

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	
	Filing Date	
	First Named Inventor	Lonnie Jarvis
	Art Unit	
	Examiner Name	
	Attorney Docket Number	22-160.NP

U.S.PATENTS							Remove	
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
	1							
If you wish to add additional U.S. Patent citation information please click the Add button.							Add	
U.S.PATENT APPLICATION PUBLICATIONS							Remove	
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
	1	20200025494	A1	2020-01-23	Joshua J. Parker			
If you wish to add additional U.S. Published Application citation information please click the Add button.							Add	
FOREIGN PATENT DOCUMENTS							Remove	
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²ⁱ	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							
If you wish to add additional Foreign Patent Document citation information please click the Add button								Add
NON-PATENT LITERATURE DOCUMENTS							Remove	
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.						T ⁵

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		
	Filing Date		
	First Named Inventor	Lonnie Jarvis	
	Art Unit		
	Examiner Name		
	Attorney Docket Number	22-160.NP	

	1	
If you wish to add additional non-patent literature document citation information please click the Add button Add		
EXAMINER SIGNATURE		
Examiner Signature		Date Considered
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		
¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.		

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		
	Filing Date		
	First Named Inventor	Lonnie Jarvis	
	Art Unit		
	Examiner Name		
	Attorney Docket Number	22-160.NP	

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Brian D. Batt/	Date (YYYY-MM-DD)	2023-10-23
Name/Print	Brian D. Batt	Registration Number	77779

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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.**

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.

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 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).
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 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.

CERTIFICATION OF MICRO ENTITY STATUS (GROSS INCOME BASIS)					
Application Number or Control Number (if applicable):			Patent Number (if applicable):		
First Named Inventor: Lonnie Jarvis			Title of Invention: FIREARM SUPPRESSION SYSTEM		
The applicant hereby certifies the following—					
(1) SMALL ENTITY REQUIREMENT – The applicant qualifies as a small entity as defined in 37 CFR 1.27. (2) APPLICATION FILING LIMIT – Neither the applicant nor the inventor nor a joint inventor has been named as the inventor or a joint inventor on more than four previously filed U.S. patent applications, excluding provisional applications and international applications under the Patent Cooperation Treaty (PCT) for which the basic national fee under 37 CFR 1.492(a) was not paid, and also excluding patent applications for which the applicant has assigned all ownership rights, or is obligated to assign all ownership rights, as a result of the applicant's previous employment. (3) GROSS INCOME LIMIT ON APPLICANTS AND INVENTORS – Neither the applicant nor the inventor nor a joint inventor, in the calendar year preceding the calendar year in which the applicable fee is being paid, had a gross income, as defined in section 61(a) of the Internal Revenue Code of 1986 (26 U.S.C. 61(a)), exceeding the "Maximum Qualifying Gross Income" reported on the USPTO Web site at http://www.uspto.gov/patents/law/micro_entity.jsp which is equal to three times the median household income for that preceding calendar year, as most recently reported by the Bureau of the Census. (4) GROSS INCOME LIMIT ON PARTIES WITH AN "OWNERSHIP INTEREST" – Neither the applicant nor the inventor nor a joint inventor has assigned, granted, or conveyed, nor is under an obligation by contract or law to assign, grant, or convey, a license or other ownership interest in the application concerned to an entity that, in the calendar year preceding the calendar year in which the applicable fee is being paid, had a gross income, as defined in section 61(a) of the Internal Revenue Code of 1986, exceeding the "Maximum Qualifying Gross Income" reported on the USPTO Web site at http://www.uspto.gov/patents/law/micro_entity.jsp which is equal to three times the median household income for that preceding calendar year, as most recently reported by the Bureau of the Census.					
SIGNATURE by an <u>authorized party</u> set forth in 37 CFR 1.33(b)					
Signature		/Brian D. Batt/			
Name		Brian D. Batt			
Date		10-23-2023	Telephone		Registration No. 77779
☐		There is more than one inventor and I am one of the inventors who are jointly identified as the applicant. The required additional certification form(s) signed by the other joint inventor(s) are included with this form.			

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 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).
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 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.

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	22-160.NP
		Application Number	
Title of Invention	FIREARM SUPPRESSION SYSTEM		
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	
	Lonnie		Jarvis		
Residence Information (Select One) • US Residency Non US Residency Active US Military Service					
City	Rexburg	State/Province	ID	Country of Residence	US
Mailing Address of Inventor:					
Address 1	1075 S Desert Rock Rd				
Address 2					
City	Rexburg	State/Province	ID		
Postal Code	83440	Country	i	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	181674		
Email Address	bbatt@beardstclair.com	Add Email	Remove Email

Application Information:

Title of the Invention	FIREARM SUPPRESSION SYSTEM		
Attorney Docket Number	22-160.NP	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	17	Suggested Figure for Publication (if any)	3

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	22-160.NP
		Application Number	
Title of Invention	FIREARM SUPPRESSION SYSTEM		

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

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	181674		

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	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Claims benefit of provisional	63419776	2022-10-27
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			Add

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	22-160.NP
		Application Number	
Title of Invention	FIREARM SUPPRESSION SYSTEM		

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).

Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ^j (if applicable)	Remove

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

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	22-160.NP
		Application Number	
Title of Invention	FIREARM SUPPRESSION SYSTEM		

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.

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	22-160.NP
		Application Number	
Title of Invention	FIREARM SUPPRESSION SYSTEM		

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	Jarvis Arms LLC		
Mailing Address Information For Applicant:			
Address 1	1075 S DESERT ROCK RD		
Address 2			
City	Rexburg	State/Province	ID
Country	US	Postal Code	83440
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	22-160.NP
		Application Number	
Title of Invention	FIREARM SUPPRESSION SYSTEM		

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:

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	/Brian D. Batt/			Date (YYYY-MM-DD)	2023-10-23
First Name	Brian D.	Last Name	Batt	Registration Number	77779
Additional Signature may be generated within this form by selecting the Add button. Add					

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	22-160.NP
		Application Number	
Title of Invention	FIREARM SUPPRESSION SYSTEM		

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.

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.

UTILITY PATENT APPLICATION TRANSMITTAL (Only for new nonprovisional applications under 37 CFR 1.53(b))	Attorney Docket No.	22-160.NP
	First Named Inventor	LONNIE JARVIS
	Title	FIREARM SUPPRESSION SYSTEM
	Priority Mail Express® Label No.	

APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning utility patent application contents.</i>	Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450
--	---

1. ☒ Fee Transmittal Form (PTO/SB/17 or equivalent) 2. ☐ Applicant asserts small entity status. See 37 CFR 1.27 3. ☒ Applicant certifies micro entity status. See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent. 4. ☒ Specification [Total Pages <u>27</u>] Both the claims and abstract must start on a new page. (See MPEP § 608.01(a) for information on the preferred arrangement) 5. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets <u>17</u>] 6. Inventor's Oath or Declaration [Total Pages _____] (including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e)) a. ☒ Newly executed (original or copy) b. ☐ A copy from a prior application (37 CFR 1.63(d)) 7. ☒ Application Data Sheet * See note below. See 37 CFR 1.76 (PTO/AIA/14 or equivalent) 8. CD-ROM or CD-R in duplicate, large table, or Computer Program (Appendix) ☐ Landscape Table on CD 9. Nucleotide and/or Amino Acid Sequence Submission (if applicable, items a. – c. are required) a. ☐ Computer Readable Form (CRF) b. ☐ Specification Sequence Listing on: i. ☐ CD-ROM or CD-R (2 copies); or ii. ☐ Paper c. ☐ Statements verifying identity of above copies	ACCOMPANYING APPLICATION PAPERS 10. ☐ Assignment Papers (cover sheet & document(s)) Name of Assignee _____ 11. ☐ 37 CFR 3.73(c) Statement (when there is an assignee) ☒ Power of Attorney 12. ☐ English Translation Document (if applicable) 13. ☐ Information Disclosure Statement (PTO/SB/08 or PTO-1449) ☐ Copies of citations attached 14. ☐ Preliminary Amendment 15. ☐ Return Receipt Postcard (MPEP § 503) (Should be specifically itemized) 16. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed) 17. ☐ Nonpublication Request Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent. 18. ☐ Other: _____ _____ _____ _____
--	---

***Note:** (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 **must** be included in an Application Data Sheet (ADS).
(2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

19. CORRESPONDENCE ADDRESS				
☒ The address associated with Customer Number: <u>181674</u> OR ☐ Correspondence address below				
Name				
Address				
City	State	Zip Code		
Country	Telephone	Email		
Signature	/Brian D. Batt/		Date	2023-10-23
Name (Print/Type)	Brian D. Batt		Registration No. (Attorney/Agent)	77779

This collection of information is required by 37 CFR 1.53(b). 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 take 12 minutes 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.

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 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).
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 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.

