646

AUTHORIZED BY Jason Radachy

CUSTOMER # 81796

FILING DATE 01/19/2022

CORRESPONDENCE
ADDRESS -

FIRST NAMED
INVENTOR John Marvin Suzuki

Payment Information

PAYMENT METHOD
CARD / 9359

PAYMENT TRANSACTION ID
E20231GC15511161

PAYMENT AUTHORIZED BY
Jason Radachy

FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
2807	PROCESSING FEE FOR PROVISIONAL APPLICATIONS	50.00	1	50.00
TOTAL AMOUNT:				\$50.00

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
63/300,899

RECEIPT DATE / TIME
01/17/2023 12:15:29 PM ET

ATTORNEY DOCKET #
BKT004USP1

Title of Invention

SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK

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FILED BY Theresa Syms

PATENT CENTER # 61443646

FILING DATE 01/19/2022

CUSTOMER # 81796

FIRST NAMED INVENTOR John Marvin Suzuki

CORRESPONDENCE ADDRESS -

AUTHORIZED BY Jason Radachy

Documents

TOTAL DOCUMENTS: 4

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
BKT004USP_Annotated_Official_Filing_Receipt_28Jan22.pdf	3	Request for Corrected Filing Receipt	256 KB
Warning: The attached file contains comments or annotations. Comments are not recommended and may cause processing problems with the document.			
BKT004USP1_Inventorship_Correction_17Jan23.pdf	2	Miscellaneous Incoming Letter	116 KB
BKT004USP1_Annotated_AD S.pdf	9	Application Data Sheet	410 KB

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BKT004USP1_Transmittal_Letter.pdf	2	Miscellaneous Incoming Letter	232 KB
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Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
BKT004USP_Annotated_Official_Filing_Receipt_28Jan22.pdf	85C68A949C5A5EFD423EE814CE53929C46531FDAF7F7CFAF2830DAEA61392670C7265F8022AC7AC615453B01142D03FFFA CD14AD41F2D906DB2F2E7CD3133E2C
BKT004USP1_Inventorship_Correction_17Jan23.pdf	076D10260F6D1264D7ABEFC8B32DA05E5A561EA9D0874D733361106427EE85862742C67E4EF5FC9349DB9AB1E016E03988C 845ED8C84576B66274694B5E170F4
BKT004USP1_Annotated_ADS.pdf	3E5A06DD97168A9A6DD91A18F063875ADED2B4254F0E69F7C892B8AE034A3D9FE3B28C6BF73E8FBEC4CB74418EAF5AC08 3B21540F71485D7BDD0D7F053567A82
BKT004USP1_Transmittal_Letter.pdf	87E491CF494663AE05C52D4A389F2EF708E0EC7FC6DBB35D23D6349110BC94F94631243A69C29806874752F8CB217F88DCD 66C13E735DD34D5A1C94B61AE6665

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the

International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
63/300,899	01/19/2022		150	BKT004USP1		

81796

Moyles IP, LLC

1 Enterprise Drive, Suite 428

Shelton, CT 06484

CONFIRMATION NO. 6161
FILING RECEIPT



0000000131436498

Date Mailed: 01/28/2022

Receipt is acknowledged of this provisional patent application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt identifying the requested changes, preferably by including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

John Marvin Suzuki, Rockville, MD;
Lorenzo Cruger JR., Boynton Beach, FL;
James Edward Gilley, Baldwin City, KS;

Applicant(s)

BK Technologies Inc., West Melbourne, FL

Power of Attorney:

Jason Radachy--64360

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 01/27/2022

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 63/300,899**

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR
COMMUNICATION NETWORK

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

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SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-
CELLULAR COMMUNICATION NETWORK

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] N/A

BACKGROUND

[0002] Modern society relies on a number of different public safety agencies, such as fire departments, police departments, ambulance services, etc, to respond to to emergency situations. In many situations, inter-agency coordination is critical to effectively responding and protecting the public. However, coordination may be hampered by the lack of communication interoperability between agencies. For example, different agencies may use different communication devices, or may operate on different channels and/or talkgroups. While steps have been made to standardize radio channels and talkgroups for public safety agencies, many times the lack of a common communications network and the unpredictable nature of public safety emergencies may still result in communication difficulties despite the efforts at standardization.

[0003] While it may be possible to set up customizable talkgroups for communication, such efforts may be prohibitively complex and time-consuming in an emergency situation. Additionally, such talkgroups would require management after the conclusion of the event to remove access to the talkgroup from devices where it is no longer needed, which may result in tedious and time-consuming management and record-keeping.

[0004] Recent years have seen the development of push-to-talk-over-cellular (POC) networks that may rival or surpass the coverage of traditional land mobile radio networks. Additionally, smartphones are widely owned and carried by many people, including public safety agency employees.

[0005] Accordingly, there may be a need for methods and systems to quickly and efficiently manage access to push-to-talk talkgroups, especially those that leverage the widespread availability of personal smartphones.

BRIEF SUMMARY

[0006] N/A

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

[0007] A more particular description will be rendered by reference to exemplary embodiments that are illustrated in the accompanying figures. Understanding that these drawings depict exemplary embodiments and do not limit the scope of this disclosure, the exemplary embodiments will be described and explained with additional specificity and detail through the use of the accompanying drawings in which:

[0008] FIG. 1 is a schematic block diagram of a system according to an exemplary embodiment;

[0009] FIG. 2 is a schematic diagram of a system according to an exemplary embodiment;

[0010] FIG. 3 is a schematic diagram of a system according to an exemplary embodiment; and

[0011] FIG. 4 is a flowchart illustrating a method according to an exemplary embodiment.

[0012] Various features, aspects, and advantages of the exemplary embodiments will become more apparent from the following detailed description, along with the accompanying drawings in which like numerals represent like components throughout the figures and detailed description. The various described features are not necessarily drawn to scale in the drawings but are drawn to aid in understanding the features of the exemplary embodiments.

[0013] The headings used herein are for organizational purposes only and are not meant to limit the scope of the disclosure or the claims. To facilitate understanding, reference numerals have been used, where possible, to designate like elements common to the figures.

DETAILED DESCRIPTION

[0014] Reference will now be made in detail to various exemplary embodiments. Each example is provided by way of explanation and is not meant as a limitation and does not constitute a definition of all possible embodiments. It is understood that reference to a particular “exemplary embodiment” of, e.g., a structure, assembly, component, configuration, method, etc. includes exemplary embodiments of, e.g., the associated features, subcomponents, method steps, etc. forming a part of the “exemplary embodiment.”

[0015] FIG. 1 shows a schematic block drawings of an exemplary embodiment of a system 102 for managing access to a push-to-talk-over-cellular (POC) talkgroup. The system 102 may include a control device 104 and a first administrator device 114 in communication with the control device 104. The control device 104 may be configured to perform administrative duties with respect to one or a plurality of POC talkgroups, including a first talkgroup. For

example, the control device 104 may control which client devices have access to the talkgroups managed by the control device 104. In an exemplary embodiment, the control device 104 may be a server that is accessible via communication over internet 124. The control device 104 may further include a control device processor 106, a control device memory 108, and a control device communication module 110, which may be mutually operably coupled to each other via a control device bus 112. The control device communication module 110 may include hardware components that allow the control device 104 to communicate with other devices, either locally or via a network such as the internet 124. For example, the control device communication module 110 may include an ethernet connection, wireless LAN connection, and/or other hardware configured for communication over the internet 124. The control device processor 106, the control device memory 108, and the control device communication module 110 may be mutually operably coupled via a control device bus 112.

[0016] The first administrator device 114 may be configured to communicate with the control device 104 via the internet 124. In various exemplary embodiments, the first administrator device 114 may be a cellular telephone, a tablet computer, a laptop computer, or a desktop computer. Generally, the first administrator device 114 may be used by a person with administrative rights with respect to the first talkgroup. The first administrator device 114 may include an administrator device processor 116, an administrator device memory 118, and an administrator device communication module 120. Similar to the control device communication module 110 described above, the administrator device communication module 120 may include hardware components that allow the first administrator device 114 to communicate with the control device 104 via the internet 124. For example, the administrator device communication module 120 may include an ethernet connection, wireless LAN connection, broadband cellular antenna and related hardware, and/or other hardware configured for communication over the internet 124. The administrator device processor 116, the administrator device memory 118, and the administrator device communication module 120 may be mutually operably coupled via an administrator device bus 122.

[0017] It will be understood that FIG. 1 is not intended to demonstrate a specific physical arrangement of the hardware of the control device 104 or the first administrator device 114, but is instead intended as a conceptual representation to show what structures may be present in exemplary embodiments of the control device 104 and the first administrator device 114. It will be further understood that the control device 104 and the first administrator device 114 are

not limited to the specifically illustrated connections between the components. For example, in exemplary embodiments, certain components may be operably coupled to the control device processor 106 or the administrator device processor 116 without direct connection to other components.

[0018] FIG. 2 is a schematic diagram showing an exemplary embodiment of how the system 102 may be used to manage a POC talkgroup. For example, in an emergency incident, a first responder (hereinafter referred to as an administrator) such as a senior police officer or senior firefighter may have control of the first administrator device 114. In the context of FIG. 2, the first administrator device 114 is illustrated as a smartphone, but it will be understood that the disclosure is not limited to this. For example, in another exemplary embodiment, the first administrator device 114 may be a laptop computer or desktop computer and may be operated by a dispatcher or senior officer at a command post. The administrator may have administrative privileges with respect to a preexisting first talkgroup or may create a new first talkgroup on an ad hoc basis.

[0019] Another first responder (hereinafter referred to as a client), owning a first client device 202, may arrive on the scene and may need to communicate with other first responders. The first client device 202 may be a device configured to communicate via a broadband cellular network, such as a cellular telephone or a tablet computer. The administrator may send a command 204 to the control device 104 including first client contact information associated with the first client device 202. The command may be entered via a software application running on the first administrator device 114 and configured for interfacing with the control device 104. For example, the software application may have a user interface where the administrator can enter the first client contact information. The first client contact information may be a cellular telephone number, email address, or other identifying information linked to the first client device 202 and or the client using the first client device 202. The command 204 may further include instructions to grant the first client device 202 access to the first talkgroup, and the command 204 may further indicate a predetermined period of time for access to the first talkgroup. The predetermined period of time may have a default value, or the predetermined period of time may be settable via first administrator device 114.

[0020] In response to the command 204 may grant the first client device 202 access to the first talkgroup. Further, the control device 104 may send a first communication 206 to the first client device 202 notifying it that access has been granted to first talkgroup. The first

communication 206 may be a text message, email message, or message sent via another suitable communication protocol. The first communication 206 may include first configuration information associated with the first talkgroup. The first configuration information may include any information and/or parameters necessary for communicating via the first talkgroup. For example, the first configuration information may be a file for use by a software application on first client device 202, such that the file may instruct the software application to display and/or communicate over the first talkgroup. Additionally, the first communication 206 may include a link for downloading a POC software application for POC communication. Thus, even if the first client device 202 was not previously configured for POC communications, the first communication 206 will provide the first client device 202 with the means for accessing the first talkgroup to which it has been granted access.