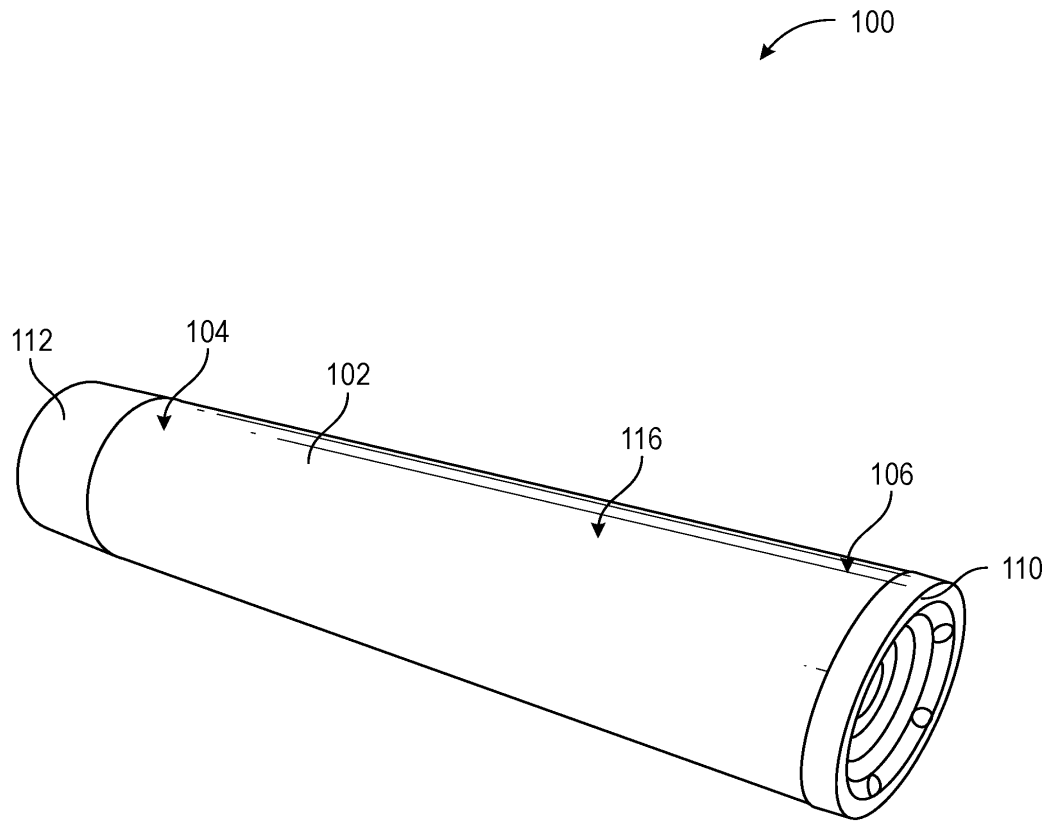


FIG. 1

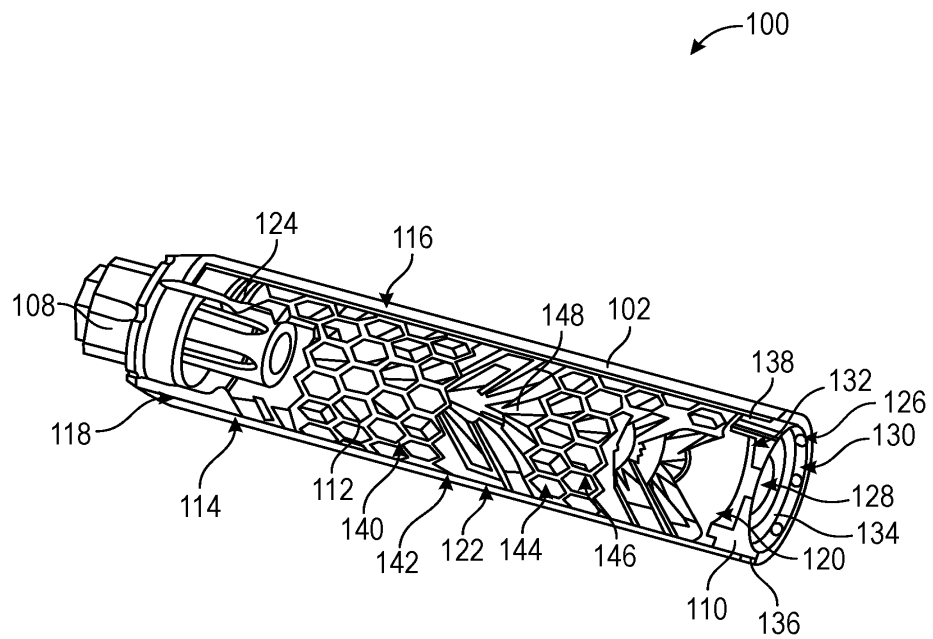


FIG. 2

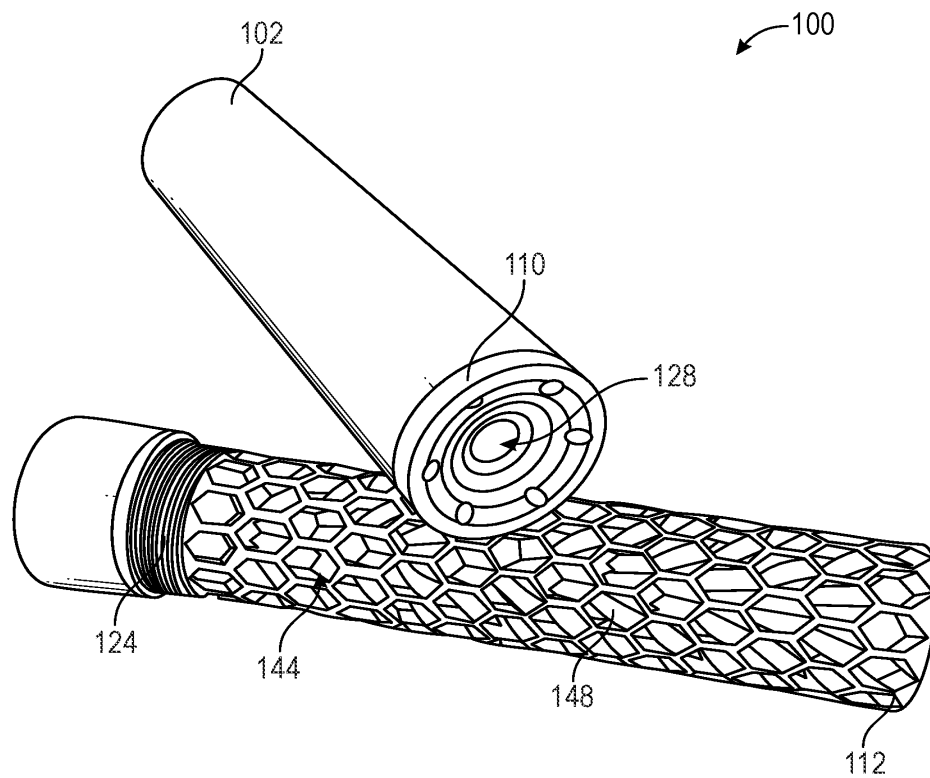


FIG. 3

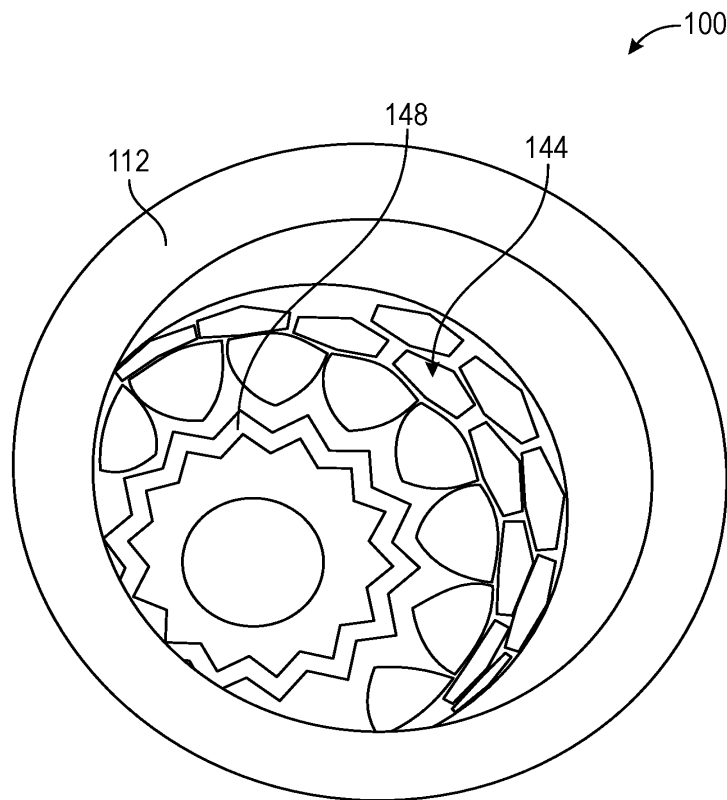


FIG. 4

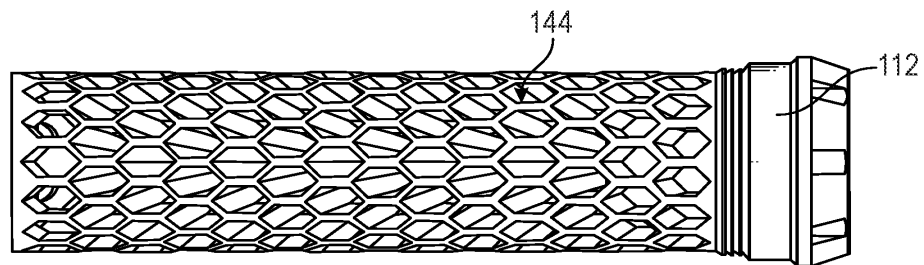


FIG. 5

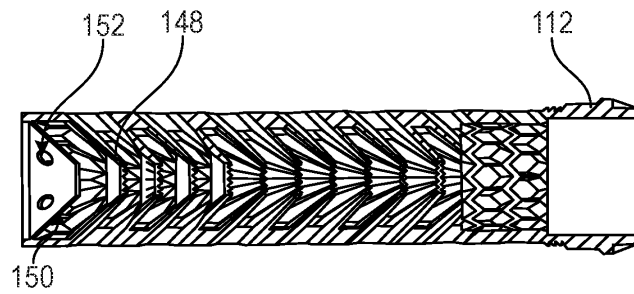


FIG. 6

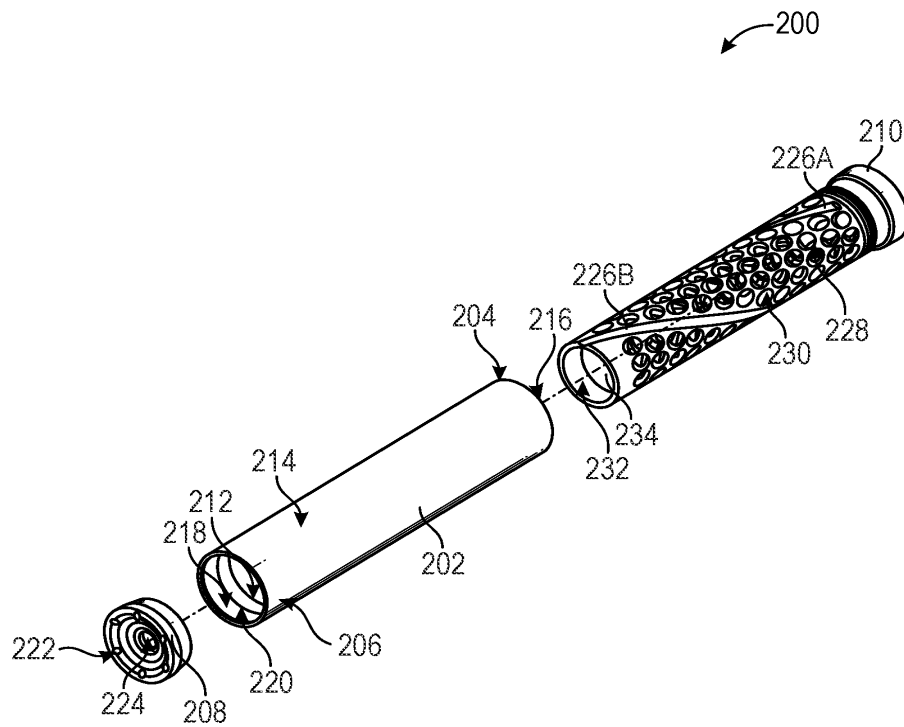


FIG. 7

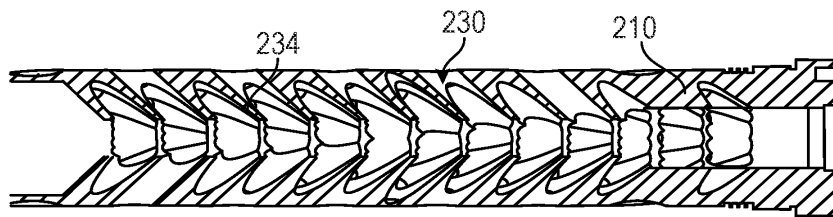
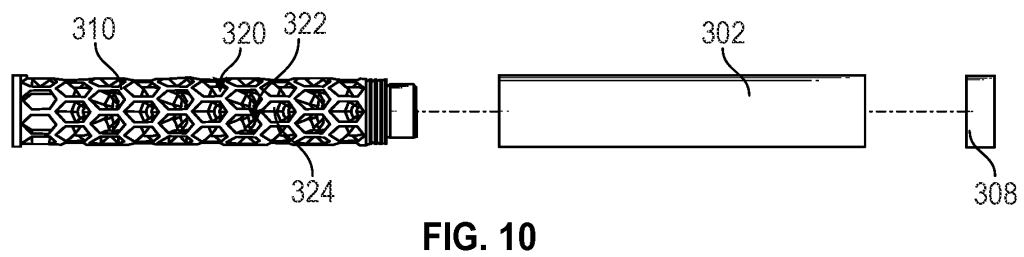
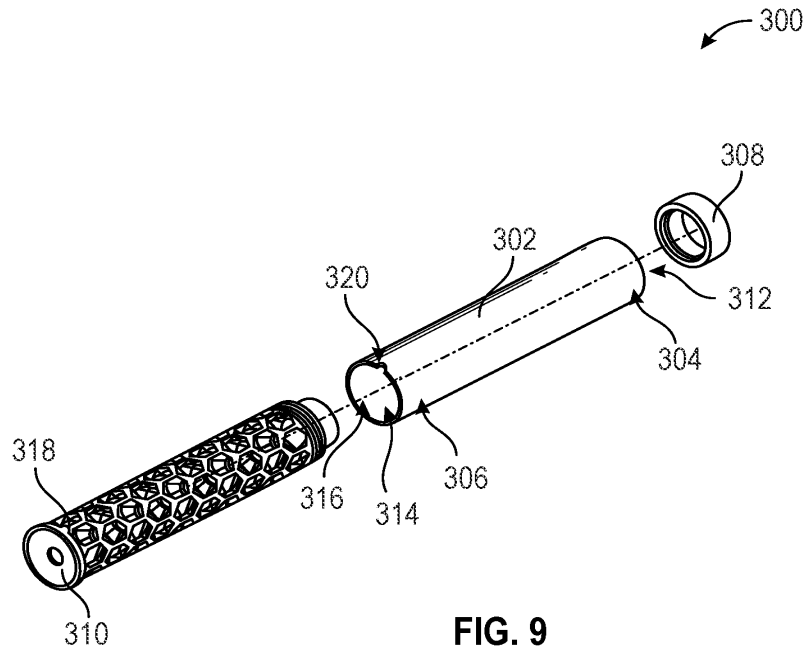