[0021] After the predetermined period of time as expired, the control device 104 may revoke access of the first client device 202 to the first talkgroup. In an exemplary embodiment, the control device 104 may be configured and/or programmed to revoke the access to the first talkgroup automatically with no human interaction required. In an exemplary embodiment, the control device 104 may send a second communication 208 to the first client device 202 instructing the first client device 202 to remove the first talkgroup from the POC software on the first client device 202.

[0022] FIG. 3 is a schematic diagram showing another exemplary embodiment of how the system 102 may be used to manage a POC talkgroup. Similar to the embodiment shown in FIG. 2, in FIG. 3 the first administrator device 114 may send the command 204 to the control device 104. The main difference between FIG. 2 and FIG. 3 is that in FIG. 3, there are a plurality of client devices 302. Each of the plurality of client devices 302 may have its own client contact information, such as a cellular telephone number. Accordingly, the administrator may enter multiple telephone numbers into the software application on the first administrator device 114, each telephone number corresponding to one of the plurality of client devices 302. The control device 104 may then grant access to the first talkgroup to each of the plurality of client devices 302 for the predetermined period of time, and the control device 104 may further send the first communication 206 to each of the plurality of client devices 302. After the predetermined amount of time has expired, the control device 104 may revoke the access to the first talkgroup for each of the plurality of client devices 302.

[0023] The description above describes the control device 104 in terms of managing the first talkgroup. However, it will be understood that the disclosure is not limited to just a single talkgroup. For example, in an exemplary embodiment, the first talkgroup may be one of a plurality of talkgroups. In this situation, the first communication 206 from the control device 104 to the first client device 202 or the plurality of client devices 302 may include configuration information for each talkgroup of the plurality of talkgroups. Further, the control device 104 may grant access to one, several, or all of the talkgroups in the plurality of talkgroups to each of the first client device 202 or the plurality of client devices 302. Similarly, once the predetermined time has expired, access to the plurality of talkgroups may be automatically revoked by the control device 104.

[0024] FIG. 4 is a flowchart illustrating an exemplary embodiment of a method for managing access to a POC talkgroup. In block 402, an administrator device is provided. The administrator device may be the first administrator device 114 as described above. In block 404, a control device is provided. The control device may be the control device 104 as described above. The administrator device and the control device may be configured to communicate via the internet.

[0025] In block 406, client contact information is input into the administrator device. In an exemplary embodiment, the client contact information may be a cellular telephone number, email address, or other information that can identify a user. In block 408, a predetermined time for access to a talkgroup may be entered into the administrator device.

[0026] In block 410, the administrator device may transmit a command to the control device. The command may include the client contact information, a list of one or more talkgroups to which access is to be granted, and/or the predetermined time. In block 412, the control device may then manage the desired talkgroup(s) to grant access to the device associated with the client contact information.

[0027] In block 414, the control device may transmit a communication to the client device. The communication may include a link to download a software application that can communicate with the POC talkgroup if the client device does not already include the software, as well as information sufficient to populate the software application with the talkgroup(s).

[0028] In block 416, the client device may install the POC software application, if necessary, and join the POC talkgroup. In block 418, the control device may revoke talkgroup access for the client device after the predetermined time has elapsed. The control device may also

transmit a communication to the client device removing the talkgroup from the software application on the client device.

[0029] The exemplary embodiments of a method and system described above may provide significant advantages over conventional solutions. For example, certain emergency situations may require coordinated responses from several different agencies, possibly from multiple different jurisdictions. The agencies may each use different communication hardware, and/or may be configured to communicate on different talkgroups and channels, which could make coordination difficult. Embodiments of the system and method described above may allow users to quickly set up ad hoc talkgroups in the field for interagency communication, without required complicated administrative procedures. This would allow for more time and attention to be devoted to responding to the emergency situation. Additionally, automatically revoking access to the talkgroup after a predetermined period of time may help to reduce cluttered population of talkgroups and reduce the manpower required for administering a talkgroup. Further, automatically revoking access to talkgroups may help to maintain the integrity and security of agency talkgroups by reducing the likelihood of unauthorized access after the emergency situation has passed.

[0030] This disclosure, in various embodiments, configurations and aspects, includes components, methods, processes, systems, and/or apparatuses as depicted and described herein, including various embodiments, sub-combinations, and subsets thereof. This disclosure contemplates, in various embodiments, configurations and aspects, the actual or optional use or inclusion of, e.g., components or processes as may be well-known or understood in the art and consistent with this disclosure though not depicted and/or described herein.

[0031] The phrases "at least one", "one or more", and "and/or" are open-ended expressions that are both conjunctive and disjunctive in operation. For example, each of the expressions "at least one of A, B and C", "at least one of A, B, or C", "one or more of A, B, and C", "one or more of A, B, or C" and "A, B, and/or C" means A alone, B alone, C alone, A and B together, A and C together, B and C together, or A, B and C together.

[0032] In this specification and the claims that follow, reference will be made to a number of terms that have the following meanings. The terms "a" (or "an") and "the" refer to one or more of that entity, thereby including plural referents unless the context clearly dictates otherwise. As such, the terms "a" (or "an"), "one or more" and "at least one" can be used interchangeably herein. Furthermore, references to "one embodiment", "some embodiments",

"an embodiment" and the like are not intended to be interpreted as excluding the existence of additional embodiments that also incorporate the recited features. Approximating language, as used herein throughout the specification and claims, may be applied to modify any quantitative representation that could permissibly vary without resulting in a change in the basic function to which it is related. Accordingly, a value modified by a term such as "about" is not to be limited to the precise value specified. In some instances, the approximating language may correspond to the precision of an instrument for measuring the value. Terms such as "first," "second," "upper," "lower" etc. are used to identify one element from another, and unless otherwise specified are not meant to refer to a particular order or number of elements.