FIG. 8



9/17

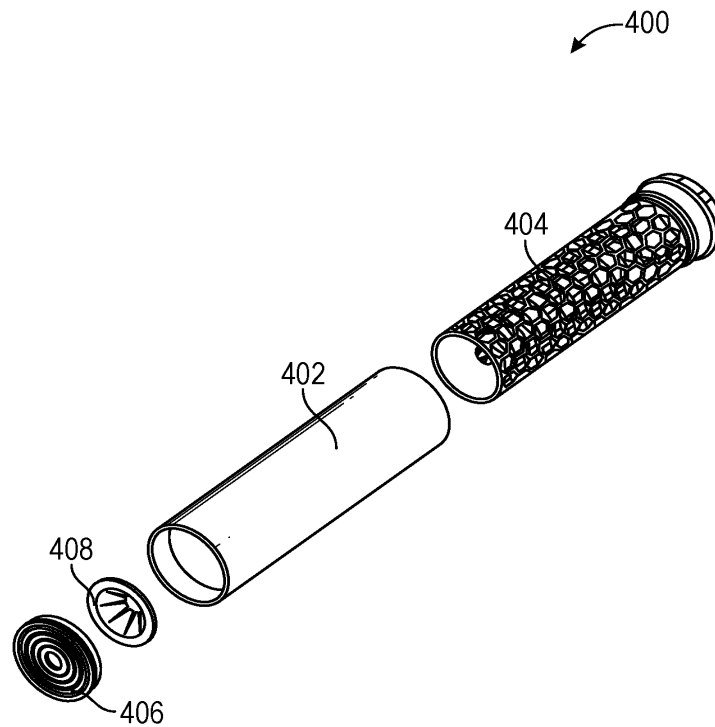


FIG. 11

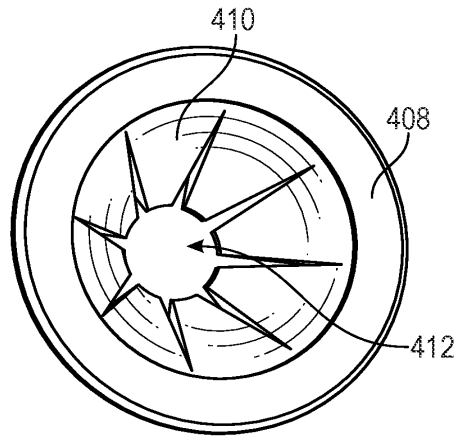


FIG. 12

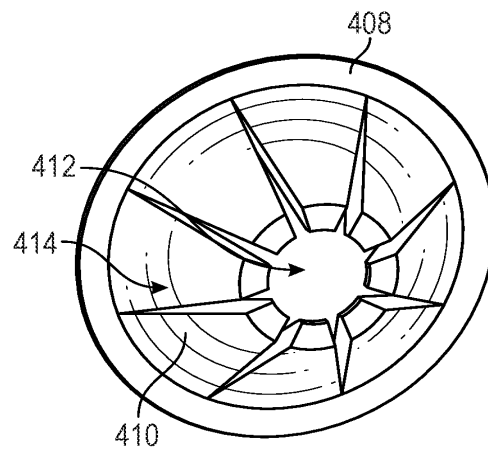


FIG. 13

11/17

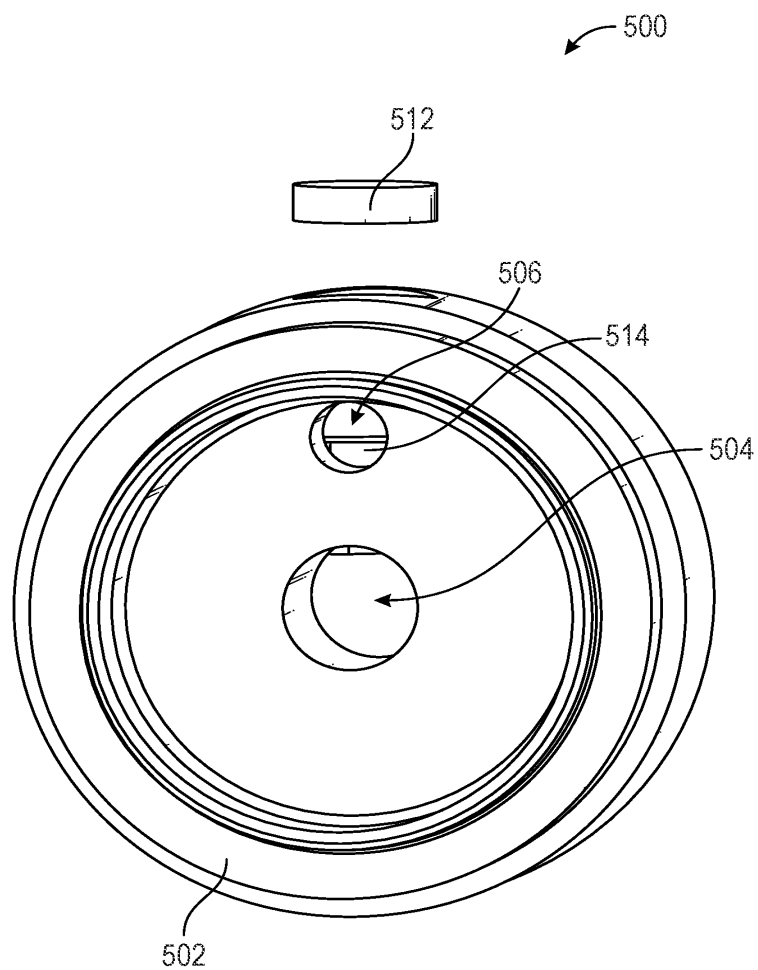


FIG. 14

12/17

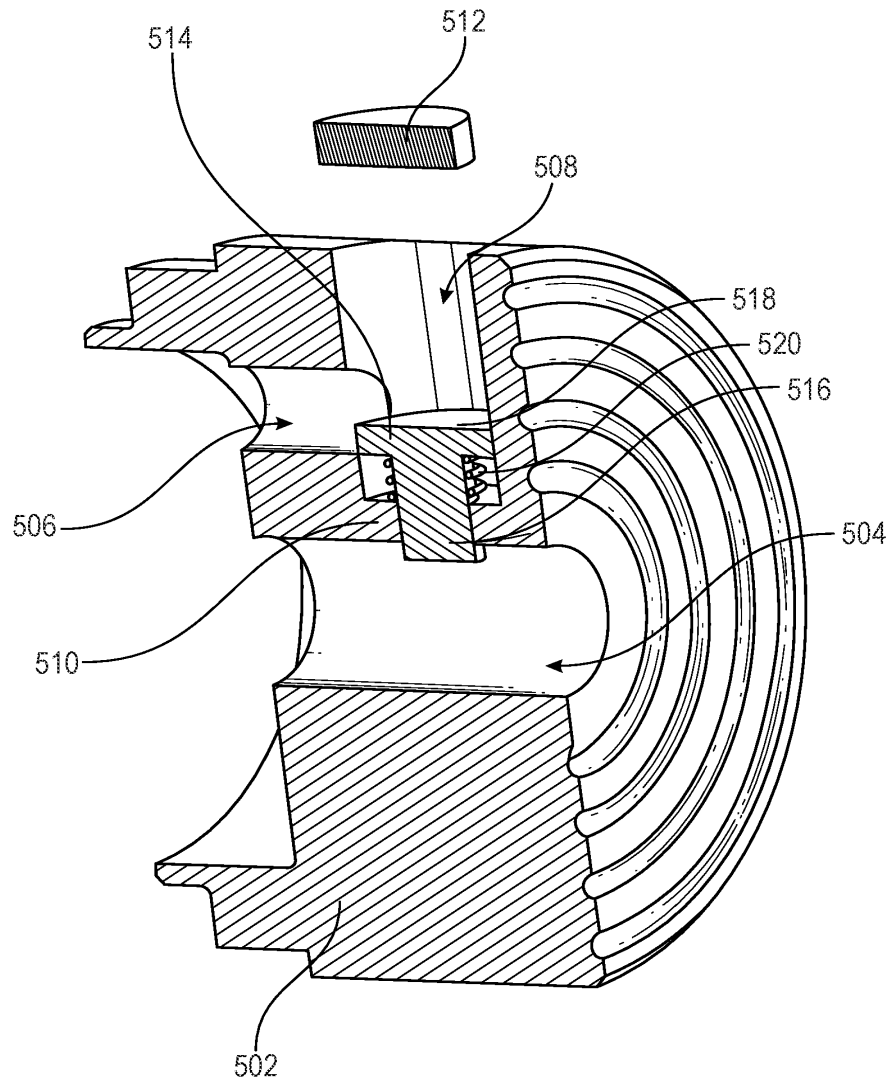


FIG. 15

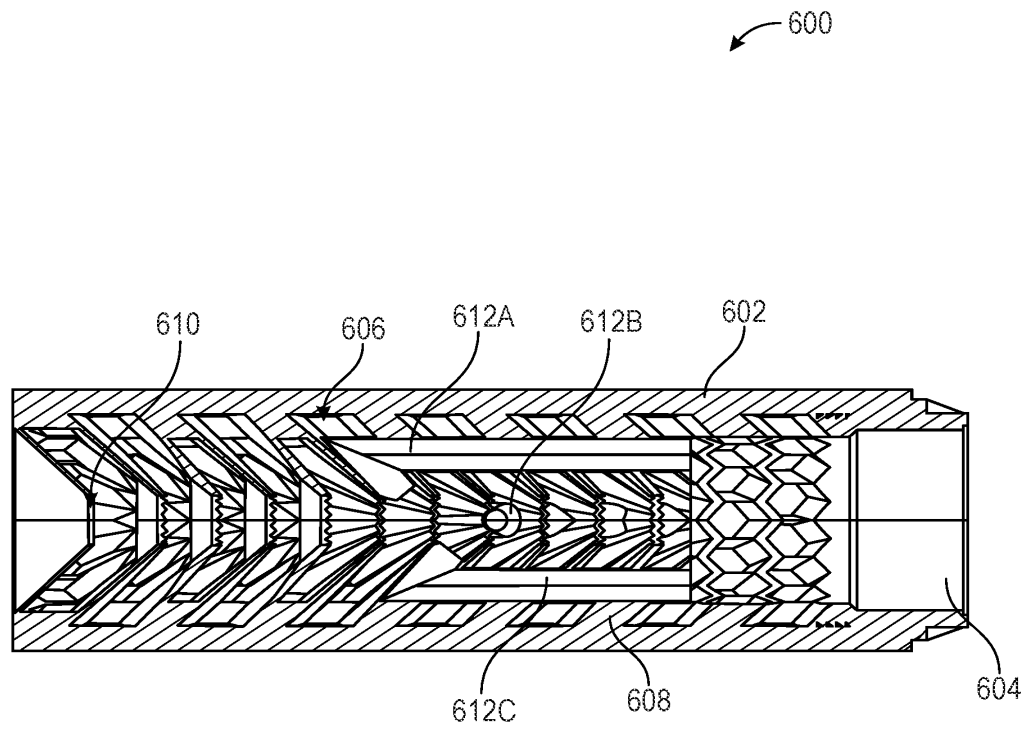


FIG. 16

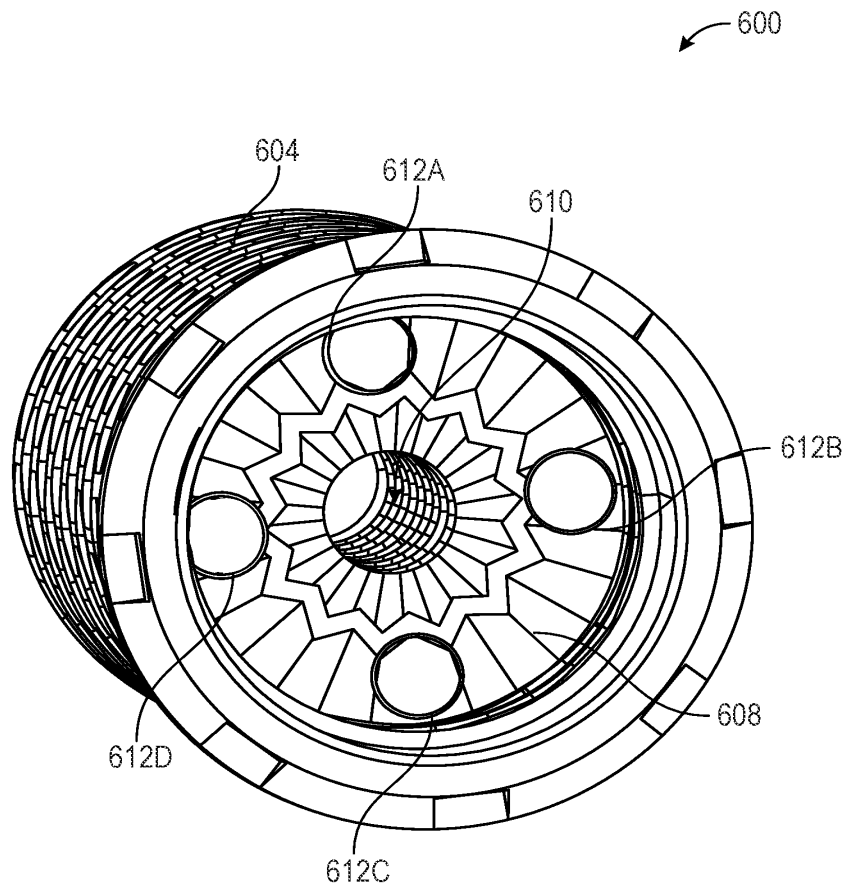


FIG. 17

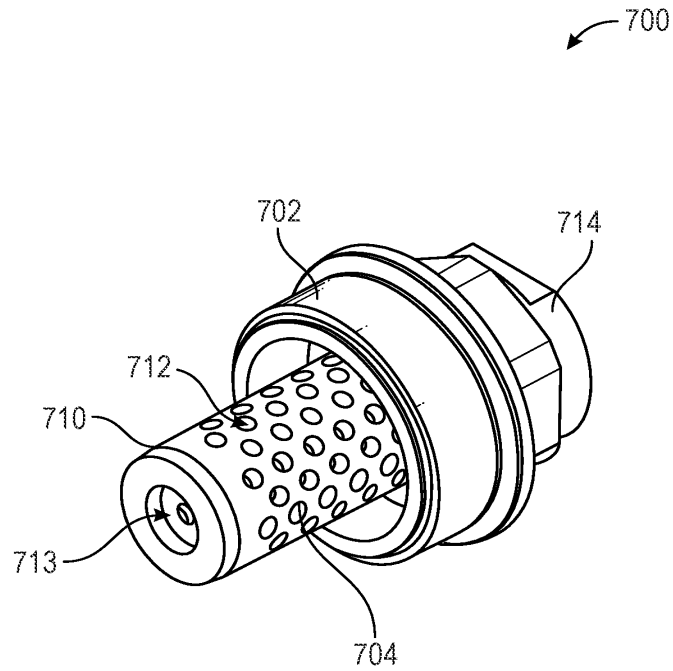


FIG. 18

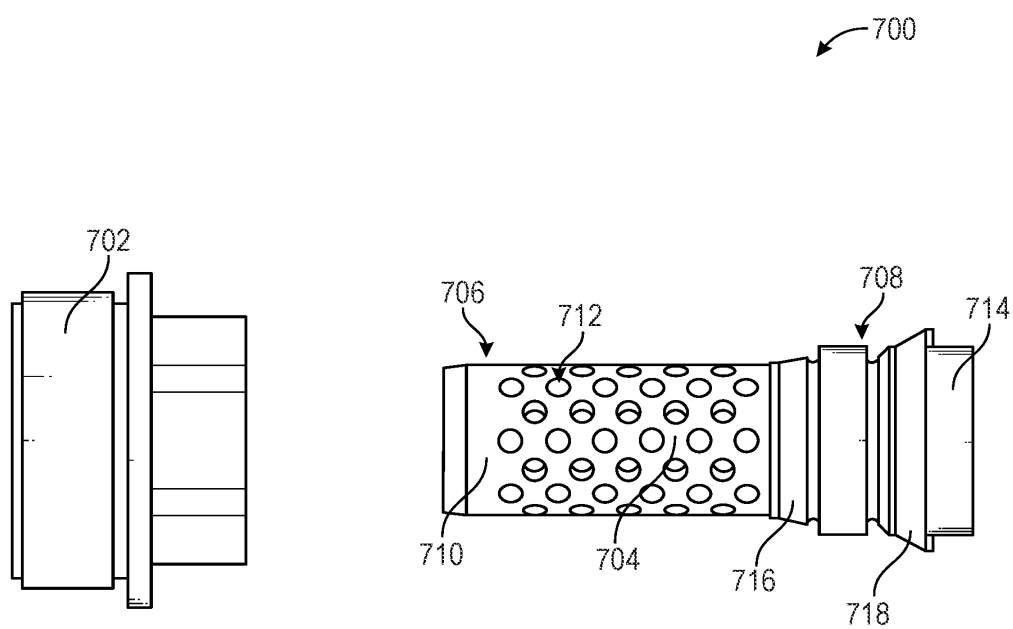


FIG. 19

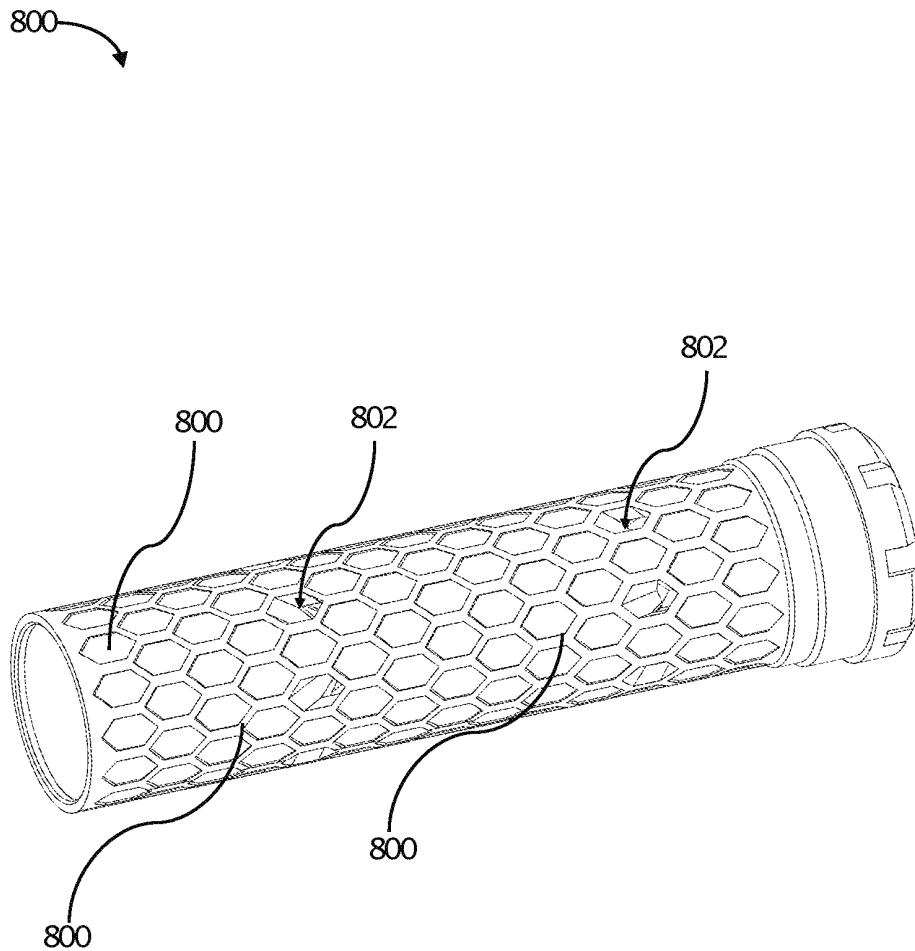


FIG. 20

ABSTRACT

A firearm suppression system includes a housing, a muzzle adapter, an end cap, and a core. The housing includes a first aperture at a first end and a second aperture at a second end. An inner compartment may be interposed between the first aperture and the second aperture. The inner compartment may be configured to receive the core. The muzzle adapter may be threadably coupled near the first end of the housing, and the end cap may be threadably coupled to the second end of the housing. The core may be removably attachable to the housing and positioned within the inner compartment of the housing. Between an outer surface of the core and the inner surface of the housing may be a channel that equalizes pressure. The outer surface of the core may comprise a plurality of apertures that lead to baffles.

CLAIMS

What is claimed is:

1. A firearm suppression system comprising:
 - a housing comprising a first end and a second end, the housing comprising:
 - a first aperture at the first end,
 - a second aperture at the second end;
 - an inner compartment interposed between the first aperture and the second aperture, the inner compartment being substantially the same circumference from the first end to the second end;
 - an end cap with a projectile aperture; and
 - a core removably attachable to the housing and positioned therein.
2. The firearm suppression system of claim 1, wherein the core is printed from a three-dimensional printer.
3. The firearm suppression system of claim 1, wherein the end cap comprises a plurality of vent apertures.
4. The firearm suppression system of claim 1, further comprising a muzzle adapter.
5. The firearm suppression system of claim 1, wherein the end cap comprises a second side that comprises a ledge that rests upon and is flush with the second end.
6. The firearm suppression system of claim 1, wherein the end cap comprises a sidewall that is positioned in the inner compartment and rests against an inner surface of the housing.
7. The firearm suppression system of claim 6, wherein the sidewall comprises threads that couple to the housing.