[0033] As used herein, the terms "may" and "may be" indicate a possibility of an occurrence within a set of circumstances; a possession of a specified property, characteristic or function; and/or qualify another verb by expressing one or more of an ability, capability, or possibility associated with the qualified verb. Accordingly, usage of "may" and "may be" indicates that a modified term is apparently appropriate, capable, or suitable for an indicated capacity, function, or usage, while considering that in some circumstances the modified term may sometimes not be appropriate, capable, or suitable. For example, in some circumstances an event or capacity can be expected, while in other circumstances the event or capacity cannot occur - this distinction is captured by the terms "may" and "may be."

[0034] As used in the claims, the word "comprises" and its grammatical variants logically also subtend and include phrases of varying and differing extent such as for example, but not limited thereto, "consisting essentially of" and "consisting of." Where necessary, ranges have been supplied, and those ranges are inclusive of all sub-ranges therebetween. It is to be expected that the appended claims should cover variations in the ranges except where this disclosure makes clear the use of a particular range in certain embodiments.

[0035] The terms "determine", "calculate" and "compute," and variations thereof, as used herein, are used interchangeably and include any type of methodology, process, mathematical operation or technique.

[0036] This disclosure is presented for purposes of illustration and description. This disclosure is not limited to the form or forms disclosed herein. In the Detailed Description of this disclosure, for example, various features of some exemplary embodiments are grouped together to representatively describe those and other contemplated embodiments, configurations, and aspects, to the extent that including in this disclosure a description of every

potential embodiment, variant, and combination of features is not feasible. Thus, the features of the disclosed embodiments, configurations, and aspects may be combined in alternate embodiments, configurations, and aspects not expressly discussed above. For example, the features recited in the following claims lie in less than all features of a single disclosed embodiment, configuration, or aspect. Thus, the following claims are hereby incorporated into this Detailed Description, with each claim standing on its own as a separate embodiment of this disclosure.

[0037] Advances in science and technology may provide variations that are not necessarily express in the terminology of this disclosure although the claims would not necessarily exclude these variations.

CLAIMS

What is claimed is:

1. A method of managing access to a push-to-talk-over-cellular (POC) talkgroup, the method comprising:
 - providing a control device configured to manage a first talkgroup;
 - granting a first client device access to the first talkgroup;
 - transmitting a first communication to the first client device, the first communication including first configuration information for the first talkgroup; and
 - automatically revoking access of the first client device to the first talkgroup after a predetermined period of time has elapsed.
2. The method of claim 1, wherein the first communication is a text message.
3. The method of claim 1 or 2, wherein the first communication includes a link to download a POC software application.
4. The method of any one of claims 1 to 3, wherein the control device is a server accessible via internet communication.
5. The method of claim 1 or 4, wherein the first client device is configured to communicate via a broadband cellular network.
6. The method of any one of claims 1 to 5, wherein the first client device is a cellular telephone.
7. The method of any one of claims 1 to 5, wherein the first client device is a tablet computer.
8. The method of any one of claims 1 to 7, further comprising providing a first administrator device.
9. The method of claim 8, further comprising setting the predetermined time via the first administrator device.
10. The method of claim 8 or 9, wherein the first administrator device is configured to communicate via a broadband cellular network.

11. The method of any one of claims 8 to 10, wherein the first administrator device is a cellular telephone.
12. The method of any one of claims 8 to 10, wherein the first administrator device is a tablet computer.
13. The method of any one of claims 8 to 10, wherein the first administrator device is a laptop computer.
14. The method of any one of claims 8 to 10, wherein the first administrator device is a personal computer.
15. The method of any one of claims 8 to 14, further comprising transmitting, from the first administrator device to the control device, first client contact information associated with the first client device.
16. The method of claim 15, wherein the first client contact information is a first cellular telephone number.
17. The method of any one of claims 1 to 16, wherein:
 - the first client device is one of a plurality of client devices;
 - the granting the first client device access to the first talkgroup comprises granting the plurality of client devices access to the first talkgroup;
 - the transmitting the first communication comprises transmitting the first communication to the plurality of client devices; and
 - the automatically revoking access of the first client device to the first talkgroup comprises automatically revoking access of the plurality of client devices to the first talkgroup after the predetermined period of time.
18. The method of any one of claims 1 to 17, wherein:
 - the first talkgroup is one of a plurality of talkgroups; and
 - the first communication includes configuration information for each talkgroup of the plurality of talkgroups.
19. The method of claim 18, wherein:

the granting the first client device access to the first talkgroup comprises granting the first client device access to the plurality of talkgroups; and

the automatically revoking access of the first client device to the first talkgroup comprises automatically revoking access of the first client device to the plurality of talkgroups after the predetermined time has elapsed.

20. A non-transitory computer-readable storage medium comprising computer-executable instructions that, when executed by a computer, cause the computer to perform:

granting a first client device access to a first talkgroup;

transmitting a first communication to the first client device, the first communication including first configuration information for the first talkgroup; and

automatically revoking access of the first client device to the first talkgroup after a predetermined period of time has elapsed.

21. The non-transitory computer-readable storage medium of claim 20, wherein the first communication is a text message.

22. The non-transitory computer-readable storage medium of claim 20 or 21, wherein the first communication includes a link to download a POC software application.

23. The non-transitory computer-readable storage medium of any one of claims 20 to 22, wherein the first client device is configured to communicate via a broadband cellular network.

24. The non-transitory computer-readable storage medium of claim 23, wherein the first client device is a cellular telephone.

25. The non-transitory computer-readable storage medium of claim 23, , wherein the first client device is a tablet computer.

26. The non-transitory computer-readable storage medium of any one of claims 20 to 25, wherein the computer executable instructions further cause the computer to perform:

receiving a command from a first administrator device.

27. The non-transitory computer-readable storage medium of claim 26, wherein the command sets the predetermined time.

28. The non-transitory computer-readable storage medium of claim 26 or 27, wherein the first administrator device is configured to communicate via a broadband cellular network.
29. The non-transitory computer-readable storage medium of any one of claims 26 to 28, wherein the first administrator device is a cellular telephone.
30. The non-transitory computer-readable storage medium of any one of claims 26 to 28, wherein the first administrator device is a tablet computer.
31. The non-transitory computer-readable storage medium of any one of claims 26 to 28, wherein the first administrator device is a laptop computer.
32. The non-transitory computer-readable storage medium of any one of claims 26 to 28, wherein the first administrator device is a personal computer.
33. The non-transitory computer-readable storage medium of any one of claims 26 to 32, wherein the command comprises first client contact information associated with the first client device.
34. The non-transitory computer-readable storage medium of claim 33, wherein the first client contact information is a first cellular telephone number.
35. The non-transitory computer-readable storage medium of any one of claims 20 to 34, wherein:
- the first client device is one of a plurality of client devices;
 - the granting the first client device access to the first talkgroup comprises granting the plurality of client devices access to the first talkgroup;
 - the transmitting the first communication comprises transmitting the first communication to the plurality of client devices; and
 - the automatically revoking access of the first client device to the first talkgroup comprises automatically revoking access of the plurality of client devices to the first talkgroup after the predetermined period of time.
36. The non-transitory computer-readable storage medium of any one of claims 20 to 35, wherein:
- the first talkgroup is one of a plurality of talkgroups; and

the first communication includes configuration information for each talkgroup of the plurality of talkgroups.

37. The non-transitory computer-readable storage medium of claim 36, wherein:

the granting the first client device access to the first talkgroup comprises granting the first client device access to the plurality of talkgroups; and

the automatically revoking access of the first client device to the first talkgroup comprises automatically revoking access of the first client device to the plurality of talkgroups after the predetermined time has elapsed.

38. A system for managing access to a push-to-talk-over-cellular (POC) talkgroup, the system comprising:

a control device configured to manage a first talkgroup, the control device comprising:

a control device processor;

a control device memory operably coupled to the control device processor; and

a control device communication module operably coupled to the control device processor;

a first administrator device in communication with the control device, the first administrator device comprising:

an administrator device processor;

an administrator device memory operably coupled to the control device processor; and

an administrator device communication module operably coupled to the administrator device processor;

wherein the control device is configured to perform:

granting a first client device access to the first talkgroup;

transmitting a first communication to the first client device, the first communication including first configuration information for the first talkgroup; and

automatically revoking access of the first client device to the first talkgroup after a predetermined period of time has elapsed; and

the first administrator device is configured to perform sending a command to the control device.

39. The system of claim 38, wherein the first communication is a text message.

40. The system of claim 38 or 39, wherein the first communication includes a link to download a POC software application.

41. The system of any one of claims 38 to 40, wherein the control device is a server accessible via internet communication.

42. The system of any one of claims 38 to 41, wherein the first client device is configured to communicate via a broadband cellular network.

43. The system of any one of claims 38 to 42, wherein the first client device is a cellular telephone.

44. The system of any one of claims 38 to 42, wherein the first client device is a tablet computer.

45. The system of any one of claims 38 to 44, wherein the command sets the predetermined time.

46. The system of any one of claims 38 to 45, wherein the first administrator device is configured to communicate via a broadband cellular network.

47. The system of any one of claims 38 to 46, wherein the first administrator device is a cellular telephone.

48. The system of any one of claims 38 to 47, wherein the first administrator device is a tablet computer.

49. The system of any one of claims 38 to 48, wherein the first administrator device is a laptop computer.

50. The system of any one of claims 38 to 49, wherein the first administrator device is a personal computer.

51. The system of any one of claims 38 to 50, wherein the command comprises first client contact information associated with the first client device.

52. The system of claim 51, wherein the first client contact information is a first cellular telephone number.

53. The system of any one of claims 38 to 52, wherein:

the first client device is one of a plurality of client devices;

the granting the first client device access to the first talkgroup comprises granting the plurality of client devices access to the first talkgroup;

the transmitting the first communication comprises transmitting the first communication to the plurality of client devices; and

the automatically revoking access of the first client device to the first talkgroup comprises automatically revoking access of the plurality of client devices to the first talkgroup after the predetermined period of time.

54. The system of any one of claims 38 to 53, wherein:

the first talkgroup is one of a plurality of talkgroups; and

the first communication includes configuration information for each talkgroup of the plurality of talkgroups.

55. The system of claim 54, wherein:

the granting the first client device access to the first talkgroup comprises granting the first client device access to the plurality of talkgroups; and

the automatically revoking access of the first client device to the first talkgroup comprises automatically revoking access of the first client device to the plurality of talkgroups after the predetermined time has elapsed.