8. The firearm suppression system of claim 1, further comprising a channel between an inner surface of the housing and an outer surface of the core to equalize pressure that begins at the first end of the housing and terminates at the second end of the housing from a fired projectile.
9. The firearm suppression system of claim 1, further comprising a disc interposed between the end cap and the core.
10. The firearm suppression system of claim 1, wherein the core comprises a plurality of core apertures on an outer surface that allow gas passing from a projectile and cartridge to pass to a channel between the inner surface of the housing and an outer surface of the core.
11. The firearm suppression system of claim 10, wherein the plurality of core apertures is substantially hexagonal shaped.
12. The firearm suppression system of claim 10, wherein the core comprises an inner surface that includes baffles that interact with the plurality of core apertures.
13. The firearm suppression system of claim 12, wherein the baffles are extruded inward.
14. The firearm suppression system of claim 1, wherein the core includes an end cap baffle proximate the end cap in the housing, the end cap baffle comprising baffle apertures that function in tandem with a plurality of vent apertures on the end cap.
15. A firearm suppression system comprising:
 - a housing comprising a first end and a second end, the housing comprising:
 - a first aperture at the first end,
 - a second aperture at the second end,

- an inner compartment interposed between the first aperture and the second aperture, the inner compartment being substantially the same circumference from the first end to the second end;
- an end cap actuated by pressure, the end cap comprising:
- a projectile aperture;
 - a pressure channel running parallel to the projectile aperture;
 - a closure channel that is perpendicular to the pressure channel, the closure channel passing from an outer surface of the end cap to the projectile aperture;
- a core removably attachable to the housing and positioned therein, the core comprising:
- a plurality of core apertures, and
 - one or more baffles that interact with the plurality of core apertures.
16. The firearm suppression system of claim 15, wherein the end cap comprises a closure member that is positionable in the closure channel proximate the outer surface.
17. The firearm suppression system of claim 15, further comprising a key placed in the closure channel.
18. The firearm suppression system of claim 17, wherein the key comprises a head and a shaft, the shaft extendible into the projectile aperture.
19. The firearm suppression system of claim 17, wherein the key comprises a spring positioned below the head, around the shaft, and resting on a projectile ledge in the closure channel.
20. A firearm suppression system comprising:

a housing comprising a first end and a second end, the housing comprising:

- a first aperture at the first end,
- a second aperture at the second end;
- an inner compartment interposed between the first aperture and the second aperture, the inner compartment being substantially the same circumference from the first end to the second end;

a muzzle adapter threadably coupled to the first end and removably attachable to a barrel of a gun;

an end cap with a projectile aperture;

a core removably attachable to the housing and positioned therein, the core comprising:

- a plurality of core apertures,
- one or more baffles that interact with the plurality of core apertures, and
- one or more pressure reduction channels; and

a disc interposed between the end cap and the core.

UNITED STATES NON-PROVISIONAL PATENT APPLICATION

of

LONNIE JARVIS

for a

FIREARM SUPPRESSION SYSTEM

FIREARM SUPPRESSION SYSTEM

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims the benefit of U.S. Provisional Application Ser. No. 63/419,776, filed on October 27, 2022, which is incorporated herein by reference.

TECHNICAL FIELD

[0002] The present disclosure relates to firearm suppressors. More particularly, the present disclosure relates to a firearm suppression system that reduces sound, recoil, and back gassing.

BACKGROUND

[0003] Firearms have been used for many years and have been a crucial part of many societies. Throughout the centuries firearms have changed in many ways. In particular, firearms have changed in shape, in functionality, and in components used. A relatively new component in the firearm industry is a suppressor. The suppressor made its appearance in the early 1900s. Suppressors were created to reduce muzzle flash and noise. Now they have become an important part of the firearm industry. Typically, suppressors are either monocoire or baffle stack and function by utilizing a series of partitions, where expanding gases are trapped and remain until slowed and cooled before exiting the suppressor. Suppressors are often made from metal alloys, such as aluminum and stainless steel.

[0004] While suppressors on the market seek to reduce muzzle flash, noise and back gassing and increase accuracy, many fall short due to their configurations. In particular, some baffle stack suppressors may have baffles that don't work properly or as intended. Others may only reduce

flash, noise, or back gassing but not all three. For example, while some suppressors found on the market may reduce noise, they may fall short in reducing muzzle flash, back gassing and/or recoil.

[0005] Accordingly, there is a need for a suppression system that reduces flash, noise, recoil, and back gassing while increasing accuracy. The present invention seeks to solve these and other problems.

SUMMARY OF EXAMPLE EMBODIMENTS

[0006] In one embodiment, a firearm suppression system comprises a housing including a first end and a second end, a muzzle adapter, an end cap, and a core. The housing may be cylindrical-shaped. The housing may be manufactured from titanium. To manufacture the housing, the housing may be printed via a three-dimensional printer. The housing includes an inner surface and an outer surface. The housing includes a first aperture at a first end and a second aperture at a second end. An inner compartment may be interposed between the first aperture and the second aperture. The inner compartment may be configured to receive the core. The muzzle adapter may be coupled proximate the first end of the housing, and the second end of the housing may receive the end cap which is removably attachable. The muzzle adapter and end cap may include threaded fasteners so as to be threadably coupleable to the core and housing, respectively.

[0007] The end cap may be threadably coupled to the second end of the housing. Other fastening mechanisms may be envisioned. The end cap may comprise a plurality of vent apertures that allow gas from the fired cartridge to escape the firearm suppression system. The end cap may also comprise a projectile/bullet aperture where the bullet fired from a cartridge may leave the firearm and system.

[0008] The core may be removably attachable to the housing and positioned within the inner compartment of the housing. The core may be threadably coupled to the housing via the threaded fastener at the first end of the housing. Further, the core may be substantially cylindrical-shaped so as to fit within the housing. Between an outer surface of the core and the inner surface of the housing, may be a channel that equalizes pressure. The outer surface of the core may comprise a plurality of hexagonal apertures that lead to baffles that angle towards the projectile passage. The baffles may be positioned along the length of the core.

[0009] In one embodiment, a firearm suppression system comprises a housing including a first end and a second end, an end cap, and a core. The housing may comprise an inner surface and an outer surface. The housing includes a first aperture at the first end and a second aperture at the second end. An inner compartment may be interposed between the first aperture and the second aperture. The inner compartment may be configured to receive the core. The end cap may comprise a plurality of vent apertures that allow gas from the fired cartridge to escape the firearm suppression system. The end cap may also comprise a projectile/bullet aperture where the bullet fired from a cartridge may leave the gun and system. The core may be removably attachable to the housing and positioned within the inner compartment of the housing. The core may comprise a first channel and a second channel both of which wrap around an outer surface of the core and assist in removing gas from the system. The core may be printed via a three-dimensional printer. The core may comprise a plurality of core apertures that allow gas passing from the projectile and operating system to pass to the channels. The core may include an inner surface that comprises baffles that function in tandem with the plurality of core apertures.

[0010] In one embodiment, a firearm suppression system comprises a housing including a first end and a second end, a rear cap, and a core. The housing includes a first aperture at the first end

and a second aperture at the second end. An inner compartment may be interposed between the first aperture and the second aperture. The inner compartment may be configured to receive the core. The rear cap may be configured to secure the core in the housing. The core may be removably attachable to the housing and positioned within the inner compartment of the housing. The core may comprise a protrusion that lines up with and fits into a notch in the second end of the housing, thereby providing a secure fit between the core and the housing. The core may comprise a plurality of core apertures that allow gas passing from the projectile and operating system to pass via the system. The core may include an inner surface that comprises baffles that function with the plurality of core apertures.

[0011] In one embodiment, a firearm suppression system comprises a housing, a core, an end cap, and a disc. The disc (e.g., shutter) may be placed proximate the end cap. The disc may comprise a plurality of fingers pointing inward towards a second projectile aperture and the core when assembled.

[0012] In one embodiment, an end cap system may comprise an end cap that may be used with any of the other firearm suppression systems described herein. The end cap may comprise a projectile aperture, where the projectile may exit the suppression system. The end cap may comprise a pressure channel that receives pressure from the exiting projectile. The pressure channel, running parallel to the projectile aperture, may lead to an end cap closure channel, being perpendicular thereto. The end cap closure channel may lead to the projectile aperture and narrow proximate the projectile aperture, thereby creating a projectile ledge. The end cap closure channel may receive a closure member that is positioned therein. Further, a key comprising a shaft and a head may be placed in the end cap closure channel. The shaft may protrude into the projectile aperture to reduce gas flow exiting the system.

[0013] In one embodiment, a firearm suppression system comprises a housing and a core. The core may be removably attachable to the housing and positioned within the housing. An outer surface of the core may comprise a plurality of core apertures. The core may include an inner surface that comprises baffles that interact with the plurality of core apertures. These baffles may be extruded inward at various prescribed angles. Passing through one or more of the baffles may be one or more tubes. The one or more tubes may take pressure from the fired projectile from the high-pressure regions of the suppression system and direct that pressure to a low-pressure region in the opposite direction. This interruption slows the gases from exiting the firearm suppression system resulting in reduced sound.

[0014] In one embodiment, a firearm suppression system may include a first member coupleable to a muzzle brake. The muzzle brake may include a first portion and a second portion. The first portion may have a barrel with a plurality of vent apertures. The barrel may have a projectile passage. The second portion may comprise a first adapter that interacts with the first member and a barrel of a firearm. The muzzle brake may be manufactured by a three-dimensional printing process.

BRIEF DESCRIPTION OF THE DRAWINGS

[0015] FIG. 1 illustrates a side perspective view of a firearm suppression system;

[0016] FIG. 2 illustrates a partial cutaway view of a firearm suppression system;

[0017] FIG. 3 illustrates a side perspective view of a housing and a core of a firearm suppression system;

[0018] FIG. 4 illustrates a rear perspective view of a core of a firearm suppression system;

- [0019] FIG. 5 illustrates a side elevation view of a core of a firearm suppression system;
- [0020] FIG. 6 illustrates a cutaway view of a core of a firearm suppression system;
- [0021] FIG. 7 illustrates an exploded view of a firearm suppression system;
- [0022] FIG. 8 illustrates a cutaway view of a core of a firearm suppression system;
- [0023] FIG. 9 illustrates an exploded view of a firearm suppression system;
- [0024] FIG. 10 illustrates an exploded view of a firearm suppression system;
- [0025] FIG. 11 illustrates an exploded view of a firearm suppression system;
- [0026] FIG. 12 illustrates a front perspective view of a disc of a firearm suppression system;
- [0027] FIG. 13 illustrates a rear perspective view of a disc of a firearm suppression system;
- [0028] FIG. 14 illustrates a rear perspective view of an end cap of a firearm suppression system;
- [0029] FIG. 15 illustrates a cutaway view of an end cap of a firearm suppression system;
- [0030] FIG. 16 illustrates a cutaway view of a firearm suppression system;
- [0031] FIG. 17 illustrates a rear perspective view of a core of a firearm suppression system;
- [0032] FIG. 18 illustrates a perspective view of a firearm suppression system;
- [0033] FIG. 19 illustrates a side elevation view of a firearm suppression system; and
- [0034] FIG. 20 illustrates a side perspective view of a core of a firearm suppression system.

DETAILED DESCRIPTION OF EXAMPLE EMBODIMENTS

[0035] While embodiments of the present disclosure may be subject to various modifications and alternative forms, specific embodiments have been shown by way of example in the drawings and will be described in detail herein. However, the present disclosure is not intended to be limited to the particular features, forms, components, etc. disclosed. Rather, the present disclosure will cover all modifications, equivalents, and alternatives falling within the scope of the present disclosure.

[0036] Reference to the invention, the present disclosure, or the like are not intended to restrict or limit the invention, the present disclosure, or the like to exact features or steps of any one or more of the exemplary embodiments disclosed herein. References to “one embodiment,” “an embodiment,” “alternate embodiments,” “some embodiments,” and the like, may indicate that the embodiment(s) so described may include a particular feature, structure, or characteristic, but not every embodiment necessarily includes the particular feature, structure, or characteristic.

[0037] Any arrangements herein are meant to be illustrative and do not limit the invention's scope. Although specific terms are employed herein, they are used in a generic and descriptive sense only and not for purposes of limitation. Unless otherwise defined herein, such terms are intended to be given their ordinary meaning not inconsistent with that applicable in the relevant industry and without restriction to any specific embodiment hereinafter described.

[0038] It will be understood that the steps of any such processes or methods are not limited to being carried out in any particular sequence, arrangement, or with any particular graphics or interface. In fact, the steps of the disclosed processes or methods generally may be carried out in various, different sequences and arrangements while still being in the scope of the present invention. Certain terms are used herein, such as “comprising” and “including,” and similar

terms are meant to be “open” and not “closed” terms. These terms should be understood as, for example, “including, but not limited to.”

[0039] As previously described, there is a need for a suppression system that reduces flash, noise, and back gassing while increasing accuracy. The present invention seeks to solve these and other problems.

[0040] The firearm suppression system described herein is configured to optimize the relationships between sound, recoil, and back gassing. It will be understood that various embodiments of the firearm suppression system may optimize one relationship over another. For example, in one embodiment, the firearm suppression system may seek to prevent back gassing. The firearm system may comprise a housing, a core, and an end cap. The core may be a three-dimensional printed mono-core. The core may include hexagonal-shaped apertures (e.g., honey comb shaped) that connect to and function with baffles. The core may be positioned in the housing. In some embodiments, the core and housing may be printed or manufactured as a single unit. It will be understood that due to the configuration of the core and housing, the firearm suppression system essentially eliminates back gassing. Further, the back gassing is diminished by pressure equalizing technology (PET). PET is the process in which high-pressure gases entering into the core and housing immediately fills the entire volume of the housing. By filling the entire area of the housing, the pressure from the gas operated gun is lowered and equalized.

[0041] Because of the unique configuration of the housing and the core, the firearm suppression system can manage gas flows and baffle angles in order to statistically balance sound, recoil, and back gassing to optimize performance. Other suppressors on the market have struggled to reduce sound and back gassing in a suppressor due to the inverse relationship between the two. It will be appreciated that some embodiments of the firearm suppression system are statistically balanced

so as to reduce or eliminate the effects of back gassing into the user's face when operating a gas operated firearm, such as an automatic rifle, while also making it hearing safe. Because these are inverse relationships others in the past have not been able to design a product that can accomplish both items – reducing noise and back gassing.

[0042] As shown in Figs. 1-6, in one embodiment, a firearm suppression system 100 comprises a housing 102 including a first end 104 and a second end 106, a muzzle adapter 108, an end cap 110, and a core 112. The housing 102 may be cylindrical-shaped. In some embodiments, the housing 102 may be rectangular-shaped or any other shape may be envisioned. In some embodiments, an inner surface 114 of the housing 102 may be substantially circular in shape while an outer surface 116 of the housing 102 is, for example, rectangular shaped. It could be envisioned that the housing 102 may vary in circumference and in length. That is, different calibers, from .17 caliber to .30 caliber, may use different sizes of housings, or the same size of housing. For example, a first size of housing 102 may be used for a .22 caliber firearm while a second size of housing may be used for a .30 caliber. The housing 102 and the core 112 may be custom made, in some embodiments, for a specific caliber. It will be appreciated that there may be any number of housing sizes. The housing 102 may be manufactured from titanium. Other housing materials may include, but are not limited to, aluminum, steel, or carbon fiber. To manufacture the housing 102, the housing 102 may be printed via a three-dimensional printer, milled, or manufactured by any other means known in the art. In some embodiments, the core and housing may be printed or manufactured as a single unit without multiple removable components.