1/4

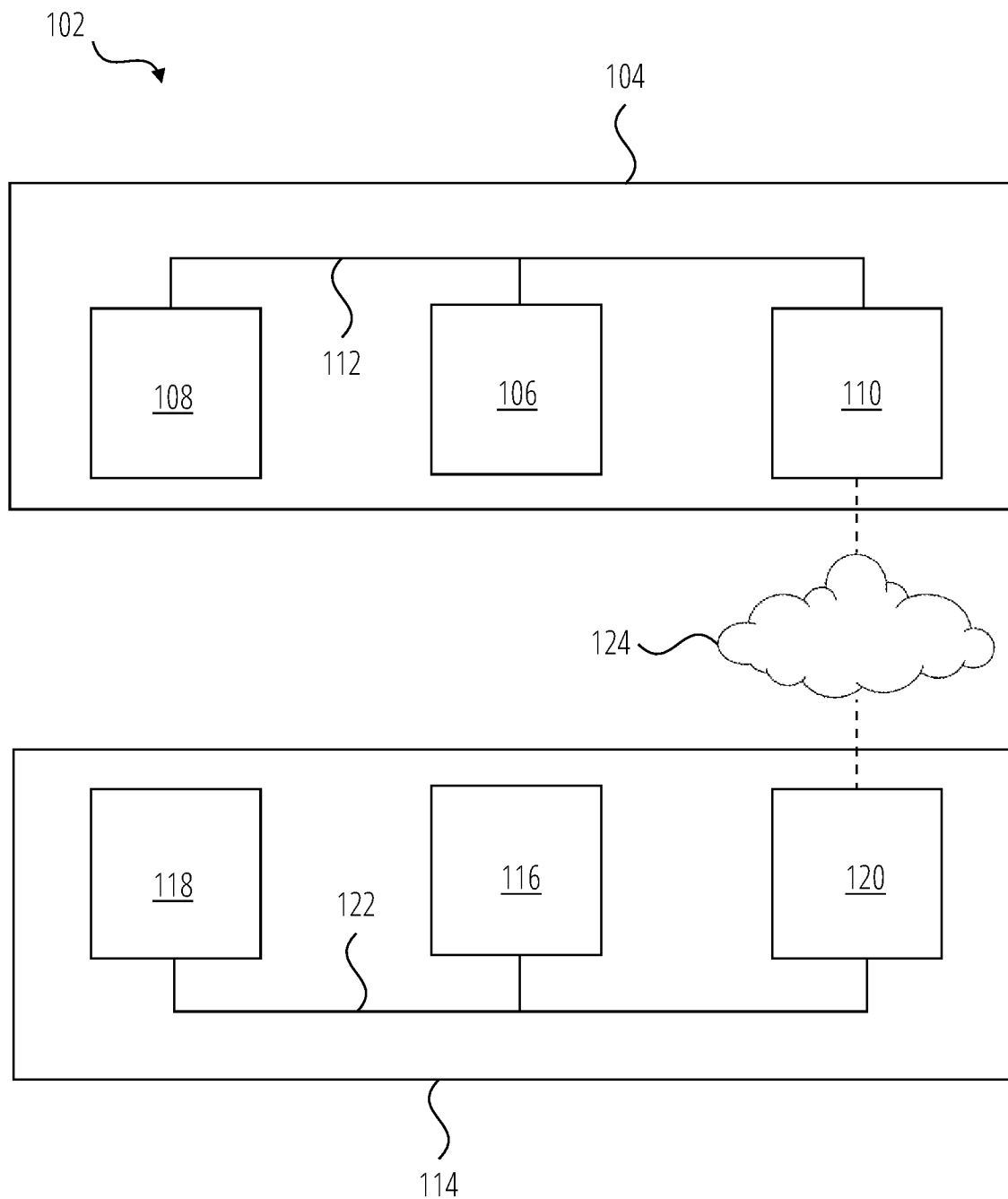


FIG. 1

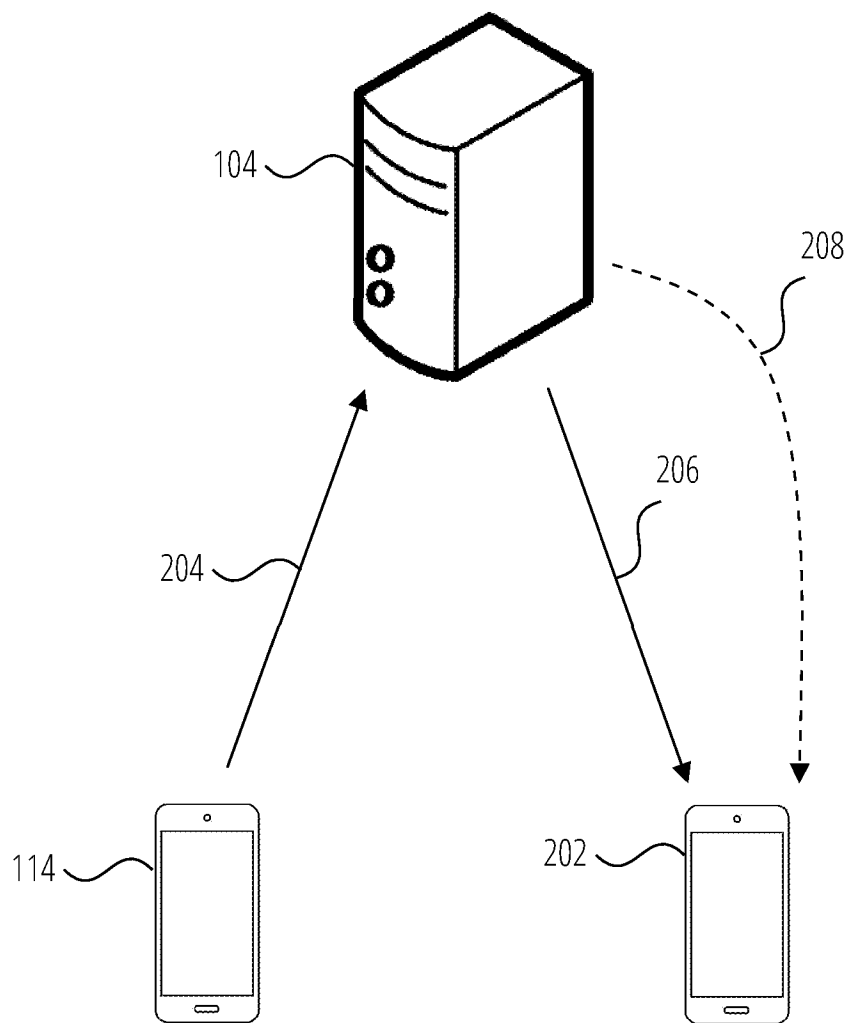