[0043] Furthermore, the housing 102 includes the inner surface 114 and the outer surface 116, both of which may create a cylindrically-shaped housing. The housing 102 includes a first aperture 118 at the first end 104 and a second aperture 120 at the second end 106. An inner compartment

122 may be interposed between the first aperture 118 and the second aperture 120. The inner compartment 122 may be substantially the same circumference from the first end 104 to the second end 106. As shown, the inner compartment 122 may be configured to receive the core 112.

[0044] Proximate the first end 104 of the housing 102 may be the muzzle adapter 108 that is removably attachable to the core and/or housing, and the second end 106 of the housing 102 may comprise the end cap 110 that is removably attachable thereto. In some embodiments, the muzzle adapter 108 may be present in the core 112 and/or housing 102 so as to be directly threaded onto a firearm. The muzzle adapter 108 and end cap 110 may include threaded fasteners 124 so as to be threadably coupleable to housing 102 and/or the core 112. In some embodiments, the muzzle adapter 108 may be 1 3/8" x 24 Threads Per Inch, which is a universal attachment for many firearms. Accordingly, the firearm suppression system 100 may be coupled to numerous different types of firearms.

[0045] The end cap 110 may be threadably coupled to the second end 106 of the housing 102. Other fastening mechanisms may be envisioned. The end cap 110 may rest against the second end 106 of the housing 102. Further, the end cap 110 may have a circumference that matches the circumference of the housing 102, thereby making the end cap 110 flush with the housing 102. However, it will be understood that the end cap 110 may be numerous circumferences. As illustrated in Fig. 2, the end cap 110 may comprise a plurality of vent apertures 126 that allow gas from the fired cartridge to escape the firearm suppression system 100 and, more particularly, the inner compartment 122. The plurality of vent apertures 126 may be spaced apart and positioned in an annular formation on the end cap 110, or may be in any other formation. The end cap 110 may also comprise a projectile/bullet aperture 128 where the bullet fired from a cartridge may leave the gun and system 100. The end cap 110 may be machined from a solid

piece of material, such as aluminum, steel, or titanium. In some embodiments, the end cap 110 may be printed via a three-dimensional printer out of titanium, plastics, or any other material. The end cap 110 includes a first side 130 facing outward away from the housing 102 and a second side 132 facing inward towards the inner compartment 122 and firearm's muzzle. The first side 130 of the end cap 110 may be concave. With the first side 130 being concave, less material is needed, which reduces the weight of the end cap 110 and the firearm suppression system 100 overall. The end cap 110 may have annular ridges 134 increasing in diameter as they move from the projectile aperture 128 outward. In some embodiments, the first side 130 may be convex. While in other embodiments, the first side 130 may be flat. The second side 132 of the end cap 110 includes a ledge 136 that rests on and is flush with the second end 106 of the housing 102. A sidewall 138 that couples to the ledge 136 may be an annular protrusion that contacts the inner surface 114 of the housing 102. The sidewall 138 may be threaded. To insert the end cap 110 into the housing 102, a user may use a tool or their fingers to engage the end cap 110 with the threaded fastener 124 until the end cap 110 is tightly secured. At times, the firearm suppression system 100 may operate without an end cap 110, thereby allowing the gasses to exit the inner compartment 122. In some embodiments, a disc may be interposed between the end cap 110 and the core 112. With the disc positioned thereinbetween, additional noise reduction may be experienced. The disc may be a circumference that reflects the circumference of the inner compartment 122.

[0046] The core 112 may be removably attachable to the housing 102 and positioned within the inner compartment 122 of the housing 102. It will be appreciated that the core 112 may easily be removed from the housing 102 and cleaned, thereby making maintenance of the firearm suppression system 100 simple. The core 112 may be threadably coupled to the housing 102 via

the threaded fastener 124 at the first end 104 of the housing 102. Further, the core 112 may be substantially cylindrical-shaped so as to fit within the housing 102. Between an outer surface 140 of the core 112 and the inner surface 114 of the housing 102, there may be a channel 142 that equalizes pressure. The channel 142 may surround the core 360 degrees starting at the first end 104 of the housing 102 and ending at the second end 106 of the housing 102. The channel 142 allows the incoming high pressure to enter into the core 112, immediately flow to the outside of the core between the housing 102 and the core 112 and proceed down the entire length of the firearm suppression system 100. This equalizes the high pressures gas through the entire system 100 rapidly so that high pressure is converted to low pressure, which means that the operating system of the firearm is not affected as it typically would be with high pressure. Due to this, there is a reduction or elimination of additional gases that travel back through the gun's operating system and into the user's face. As such, the pressure channel 142 equalizes pressure and moves the pressure towards and out of the vent apertures 126. In some embodiments, the firearm suppression system 100 may lack vent apertures 126 which may, for example, achieve greater sound reduction. The core 112 may be printed via a three-dimensional printer, or manufactured by other means known in the art. The core 112 may be titanium, aluminum, ceramic, or other materials known in the art. It will be appreciated that numerous cores may be used with a single housing 102 so as to allow a user to switch cores to address a particular caliber.

[0047] The outer surface 140 of the core 112 may comprise a plurality of core apertures 144 that allow gas passing from the projectile and operating system to pass to the channel 142. The plurality of core apertures 144 may be substantially hexagonal shaped and have the appearance of a honeycomb. However, in other embodiments, the plurality of core apertures 144 may be circular, square shape, or any other shape. As shown in Figs. 4 and 6, the core 112 may include an inner

surface 146 that comprises baffles 148 that interact with the plurality of core apertures 144 (Fig. 5). These baffles 148 may be extruded inward at various prescribed angles (Fig. 6). The baffles 148 may be angled between 30 degrees to 70 degrees, but more preferably between 40 degrees to 60 degrees. With baffles 148 being set between the aforementioned ranges, the baffles 148 have additional surface area for heat transfer, thereby reducing the effects of the gasses from the fired projectile. A front end 150 of the core 112, positioned near the end cap 110, may include a baffle (e.g., end cap baffle) with baffle apertures 152 to allow additional gas to escape the core 112 and the firearm suppression system 100. In some embodiments, gases moving down the length of the housing 102 may contact the end cap 110 and re-enter the last baffle so as to exit the baffle apertures 152, which lead to the vent apertures 126. The baffles 148 may be positioned along the length of the core 112. The configuration of the baffles 148 may be generally conically shaped with a hexagonal-like border circumscribing the baffles 148. In some embodiments, the baffles may be corrugated, star shaped, diamond shaped, or any other shape to maximize surface area. It will be appreciated that the configuration of the baffles 148 increases and maximizes surface area for cooling hot gases from the exiting projectile quicker while passing through the system 100. The baffles 148 may angle downward until a projectile passage 154, which may be located at the center of the core and center of the baffles 148 that extends from one end to the other.

[0048] Because of the design of the core 112, the system 100 can be optimized to get the desired relationship between sound, recoil, and back gassing. In other suppressors found on the market, the gas enters at a high pressure and moves from baffle to baffle filling each area with gas. Then the gas moves to the next baffle to be filled. While the gasses are being slowed down as they move forward, until the gas fills the entire suppressor and the pressure is progressively decreased. Then high pressure is present during the operating system's cycle time. During this

time, the high-pressure travels back through the gas tube and increases the gasses flowing to the operating system. This causes increased gasses in the user's face, increased bolt velocity, and increased sound to the user's ears. While this process is efficient in reducing sound on non-gas operated guns, it has a negative effect on back gassing with gas operated firearms. In another popular design, the suppressor uses "flow through technology," which does not use baffles to slow the gas but uses chambers that flow gases back and forth and out the end of the suppressor. This design is low pressure and is good for back gassing but not for sound reduction. Accordingly, the firearm suppression system 100 addresses both back-gassing and sound reduction to a hearing safe level on gas operated systems, like an AR, by statistically optimizing the relationship between them. The system 100 may also reduce first round pop based upon its configuration. It may also be appreciated that the system utilizes a monocoque with baffles positioned therein to reduce sound, recoil, and back gassing.

[0049] As shown in Figs. 7-8, in one embodiment, a firearm suppression system 200 comprises a housing 202 including a first end 204 and a second end 206, an end cap 208, and a core 210. The housing 202 may be cylindrical shaped. In some embodiments, the housing 202 may be rectangular shaped or any other shape may be envisioned. The housing 202 may comprise an inner surface 212 and an outer surface 214. It could be envisioned that the housing 202 may vary in circumference and in length. To manufacture the housing 202, the housing 202 may be printed via a three-dimensional printer, milled, or manufactured by any other means known in the art. The housing 202 includes a first aperture 216 at the first end 204 and a second aperture 218 at the second end 206. An inner compartment 220 may be interposed between the first aperture 216 and the second aperture 218. The inner compartment 220 may be configured to receive the core 210.

[0050] The end cap 208 may be threadably coupled to the second end 206 of the housing 202. Other fastening mechanisms may be envisioned. The end cap 208 may rest against the second end 206 of the housing 202. Further, the end cap 208 may have a circumference that matches the circumference of the housing 202, thereby making the end cap 208 flush with the housing 202. The end cap 208 may comprise a plurality of vent apertures 222 that allow gas from the fired cartridge to escape the firearm suppression system 200 and, more particularly, the inner compartment 220. The end cap 208 may also comprise a projectile/bullet aperture 224 where the bullet fired from a cartridge may leave the gun and system 200.

[0051] The core 210 may be removably attachable to the housing 202 and positioned within the inner compartment 220 of the housing 202. The core 210 may be threadably coupled to the housing 202 at the first end 204 of the housing 202. Further, the core 210 may be substantially cylindrical shaped so as to fit within the housing 202. The core 210 may comprise a first channel 226A and a second channel 226B both of which wrap around an outer surface 228 of the core 210 and assist in removing gas from the system 200. The core 210 may be printed via a three-dimensional printer, or manufactured by other means known in the art. The core 210 may be titanium, aluminum, ceramic, or other materials known in the art. The outer surface 228 of the core 210 may comprise a plurality of core apertures 230 that allow gas passing from the projectile and operating system to pass to the channels 226A, 226B. The plurality of core apertures 230 may be ovular shaped, or any other shape. The core 210 may include an inner surface 232 that comprises baffles 234 that couple to the plurality of core apertures 230. These baffles 234 may be extruded inward at a prescribed angle. The baffles 234 may be positioned along the length of the core 210. The configuration of the baffles 234 may be generally conically shaped. It will be appreciated that the configuration of

the baffles 234 increase surface area for cooling hot gases from the exiting projectile quicker while passing through the system 200.

[0052] As shown in Figs. 9-10, in one embodiment, a firearm suppression system 300 comprises a housing 302 including a first end 304 and a second end 306, a rear cap 308, and a core 310. The housing 302 may be cylindrical shaped. The housing 302 may be printed via a three-dimensional printer, milled, or manufactured by any other means known in the art. The housing 302 includes a first aperture 312 at the first end 304 and a second aperture 314 at the second end 306. An inner compartment 316 may be interposed between the first aperture 312 and the second aperture 314. The inner compartment 316 may be configured to receive the core 310. The rear cap 308 may be threadably coupled to the first end 304 of the housing 302. The rear cap 308 may rest against the first end 304 of the housing 302. The rear cap 308 may be configured to secure the core 310 in the housing 302.

[0053] The core 310 may be removably attachable to the housing 302 and positioned within the inner compartment 316 of the housing 302. The core 310 may be threadably coupled to the housing 302 via the rear cap 308. Further, the core may comprise a protrusion 318 that lines up with and fits into a notch 320 in the second end 306 of the housing 302, thereby providing a secure fit between the core 310 and the housing 302. Further, the core 310 may be substantially cylindrical shaped so as to fit within the housing 302. The core 310 may be printed via a three-dimensional printer, or manufactured by other means known in the art. The core 310 may be titanium, aluminum, ceramic, or other materials known in the art. The core 310 may comprise a plurality of core apertures 320 that allow gas passing from the projectile and operating system to pass via the system 300. The plurality of core apertures 320 may be hexagonal shaped. The core 310 may include an inner surface 322 that comprises baffles 324 that couple to the plurality of core apertures

320. It will be appreciated that the configuration of the baffles 324 increase surface area for cooling hot gases from the exiting projectile quicker while passing through the system 300.

[0054] As shown in Figs. 11-13, in one embodiment, a firearm suppression system 400 comprises a housing 402, a core 404, an end cap 406, and a disc 408. The housing 402, the core, 404, and the end cap 406 may be similar to any of the previously discussed embodiments, such as embodiment 100. The disc 408 (e.g., shutter) may be placed proximate the end cap 406. In some embodiments, the disc 408 and its functions may be incorporated into the end cap 406, or in other words may be the end cap 406. In other embodiments, the disc/shutter 408 may be a single unit with the core and other limitations, being manufactured from a single piece of material. The disc 408 may comprise a plurality of fingers 410, generally triangular shaped, pointing inward towards a second projectile aperture 412 and the core 404 when assembled. As the pressure from a bullet contacts an inner face 414 of the disc 408 and temporarily restricts the diameter of the second projectile aperture 412 to a smaller diameter. After the pressure is lowered, the second projectile aperture 412 returns to its resting diameter. It will be appreciated that the disc 408 may be produced in numerous configurations, such as any apparatus that is triggered by pressure which restricts the gas flow from exiting the aperture or apertures of the system or directly integrated with an end cap.

[0055] As shown in Figs. 14-15, in one embodiment, an end cap system 500 may comprise an end cap 502 that may be used with any of the other firearm suppression systems 100, 200, 300, 400. The end cap 502 may be actuated by pressure. That is, pressure from gasses after a bullet is fired may close a projectile aperture 504 a designated amount, similar to a shutter. This may happen as soon as the bullet/projectile exits the system 500, which produces a quieter system by slowing the release of gases outside of the fire suppression system. The end cap 502 may comprise the

projectile aperture 504, where the projectile may exit the suppression system. The end cap 502 may comprise a pressure channel 506 that receives pressure from the exiting projectile. The pressure channel 506, running parallel to the projectile aperture 504, may lead to an end cap closure channel 508, being perpendicular thereto. The end cap closure channel 508 may lead to the projectile aperture 504 and narrow proximate the projectile aperture 504, thereby creating a projectile ledge 510. The end cap closure channel 508 may receive a closure member 512 that is positioned therein. Further, a key 514 may comprise a shaft 516 and a head 518 may be placed in the end cap closure channel 508. More particularly, the shaft 516 may comprise a spring 520 that is positioned under the head 518 and down the shaft 516, resting on the projectile ledge 510. The shaft 516 may protrude into the projectile aperture 504. The pressure enters into a pathway in the end cap 502, pushes down on the key 514, compresses the spring 520 and moves the shaft 516 into the projectile aperture 504 to restrict the flow of gases.

[0056] As shown in Figs. 16-17, in one embodiment, a firearm suppression system 600 comprises a housing 602 and a core 604. The core 604 may be removably attachable to the housing 602 and positioned within the housing 602. It will be appreciated that the core 604 may be easily removed from the housing 602 and cleaned, thereby making maintenance of the firearm suppression system 600 simple. The core 604 may be threadably coupled to the housing 602. Further, the core 604 may be substantially cylindrical shaped so as to fit within the housing 602. The core 604 may be printed via a three-dimensional printer, or manufactured by other means known in the art. The core 604 may be titanium, aluminum, ceramic, or other materials known in the art. It will be appreciated that numerous cores may be used with a single housing 602 so as to allow a user to switch cores to address a particular caliber.

[0057] An outer surface of the core 604 may comprise a plurality of core apertures 606. The plurality of core apertures 606 may be substantially hexagonal shaped and have the appearance of a honeycomb. The core 604 may include an inner surface that comprises baffles 608 that interact with the plurality of core apertures 606. These baffles 608 may be extruded inward, toward a muzzle when coupled to a firearm, at various prescribed angles. The baffles 608 may be angled between 30 degrees to 70 degrees, but more preferably between 40 degrees to 60 degrees. With baffles 608 being set between the aforementioned ranges, the baffles 608 have additional surface area for heat transfer, thereby reducing the effects of the gasses from the fired projectile. The baffles 608 may be positioned along the length of the core 604. The configuration of the baffles 608 may be generally conically shaped with a hexagonal-like border circumscribing the baffles 608. In some embodiments, the baffles 608 may be corrugated, star shaped, diamond shaped, or any other shape to maximize surface area. It will be appreciated that the configuration of the baffles 608 increases and maximizes surface area for cooling hot gases from the exiting projectile quicker while passing through the system 600. The baffles 608 may angle downward until a projectile passage 610, which may be located at the center of the core 604 and center of the baffles 608 that extends from one end to the other. Passing through one or more of the baffles 608 may be one or more tubes 612A, 612B, 612C, 612D, or pressure reduction channels. That is, for example, a first tube may pass through four baffles while a second tube may pass through three baffles. In some embodiments, channels may replace the one or more tubes 612A, 612B, 612C, 612D, thereby allowing additional gasses to be released throughout the system. The one or more tubes 612A, 612B, 612C, 612D may be generally parallel with the projectile passage 610 until an end portion that may be at an angle (e.g., 70-90 degrees) so as to redirect pressure towards the baffle where the one or more tubes 612A, 612B, 612C, 612D ends and eventually

towards the projectile passage 610. Accordingly, the one or more tubes 612A, 612B, 612C, 612D may take pressure from the fired projectile from the high-pressure regions of the suppression system 600 and direct that pressure to a low-pressure region in the opposite direction. For example, this high-pressure gas collides with the gases flowing down the center of the suppressor, the projectile passage 610, causing an interruption to the gas flow. This interruption slows the gases from exiting the firearm suppression system 600 resulting in reduced sound.

[0058] As shown in Figs. 18-19, in one embodiment, a firearm suppression system 700 may include a first member 702 coupleable to a muzzle device 704 (e.g., muzzle brake or flash hider), both of which may resemble and have similar functionality to the muzzle adapter 108 in embodiment 100 and shown in Fig. 2. The muzzle brake 704 may include a first portion 706 and a second portion 708. The first portion 706 may have a barrel 710 with a plurality of vent apertures 712. The barrel 710 may have a projectile passage 713. The second portion 708 may comprise a first adapter 714 that interacts with the first member 702 and a barrel of a firearm. The first adapter 714 may comprise a first taper 716 that aligns and prevents gasses from escaping and a second taper 718 that aligns and secures the firearm suppression system 700. The first taper 716 and the second taper 718 may have corresponding tapers that they interact with in the first member 702. The firearm suppression system 700 is a fixed taper system. The muzzle brake 704 may be manufactured by a three-dimensional printing process. In some embodiments, the muzzle brake system 700 may comprise a housing/shell that is removably attachable and encases the muzzle brake 704. Length and width of the muzzle brake 704 may vary.

[0059] As shown in Fig. 20, in one embodiment, a core 800 may comprise one or more vent apertures 802 and a plurality of sealed vent apertures 804. Both the one or more vent apertures 802

and the plurality of sealed vent apertures 804 may lead to baffles, similar to the embodiments discussed above. It will be appreciated that with a few vent apertures 802 only small amounts of pressure may be released therethrough and the gasses exiting through the vent apertures 802 may be redirected through various other vent apertures 802 and back towards the projectile aperture in the core.

[0060] It will be understood that while various embodiments have been disclosed herein, other embodiments are contemplated. Further, certain embodiments of the present disclosure may include, incorporate, or otherwise comprise properties or features described in other embodiments. Consequently, various features of certain embodiments can be compatible with, combined with, included in, and/or incorporated into other embodiments of the present disclosure. Therefore, disclosure of certain features or components relative to a specific embodiment of the present disclosure should not be construed as limiting the application or inclusion of said features or components to the specific embodiment unless stated. As such, other embodiments can also include said features, components, members, elements, parts, and/or portions without necessarily departing from the scope of the present disclosure.

[0061] The embodiments described herein are examples of the present disclosure. Accordingly, unless a feature or component is described as requiring another feature or component in combination therewith, any feature herein may be combined with any other feature of a same or different embodiment disclosed herein. Although only a few of the example embodiments have been described in detail herein, those skilled in the art will appreciate that modifications are possible without materially departing from the present disclosure described herein. Accordingly, all modifications may be included within the scope of this invention.

CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION UNDER 37 CFR 1.102(e) (Page 1 of 1)			
First Named Inventor:	LONNIE JARVIS	Nonprovisional Application Number (if known):	
Title of Invention:	FIREARMSUPPRESSIONSYSTEM		
APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.			
1. The processing fee set forth in 37 CFR 1.17(i), the prioritized examination fee set forth in 37 CFR 1.17(c), and if not already paid, the publication fee set forth in 37 CFR 1.18(d) have been filed with the request. The basic filing fee, search fee, examination fee, and any required excess claims and application size fees are filed with the request or have been already been paid. 2. The application contains or is amended to contain no more than four independent claims and no more than thirty total claims, and no multiple dependent claims. 3. The applicable box is checked below: I. ☒ Original Application (Track One) - Prioritized Examination under § 1.102(e)(1) i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web. ---OR--- (b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper. ii. An executed oath or declaration under 37 CFR 1.63 is filed with the application. II. ☐ Request for Continued Examination - Prioritized Examination under § 1.102(e)(2) i. A request for continued examination has been filed with, or prior to, this form. ii. If the application is a utility application, this certification and request is being filed via EFS-Web. iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371. iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination. v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).			
Signature /Brian D. Batt/		Date 10/23/2023	
Name (Print/Typed) Brian D. Batt		Practitioner Registration Number 77779	
Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required in accordance with 37 CFR 1.33 and 1.18. Please see 37 CFR 1.4(d) for the form of the signature. If necessary, submit multiple forms for more than one signature, see below*.			
*Total of _____ forms are submitted.			

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 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).
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 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 Acknowledgement Receipt	
EFS ID:	48752493
Application Number:	18382845
International Application Number:	
Confirmation Number:	2084
Title of Invention:	FIREARM SUPPRESSION SYSTEM
First Named Inventor/Applicant Name:	Lonnie Jarvis
Customer Number:	181674
Filer:	Brian Dale Batt
Filer Authorized By:	
Attorney Docket Number:	22-160.NP
Receipt Date:	23-OCT-2023
Filing Date:	
Time Stamp:	16:39:17
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$1232
RAM confirmation Number	E20230MG40148639
Deposit Account	604452
Authorized User	Brian Batt
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)					
37 CFR 1.20 (Post Issuance fees)					
37 CFR 1.21 (Miscellaneous fees and charges)					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal of New Application	2023-10-23-Utility-Transmittal-JARVIS.pdf	285371	no	2
			e76891b6653f43fcefcb0abab18c0b0b26978729		
Warnings:					
Information:					
2	Application Data Sheet	2023-10-23-ADS-Jarvis.pdf	2225819	no	8
			c0be3d9c21d67806e8303c6b1406d920e59344eb		
Warnings:					
Information:					
3	Certification of Micro Entity (Gross Income Basis)	2023-10-23-Micro-Entity.pdf	119681	no	2
			1689e66d1043dbdbbd0e64e41f870b88fcbcd1226		
Warnings:					
Information:					
4	Oath or Declaration filed	2023-10-23-Oath-Jarvis.pdf	176176	no	2
			467e50daf2011c7c318d41ac60d2deedf27cf212		
Warnings:					
Information:					
5	Information Disclosure Statement (IDS) Form (SB08)	2023-010-23-IDS-Jarvis.pdf	611908	no	4
			c780cf93e70e5cef025f0ef1577721b247b27bf9		
Warnings:					
Information:					
6	Track One Request	2023-10-23-Track-One.pdf	140192	no	2
			f5d2a3f8a0ebfa4301cdf32ee2f2b055798bbf4dc		
Warnings:					
Information:					

7		2023-10-23-Non-Provisional-MissionSilencer.pdf	213830	yes	27
			b1e67365b71f071c818f18aa41eb7a194439247c		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	22	
	Claims		23	26	
	Abstract		27	27	
Warnings:					
Information:					
8	Drawings-only black and white line drawings	2023-10-23-Drawings-Suppression_System.pdf	1903916	no	17
			481a9d4f8b71277ffc2897a35d979de82844ad3c		
Warnings:					
Information:					
9	Power of Attorney	2023-10-23-POA-Jarvis.pdf	224716	no	4
			aa6dfc651cb44248ec20b6d8764abd3bd27a6af2		
Warnings:					
Information:					
10	Fee Worksheet (SB06)	fee-info.pdf	50318	no	2
			0014402ffdbc5edbfdd5c14f9bfb710e380aa507		
Warnings:					
Information:					
Total Files Size (in bytes):			5951927		

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.

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		FIREARM SUPPRESSION SYSTEM		
First Named Inventor/Applicant Name:		Lonnie Jarvis		
Filer:		Brian Dale Batt		
Attorney Docket Number:		22-160.NP		
Filed as Micro Entity				
Filing Fees for Track I Prioritized Examination - Nonprovisional Application under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
BASIC FILING FEE-UTILITY	3011	1	64	64
UTILITY SEARCH FEE	3111	1	140	140
UTILITY EXAMINATION FEE	3311	1	160	160
REQUEST FOR PRIORITIZED EXAMINATION	3817	1	840	840
Pages:				
Claims:				
Miscellaneous-Filing:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL	1504	1	0	0
PROCESSING FEE, EXCEPT PROV. APPLS.	3830	1	28	28
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1232

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA/82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number			
Filing Date			
First Named Inventor	LONNIE JARVIS		
Title	FIREARM SUPPRESSION SYSTEM		
Art Unit			
Examiner Name			
Attorney Docket Number	22-160.NP		
SIGNATURE of Applicant or Patent Practitioner			
Signature	/Brian D. Batt/	Date (Optional)	
Name	Brian D. Batt	Registration Number	77779
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.			
☐ *Total of _____ forms are submitted.			

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. 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 take 3 minutes 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.

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☒ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above:

181674

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

☒ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

☐ Firm or
Individual Name

Address

City

State

Zip

Country

Telephone

Email

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Jarvis Arms LLC

- ☐ Inventor or Joint Inventor (title not required below)
- ☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)
- ☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)
- ☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature /Lonnie Jarvis/

Date (Optional)

Name Lonnie Jarvis

Title Manager

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ Total of forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. 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 take 3 minutes 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.

POWER OF ATTORNEY BY APPLICANT

No more than ten (10) patent practitioners total may be appointed as set forth below by name and registration number. This page need not be submitted if appointing the Patent Practitioner(s) associated with a Customer Number (see form PTO/AIA/82B):

Name	Registration Number

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.



United States Patent and Trademark Office

Under Secretary of Commerce for Intellectual Property and
Director of the United States Patent and Trademark Office

WELCOME TO THE UNITED STATES PATENT AND TRADEMARK OFFICE (USPTO)

*Congratulations on taking the first step to protect your invention. You can now advertise or mark any products covered by this application for your invention as **"Patent Pending"** for as long as this application is pending!*

We are here to help you on the rest of your journey.

New to the process? The Patent Basics page will take you from "What is a patent?" to assistance with the application process.

- www.uspto.gov/PatentBasics

Consider cost savings. You might qualify for small entity or micro entity status, which means a discount on most USPTO patent fees.

- www.uspto.gov/EntityStatus

Become a registered electronic filer (eFiler). You'll gain access to the full capabilities of Patent Center. As a registered eFiler, you can electronically view your submission, track the progress of your application, and respond to USPTO correspondence.

- www.uspto.gov/NewPatentFilers

Learn how to identify which of your creative ideas might be intellectual property assets and how to protect them by using the USPTO Intellectual Property (IP) Identifier.

- ipidentifier.uspto.gov

We also provide Pro Se Assistance, support specifically geared for **independent inventors without an attorney or agent**. Follow the link below, call us at 866-767-3848, or email proseassistancecenter@uspto.gov.

- www.uspto.gov/ProSePatents

Need help near you? We have regional offices across the country, as well as Patent and Trademark Resource Centers in libraries in nearly every state, with specialists standing by to help you at no cost.

- www.uspto.gov/locations
- www.uspto.gov/ptrc

Contact us:

- **General information:** USPTO Contact Center
 - www.uspto.gov/help
- **Patent Center:**
Patent Electronic Business Center
 - www.uspto.gov/EBC
- **Pre or post-examination:** Application Assistance Unit
 - www.uspto.gov/PatentAssistance

Want to learn more?

- **Access our free services** all in one spot. Find all of our contact centers, nationwide services, events, education, and training.
 - www.uspto.gov/FreeServices
- **Connect with us** on Instagram, LinkedIn, Twitter, Facebook, and YouTube.
- **Hear about resources for startups, inventors, and entrepreneurs**, as well as our initiatives engaging women, the military community, and others. These programs offer helpful tips and tricks on identifying and managing your IP, finding options for funding, and expanding your network to support your business.
 - www.uspto.gov/startups
 - www.uspto.gov/inventors
 - www.uspto.gov/initiatives
- We hope you connect with us by subscribing to receive important notifications by email.
 - www.uspto.gov/subscribe

Kathi Vidal

Under Secretary of Commerce for Intellectual Property and
Director of the United States Patent and Trademark Office

Derrick Brent

Deputy Under Secretary of Commerce for Intellectual Property and
Deputy Director of the United States Patent and Trademark Office

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 18/382,845				
APPLICATION AS FILED - PART I										
(Column 1)		(Column 2)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY				
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)			
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	64			
SEARCH FEE (37 CFR 1.16(k), (j), or (m))	N/A	N/A	N/A			N/A	140			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	160			
TOTAL CLAIMS (37 CFR 1.16(j))	20	minus 20 = *	0			x	= 0			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 = *				x	= 0			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0			
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL		TOTAL	364			
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY		
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(j))	*	Minus	**	=	x	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
					TOTAL ADD'L FEE			TOTAL ADD'L FEE		
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(j))	*	Minus	**	=	x	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
					TOTAL ADD'L FEE			TOTAL ADD'L FEE		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										



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
18/382,845	10/23/2023		364	22-160.NP	20	3

181674
Beard St Clair Gaffney PA
520 First American Circle
Rexburg, ID 83440

CONFIRMATION NO. 2084
FILING RECEIPT



0000000064082420

Date Mailed: 11/13/2023

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. 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, 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)

Lonnie Jarvis, Rexburg, ID;

Applicant(s)

Jarvis Arms LLC, Rexburg, ID;

Power of Attorney: The patent practitioners associated with Customer Number 181674

Domestic Priority data as claimed by applicant

This appln claims benefit of 63/419,776 10/27/2022

Foreign Applications for which priority is claimed (You may be eligible to benefit from the Patent Prosecution Highway program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

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: 11/02/2023

page 1 of 3

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/382,845**

Projected Publication Date: 05/02/2024

Non-Publication Request: No

Early Publication Request: No

**** MICRO ENTITY ****

Title

FIREARM SUPPRESSION SYSTEM

Preliminary Class

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.