FIG. 2

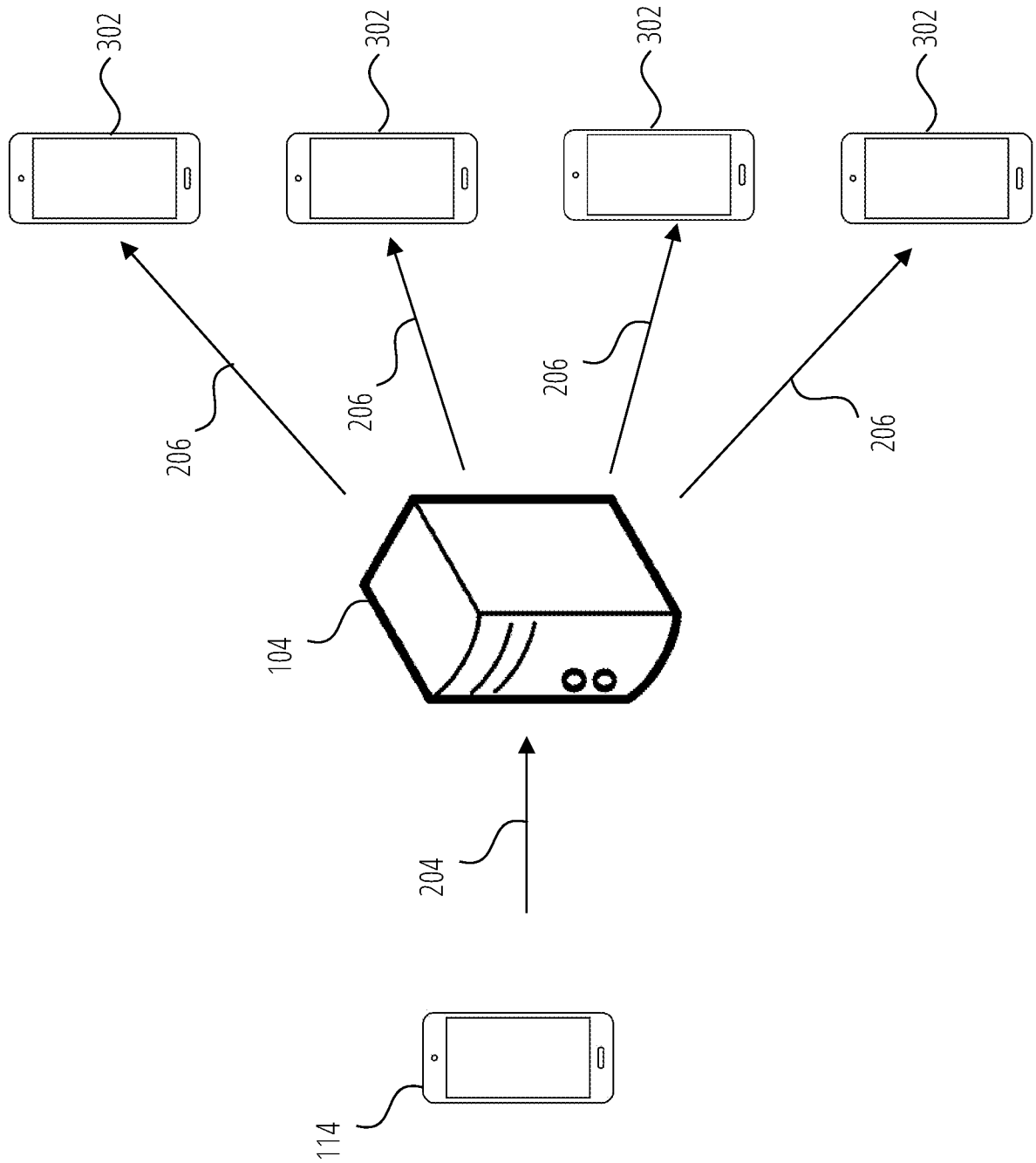
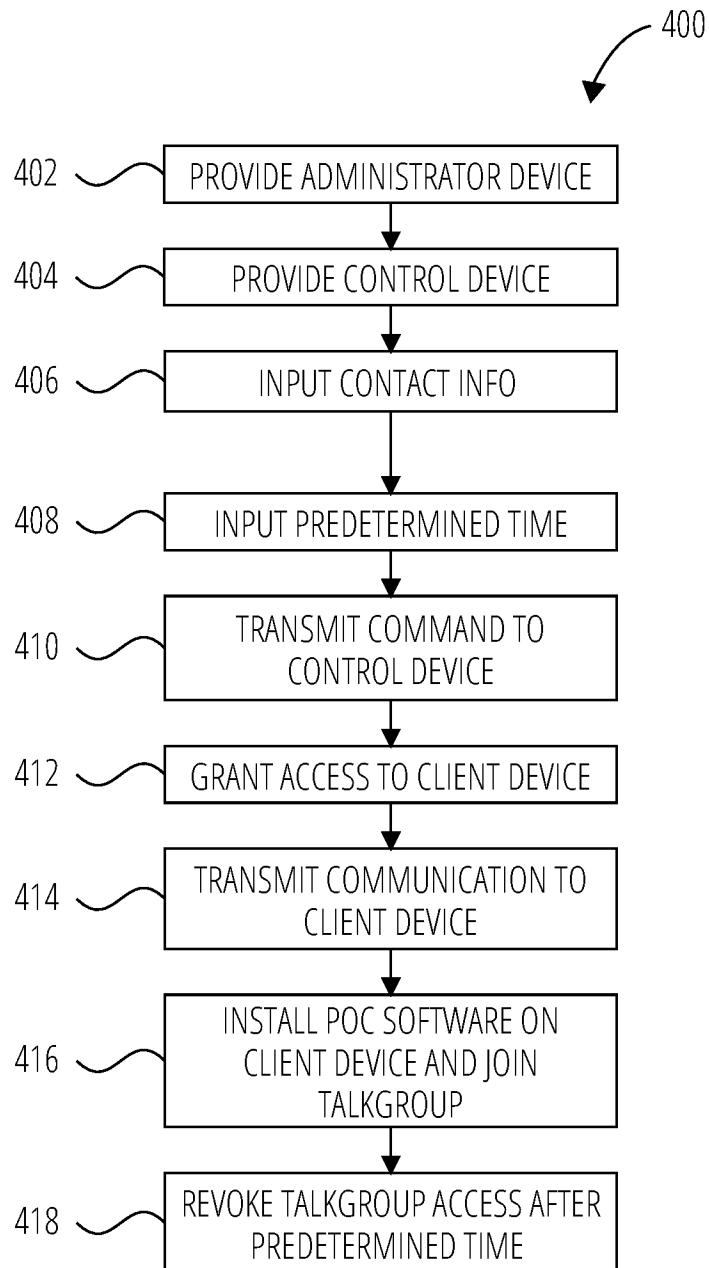