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 NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/382,845	10/23/2023	Lonnie Jarvis	22-160.NP	2084
181674	7590	11/27/2023		
Beard St Clair Gaffney PA 520 First American Circle Rexburg, ID 83440			EXAMINER PHILLIPS, FORREST M	
			ART UNIT 2837	PAPER NUMBER
			MAIL DATE 11/27/2023	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<i>Decision Granting Request for Prioritized Examination (Track I)</i>	Application No. 18/382,845	Applicant(s) Jarvis, Lonnie	
	Examiner FIKIRTE A GEREMEW	Art Unit OMBL	AIA (FITF) Status Yes
1. THE REQUEST FILED <u>23 October 2023</u> IS GRANTED . The above-identified application has met the requirements for prioritized examination A. ☒ for an original nonprovisional application (Track I). B. ☐ for an application undergoing continued examination (RCE). 2. The above-identified application will undergo prioritized examination. The application will be accorded special status throughout its entire course of prosecution until one of the following occurs: A. filing a <u>petition for extension of time</u> to extend the time period for filing a reply; B. filing an <u>amendment to amend the application to contain more than four independent claims, more than thirty total claims</u>, or a multiple dependent claim; C. filing a <u>request for continued examination</u> ; D. filing a notice of appeal; E. filing a request for suspension of action; F. mailing of a notice of allowance; G. mailing of a final Office action; H. completion of examination as defined in 37 CFR 41.102; or I. abandonment of the application. Telephone inquiries with regard to this decision should be directed to FIKIRTE GEREMEW at (703) 756-1930. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.			
/FIKIRTE A GEREMEW/ PROGRAM SUPPORT ASSISTANT, OMBL			

U.S. Patent and Trademark Office
PTO-2298 (Rev. 02-2012)

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	1	("20200025494").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2023/11/27 12:36 PM
L2	1	((("JARVIS") near3 ("Lonnie"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/11/27 12:37 PM
L3	0	((("JARVIS") near3 ("ARMS") near3 ("LLC"))).AS,AANM.	(USPAT)	OR	ON	ON	2023/11/27 12:37 PM
L4	41	(Artificial Intelligence) Similar to: 18/382,845 with 0 CPC Selections and 0 Text Selections Text: (US-8196701-B1 OR US-20220163281-A1 OR US-10520271-B2 OR FR-2989773-A1 OR US-10852091-B1 OR US-11774205-B1 OR DE-129989-C OR WO-2004008057-A2 OR CA-1227078-A OR DE-222489-C OR US-20190257607-A1 OR US-4576084-A OR EP-3754288-A1 OR US-9470466-B2 OR US-10605558-B1 OR EP-3812686-A1 OR WO-2014152947-A2 OR KR-101506450-B1 OR DE-202019106316-U1 OR US-20140262605-A1 OR US-10345070-B1 OR ES-2767929-T3 OR DE-1703345-A1 OR EP-3754288-B1 OR WO-2018069884-A1 OR EP-3561435-A1 OR US-10267586-B1 OR FR-3047347-A1 OR EP-3561435-B1 OR FI-91918-B OR US-10508877-B2 OR WO-2007069086-A2 OR US-20190078852-A1 OR US-20080098880-A1 OR US-20170241732-A1 OR US-9777979-B2 OR US-9482483-B2 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO))	OR	ON	ON	2023/11/27 12:37 PM

11/27/2023 10:20:16 PM
Workspace: 18382845

Page 1 of 3
FP

L5	878	US-4649798-A OR DE-223354-C OR BE-435938-A OR KR-101483020-B1 OR US-10288374-B1 OR DE-213448-C OR DE-314192-C OR US-20190154385-A1 OR DE-102017010715-A1 OR EP-2587209-A2 OR US-8272306-B1 OR US-9395136-B1 OR US-20150285575-A1).did. 181/223	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; IBM_TDB)	OR	ON	ON	2023/11/27 12:38 PM
L6	3259	F41A21/30	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; IBM_TDB)	OR	ON	ON	2023/11/27 12:38 PM
L7	19	F41A21/30 AND printer	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; IBM_TDB)	OR	ON	ON	2023/11/27 03:16 PM
L8	34	(Artificial Intelligence) More like doc: US-20200025494-A1 Text: (US-20170160034-A1 OR US-20150260473-A1 OR US-9482484-B2 OR US-20210396485-A1 OR US-11561059-B2 OR US-20220018623-A1 OR AU-2011313815-B2 OR US-10228210-B2 OR AU-2011313815-A1 OR US-20180252489-A1 OR US-20200025496-A1 OR US-11585623-B2 OR US-20160076844-A1 OR US-11300379-B2 OR WO-2020081268-A2	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/27 04:34 PM

L9	1126	OR US-20210381791-A1 OR AU-2017356323-A1 OR US-11493298-B2 OR US-RE47932-E OR US-8307946-B1).did. 89/14.4	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; IBM_TDB)	OR	ON	ON	2023/11/27 09:27 PM
----	------	--	---	----	----	----	------------------------

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	
	Filing Date	
	First Named Inventor	Lonnie Jarvis
	Art Unit	
	Examiner Name	
	Attorney Docket Number	22-160.NP

U.S.PATENTS							Remove	
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
	1							
If you wish to add additional U.S. Patent citation information please click the Add button.							Add	
U.S.PATENT APPLICATION PUBLICATIONS							Remove	
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
/F.M.P/	1	20200025494	A1	2020-01-23	Joshua J. Parker			
If you wish to add additional U.S. Published Application citation information please click the Add button.							Add	
FOREIGN PATENT DOCUMENTS							Remove	
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²ⁱ	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							
If you wish to add additional Foreign Patent Document citation information please click the Add button								Add
NON-PATENT LITERATURE DOCUMENTS								Remove
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.						T ⁵

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		
	Filing Date		
	First Named Inventor	Lonnie Jarvis	
	Art Unit		
	Examiner Name		
	Attorney Docket Number	22-160.NP	

1			
If you wish to add additional non-patent literature document citation information please click the Add button Add			
EXAMINER SIGNATURE			
Examiner Signature	/FORREST M PHILLIPS/		Date Considered 11/27/2023
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			
¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.			

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		
	Filing Date		
	First Named Inventor	Lonnie Jarvis	
	Art Unit		
	Examiner Name		
	Attorney Docket Number	22-160.NP	

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Brian D. Batt/	Date (YYYY-MM-DD)	2023-10-23
Name/Print	Brian D. Batt	Registration Number	77779

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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.**

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.

Bibliographic Data

Application No: 18/382,845

Foreign Priority claimed: ☐ Yes ☒ No

35 USC 119 (a-d) conditions met: ☐ Yes ☒ No ☐ Met After Allowance

Verified and Acknowledged: /FORREST M PHILLIPS/

Examiner's Signature

Initials

Title:

FIREARM SUPPRESSION SYSTEM

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
10/23/2023	181	2837	
RULE			

APPLICANTS

Jarvis Arms LLC,

INVENTORS

Lonnie Jarvis, Rexburg, ID, UNITED STATES

CONTINUING DATA

This application has PRO of 63419776 10/27/2022

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

11/02/2023

** MICRO ENTITY **

STATE OR COUNTRY

UNITED STATES

ADDRESS

FILING FEE RECEIVED

\$0

<i>Index of Claims</i> 	Application/Control No. 18/382,845	Applicant(s)/Patent Under Reexamination Jarvis, Lonnie
	Examiner FORREST M PHILLIPS	Art Unit 2837

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM			DATE							
Final	Original	11/27/2023								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
	11	✓								
	12	✓								
	13	✓								
	14	✓								
	15	✓								
	16	O								
	17	O								
	18	O								
	19	O								
	20	✓								

<i>Search Notes</i> 	Application/Control No. 18/382,845	Applicant(s)/Patent Under Reexamination Jarvis, Lonnie
	Examiner FORREST M PHILLIPS	Art Unit 2837

CPC - Searched*		
Symbol	Date	Examiner
F41A21/30	11/27/2023	FP

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
181	223	11/27/2023	FP
89	14.4	11/27/2023	FP

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
SEARCH similarity searchj conduted	11/27/2023	FP

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

--	--

<i>Notice of References Cited</i>	Application/Control No. 18/382,845	Applicant(s)/Patent Under Reexamination Jarvis, Lonnie	
	Examiner FORREST M PHILLIPS	Art Unit 2837	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-11774205-B1	10-2023	Kunsky; Jacob	F41A21/30	89/14.4
*	B	US-10605558-B1	03-2020	Marfione; Anthony Louis	F41A21/30	1/1
*	C	US-20150285575-A1	10-2015	Sclafani; Michael L.	F41A21/30	29/402.08
*	D	US-11333458-B1	05-2022	Hunt; Courtland K.	F41A21/30	1/1
*	E	US-9739560-B1	08-2017	Salvador; Joe	F41A21/34	1/1
*	F	US-9347727-B1	05-2016	Cler; Daniel L.	F41A21/30	1/1
*	G	US-6425310-B1	07-2002	Champion; Edwin J.	F41A21/30	89/14.3
*	H	US-20210041200-A1	02-2021	Kras; Krzysztof J.	F41A21/30	1/1
*	I	US-11761725-B1	09-2023	Sanders; David	F41A21/325	89/14.3
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office
PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20231127



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 NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/382,845	10/23/2023	Lonnie Jarvis	22-160.NP	2084
181674	7590	11/29/2023	EXAMINER	
Beard St Clair Gaffney PA 520 First American Circle Rexburg, ID 83440			PHILLIPS, FORREST M	
			ART UNIT	PAPER NUMBER
			2837	
			MAIL DATE	DELIVERY MODE
			11/29/2023	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale, or otherwise available to the public before the effective filing date of the claimed invention.

1. Claims 1,4-7,9, and 20 are rejected under 35 U.S.C. 102a1 as being anticipated by Marfione (US10605558).

With respect to claim 1 Marfione discloses a firearm suppression system (10) comprising:

A housing (12) comprising a first end and a second end the housing comprising:

A first aperture (at 14) at the first end,

A second aperture (at 16) at the second end;

An inner compartment interposed between the first aperture and the second aperture, the inner compartment being substantially the same circumference from first end to the second end;

An end cap (16) with a projectile aperture; and

A core (28) removably attached to the housing and positioned therein

With respect to claim 4 Marfione further discloses a muzzle adapter (as shown in figure 3).

With respect to claim 5 Marfione further discloses wherein the end cap comprises a second side that comprises a ledge that rests upon and is flush with the second end (as can be seen in figure 2, the end cap flares out to rest upon the end wall of the housing).

With respect to claim 6 Marfione further discloses (see again figure 2 and figure 6) wherein the end cap comprises a sidewall that is positioned in the inner compartment and rests against an inner surface of the housing.

With respect to claim 7 Marfione (see figure 6) further discloses wherein the sidewall comprises threads that couple to the housing.

With respect to claim 9 Marfione further discloses a disc (see figure 6, dis is unnumbered but present against the o ring shown in the left of figure 6) interposed between the end cap and the core.

Claim 20 Marfione further discloses a firearm suppression system comprising:

A housing comprising a first end and a second end, the housing comprising:

A first aperture at the first end (at 14),

A second aperture at the second end (at 16);

An inner compartment interposed between the first aperture and the second aperture, the inner compartment being substantially the same circumference from the first end to the second end;

A t muzzle adapter (14) threadably coupled to the first end and removably attachable to a barrel of a gun;

An end cap (16) with a projectile aperture;

A core (28) removably attached to the housing and positioned therein, the core comprising:

A plurality of core apertures (that is to say the aperture through the baffle stack), one or more baffles (28 is described as a baffle stack) that interact with the plurality of core apertures, and one or more pressure reduction channels; and a disc (shown in figure 6 proximate the or ring seal at the left side of the figure which is the upstream side of the end cap).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 2,8, 10, and 12-13 are rejected under 35 U.S.C. 103 as being unpatentable over Marfione (US10605558) in view of Sclafani (US20150285575).

With respect to claim 2 Marfione discloses the invention as claimed except expressly wherein the core is printed form a three dimensional printer.

Sclafani (para 16) discloses the use of a 3d printer to form a core of a silencer.

It would have been obvious to use a 3d printer as taught by Sclafani to form the core of Marfione so as to form the core in a rapid manner with no wasted material.

With respect to claim 8 Marfione as modified further discloses a channel between an inner surface of the housing and an outer surface of the core to equalize pressure that begins at the first end of the housing and terminates at the second end of the housing from a fired projectile (Marfione discloses a plurality of apertures in the baffled to vent into the spaces and Sclafani discloses apertures 34 which vent from one chamber to the next. When taken in combination one of ordinary skill would have found it obvious to have the venting aperture which leads from chamber to chamber to be in a line as are the apertures of Marfione and thus form the channel as this would allow the maximal space for expansion of the gases).

With respect to claim 10 Marfione as modified further discloses wherein the core comprises a plurality of core apertures (see 34 of Sclafani) on an outer surface that allows gas passing from the projectile and cartridge to pass to a channel between the inner surface of the housing and an outyer surface of the core (see figure 3 of Marfione, disclosed as part of the first end cap member but is a part of the silencing means, as such would have been obvious to apply to the core per se).

With respect to claim 12 Marifone as modified further discloses wherein the core comprises an inner surface that includes baffles that interact with the plurality of core apertures (see Scalfani).

With respect to claim 13 Marifone as modified further discloses wherein the baffles are extruded inward (as best understood from the device being 3d printed this is the case, if it is considered to be the reverse then it would have been obvious to extrude them inward as nothing more than a reversal of the outward extrusion given the cone shape).

3. Claims 3, and 14-15 are rejected under 35 U.S.C. 103 as being unpatentable over Marfione (US10605558) in view of Cler (US9347727).

With respect to claim 3 Marifone discloses the nvneiton as claimed except for the plurality of vent apertures in the end cap.

Cler discloses an end cap for a suppression system of a firearm having a plurality of vent apertures on the end cap (108).

It would have been obvious to one of ordinary skill in the art to combine the teachings of Cler to use apertures on the end cap to prevent excess pressure forming within the silencer body.

With respect to claim 14 Marifone as modified further discloses wherein the core includes an end cap baffle proximate the end cap in the housing , the end cap baffle comprising baffle apertures (117) that function in tandem with a plurality of vent apertures on the end cap (see how they are inline with the end cap apertures and in fluid communication thereiwith).