FIG. 3

**FIG. 4**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	BKT004USP1
		Application Number	
Title of Invention	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2:

☐	Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	BKT004USP1
		Application Number	
Title of Invention	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK		

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All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.					Add

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Email Address	PATdocket@moylesip.com	Add Email	Remove Email
Email Address	gradachy@moylesip.com		Remove Email

Application Information:

Title of the Invention	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK		
Attorney Docket Number	BKT004USP1	Small Entity Status Claimed	☒
Application Type	Provisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	4	Suggested Figure for Publication (if any)	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	BKT004USP1
		Application Number	
Title of Invention	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK		

Publication Information:

☐	Request Early Publication (Fee required at time of Request 37 CFR 1.219)
☐	Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.			
Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	81796		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78. When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status		Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			Add

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)¹ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	BKT004USP1
		Application Number	
Title of Invention	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK		

		Remove	
Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ^j (if applicable)
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			Add

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐	This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013. NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BKT004USP1
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	BKT004USP1
		Application Number	
Title of Invention	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK		

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant	1	Remove
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section. Clear		
Assignee	Legal Representative under 35 U.S.C. 117	Joint Inventor
☐ Person to whom the inventor is obligated to assign.		Person who shows sufficient proprietary interest
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:		
Name of the Deceased or Legally Incapacitated Inventor:		
If the Applicant is an Organization check here. ☒		
Organization Name	BK Technologies Inc.	
Mailing Address Information For Applicant:		
Address 1	7100 Technology Drive	
Address 2		
City	West Melbourne	State/Province
Country	US	Postal Code
Phone Number		Fax Number
Email Address		
Additional Applicant Data may be generated within this form by selecting the Add button. Add		

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	BKT004USP1
		Application Number	
Title of Invention	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK		

Assignee	1			
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.				
				Remove
If the Assignee or Non-Applicant Assignee is an Organization check here.				☐
Prefix	Given Name	Middle Name	Family Name	Suffix
Mailing Address Information For Assignee including Non-Applicant Assignee:				
Address 1				
Address 2				
City		State/Province		
Country ⁱ		Postal Code		
Phone Number		Fax Number		
Email Address				
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.				Add

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Jason D. Radachy/		Date (YYYY-MM-DD)	2022-01-19
First Name	Jason D.	Last Name	Radachy	Registration Number
				64360
Additional Signature may be generated within this form by selecting the Add button.				Add

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	BKT004USP1
		Application Number	
Title of Invention	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK		

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal

Application Number:				
Filing Date:				
Title of Invention:	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK			
First Named Inventor/Applicant Name:	John Marvin Suzuki			
Filer:	Jason D Radachy/Theresa Syms			
Attorney Docket Number:	BKT004USP1			
Filed as Small Entity				
Filing Fees for Provisional				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
PROVISIONAL APPLICATION FILING FEE	2005	1	150	150
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				150

Electronic Acknowledgement Receipt

EFS ID:	44782593
Application Number:	63300899
International Application Number:	
Confirmation Number:	6161
Title of Invention:	SYSTEM AND METHOD FOR MANAGING ACCESS TO A PUSH-TO-TALK-OVER-CELLULAR COMMUNICATION NETWORK
First Named Inventor/Applicant Name:	John Marvin Suzuki
Customer Number:	81796
Filer:	Jason D Radachy
Filer Authorized By:	
Attorney Docket Number:	BKT004USP1
Receipt Date:	19-JAN-2022
Filing Date:	
Time Stamp:	17:06:27
Application Type:	Provisional

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 150
RAM confirmation Number	E20221IH06471503
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

AT&T SERVICES, INC. and STREAMWIDE INC.

EX. 1004 Page 60 of 62

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		BKT004USP_specification_19Jan22.pdf	186508	yes	16
			e7f58e8a7bb38a2d31cee2ce088a4999ec03aa9a		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	9	
	Claims		10	16	
Warnings:					
Information:					
2	Drawings-only black and white line drawings	BKT004USP_drawings_19Jan22.pdf	35139	no	4
			33c5774a12a92063151880e106aa9d4b82cd093b		
Warnings:					
Information:					
3	Application Data Sheet	BKT004USP1_ADS.pdf	1307821	no	9
			cb6a9b5941729f15bb34e91f70ea3ef8b67cbdf7		
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	37560	no	2
			fb7c2bf885a083ffa9ec572e9db552a2d12eeccd		
Warnings:					
Information:					
Total Files Size (in bytes):			1567028		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.