With respect to claim 15 Marfione as modified further discloses a firearm suppression system comprising:

A housing comprising a first end and a second end, the housing comprising:

A first aperture (proximate 14) at the first end,

A second aperture (proximate 16) at the second end;

An inner compartment interposed between the first aperture and the second aperture, the inner compartment being substantially the same circumference from the first end to the second end;

An end cap (see Cler) actuated by pressure (that is to say the silencing function of the end cap is actuated by pressure) the end cap comprising:

A projectile aperture (107 of Cler);

A pressure channel running parallel to the projectile aperture (see passages associated with apertures 117);

A closure channel (see U shaped portion of end cap associated with vent 108), the closure channel passing from an outer surface of the end cap to the projectile aperture (they are in fluid communication via the final baffle apertures);

A core removable attached to the housing and positioned therein (see Marifone) the core comprising:

A plurality of core apertures (see baffles of Cler) and one or more baffles that interact with the plurality of core apertures (see again Cler).

4. Claim(s) 11 is rejected under 35 U.S.C. 103 as being unpatentable over Marfione (US10605558) in view of Sclafani (US20150285575) as applied to claim 10 above, and further in view of Kras (US20210041200).

With respect to claim 11 Marifone discloses the invention as claimed except expressly wherein the plurality of core apertures is substantially hexagonal shape.

Kras discloses (109) core apertures for a firearm suppressor that is hexagonally shaped.

It would have been an obvious matter to select any shape including that of a hexagonal shape so as to have any desired flow characteristics associated with the selected shape and size of aperture.

Allowable Subject Matter

Claims 16-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the prior art fails to disclose or to fairly suggest the claimed invention of the endcap having a closure member that is positionable in the closure channel in the manner claimed; the prior art fails to disclose the presence of a key in the closure channel.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kunsy (US11774205) discloses a baffle structure for firearm; Sanders (US11761725) discloses a firearm suppressor; Hunt (US11333458) discloses an underwater firearm suppressor; Salvador (US9739560) discloses a suppressor system; and Champion(US6425310) discloses a muzzle brake.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FORREST M PHILLIPS whose telephone number is (571)272-9020. The examiner can normally be reached Monday-Friday from 9:00-5:00.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shawki Ismail can be reached on (571) 272-3985. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: <https://patentcenter.uspto.gov>. Visit <https://www.uspto.gov/patents/apply/patent-center> for more information about Patent Center and <https://www.uspto.gov/patents/docx> for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/FORREST M PHILLIPS/
Examiner, Art Unit 2837

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 18/382,845		Filing Date 10/23/2023		☐ To be Mailed		
ENTITY: ☐ LARGE ☐ SMALL ☒ MICRO										
APPLICATION AS FILED - PART I										
		(Column 1)		(Column 2)						
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)		
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A				
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A		N/A		N/A				
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A				
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 = *				x \$20 =				
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 = *				x \$96 =				
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).								
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL				
APPLICATION AS AMENDED - PART II										
		(Column 1)		(Column 2)		(Column 3)				
AMENDMENT	02/16/2024	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		
	Total (37 CFR 1.16(i))		* 17		Minus ** 20		= 0		x \$20 =	
	Independent (37 CFR 1.16(h))		* 3		Minus *** 3		= 0		x \$96 =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
								TOTAL ADD'L FEE		0
AMENDMENT	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))		* Minus **		=		x \$0 =			
	Independent (37 CFR 1.16(h))		* Minus ***		=		x \$0 =			
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
								TOTAL ADD'L FEE		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.								PSS		
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".								/TERRANCE R LAWRENCE/		
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".										
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.										

This collection of information is required by 37 CFR 1.16. 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 12 minutes 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.

REMARKS

Claims 1-20 are pending in the application. Claims 8, 10, and 16 have been canceled. Applicant has amended claims 1, 11-12, 15, and 20. No new matter has been added by these amendments.

Applicant respectfully requests reconsideration and withdrawal of the rejections in view of the amendments set forth herein. For the following reasons, Applicant submits that the Claims, as amended, are in condition for allowance.

Rejection under 35 U.S.C. § 102

Claims 1, 4-7, 9, and 20 were rejected under 35 U.S.C. § 102(a)(1) as being anticipated by Marfione (US 10,605,558). “A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference.” *Verdegaal Bros. v. Union Oil Co. of California*, 814 F.2d 628, 631, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987). The Applicant respectfully submits that the amended claims are not anticipated by Marfione (“Cited Reference”).

The Applicant respectfully submits that the claims as amended are not anticipated because the Cited Reference fails to teach or even suggest each of the limitations recited by the pending claims. Accordingly, reconsideration and withdrawal of this ground of rejection is respectfully requested.

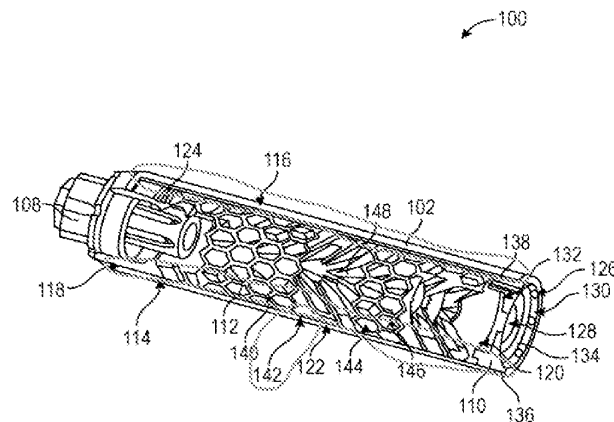
In particular, claim 1 has been amended to include the limitations found in dependent claims 8 and 10. Accordingly, the following limitation has been added:

wherein the core comprises a plurality of core apertures on an outer surface that allow gas passing from a projectile and cartridge to pass to a channel between the inner surface of the housing and an outer surface of the core, the channel circumscribes the outer surface

of the core and equalizes pressure that begins at the first end of the housing and

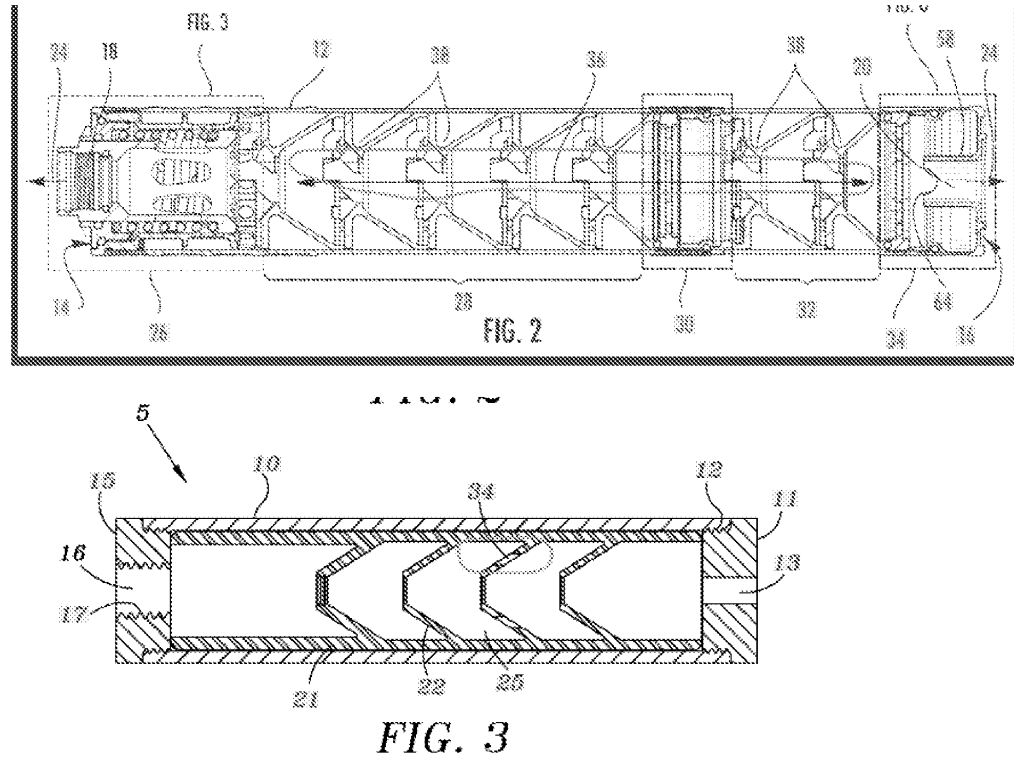
terminates at the second end of the housing.

Support for this amendment can be found in ¶ [0046] and Fig. 2. Specifically, ¶ [0046] states “Between an outer surface 140 of the core 112 and the inner surface 114 of the housing 102, there may be a channel 142 that equalizes pressure. The channel 142 may surround the core 360 degrees starting at the first end 104 of the housing 102 and ending at the second end 106 of the housing 102.” The following screenshot of Fig. 2 illustrates the channel 142 that is positioned between the housing and the core and that circumscribes the cores, running the entire length of the core.



Accordingly, the channel as shown in the above illustration is not found the Cited Reference, nor is it found in the references cited below under §103. The Examiner pointed to the Cited Reference and the Sclafani reference, discussed below, and stated that the Cited Reference includes a plurality of apertures in the baffles to vent into the spaces and Sclafani discloses apertures 34 which vent from one chamber to the next. The following are illustrations from the

Cited Reference and Scalfani that allegedly illustrate the channel as discussed in Applicant's patent application:

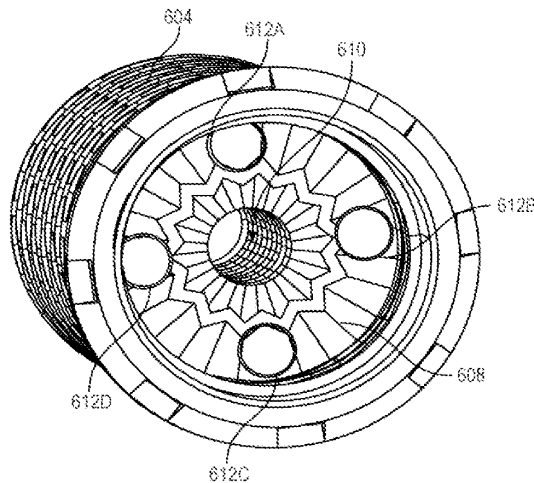
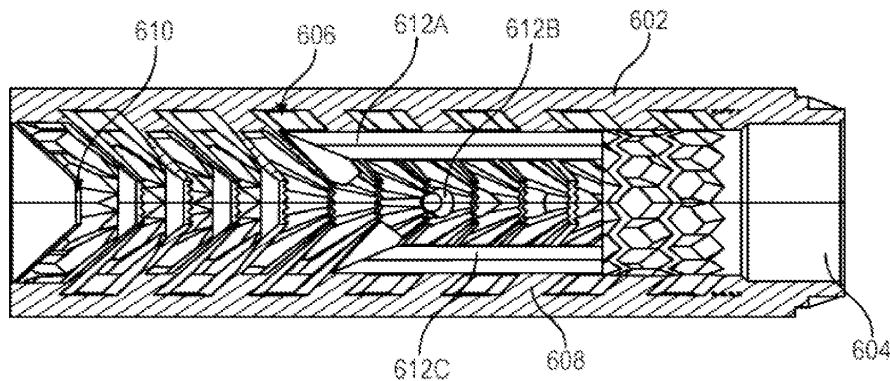


The Cited Reference and Scalfani fail to teach or even suggest a channel that is positioned between the removable core and an inner surface of the housing. The illustrations shown above and found in the Cited Reference and Scalfani are limited in that they do not illustrate a channel, rather they illustrate projectile apertures passing through the baffles and additional apertures passing from one baffle chamber to another. The configuration of the suppression system as discussed in amended claim 1 is not illustrated or found in any of the prior art references.

Further, Claim 20 has been amended to include the following limitation:

one or more pressure reduction tubes that each pass through a predetermined number of baffles, the one or more pressure reduction tubes comprise an angled end portion that angles toward the first end of the housing.

The one or more tubes are discussed in ¶ [0057] and shown in the below illustrations (Figs. 16-17) as 612A-612D. These tubes are not found in the Cited References or any other prior art reference cited by the Examiner.



Accordingly, Applicant respectfully submits that claims 1 and 20 and any claims depending therefrom are in condition for allowance.

Rejection under 35 U.S.C. § 103

Claims 2, 8, 10 and 12-13 were rejected under 35 U.S.C. § 103 as being unpatentable over Marfione (US 10,605,558) in view of Sclafani (US 20150285575). Claims 3 and 14-15 were rejected under 35 U.S.C. § 103 as being unpatentable over Marfione (US 10,605,558) in view of Cler (US 9347727). Claim 11 was rejected under 35 U.S.C. § 103 as being unpatentable over Marfione (US 10,605,558) in view of Sclafani (US 20150285575) as applied to claim 10, and further in view of Kras (US 20210041200). It is a longstanding rule that to establish a *prima facie* case of obviousness of a claimed invention, all of the claim limitations must be taught or suggested by the prior art. *In re Royka*, 180 USPQ 143 (CCPA 1974); MPEP 2143.03. Further, if an independent claim is nonobvious under 35 U.S.C. §103, then any claim depending therefrom is nonobvious. *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988).

Applicant has amended claim 15 to include allowed claim 16. Therefore, reconsideration and withdrawal of this ground of rejection is respectfully requested.

Allowable Subject Matter

Claims 16-19 were objected to as being dependent upon a rejected base claim, but would be allowable if written in independent form. Accordingly, Applicant has amended claim 15 to include claim 16 and should be in condition for allowance.

Conclusion

The cited art fails to disclose, teach, or suggest the limitations of the amended claims.

Application No.: 18/382,845

Amdt. dated 02/15/2024

BSG Docket No.: 22-160.NP

Accordingly, allowance of claims 1-7, 9, 11-15, and 17-20 is respectfully solicited.

Please charge any government fee required for entry of this response or credit any overpayment

to Deposit Account 604452.

Beard St. Clair Gaffney PA
955 Pier View Dr,
Idaho Falls, ID 83402
208-557-5216

Respectfully Submitted,
/Brian D. Batt/
Brian D. Batt
Registration No. 77,779

AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A firearm suppression system comprising:
 - a housing comprising a first end and a second end, the housing comprising:
 - a first aperture at the first end,
 - a second aperture at the second end;
 - an inner compartment interposed between the first aperture and the second aperture, the inner compartment being substantially the same circumference from the first end to the second end;
 - an end cap with a projectile aperture; and
 - a core removably attachable to the housing and positioned therein, wherein the core comprises a plurality of core apertures on an outer surface that allow gas passing from a projectile and cartridge to pass to a channel between the inner surface of the housing and an outer surface of the core, the channel circumscribes the outer surface of the core and equalizes pressure that begins at the first end of the housing and terminates at the second end of the housing.
2. (Original) The firearm suppression system of claim 1, wherein the core is printed from a three-dimensional printer.
3. (Original) The firearm suppression system of claim 1, wherein the end cap comprises a plurality of vent apertures.
4. (Original) The firearm suppression system of claim 1, further comprising a muzzle adapter.

5. (Original) The firearm suppression system of claim 1, wherein the end cap comprises a second side that comprises a ledge that rests upon and is flush with the second end.
6. (Original) The firearm suppression system of claim 1, wherein the end cap comprises a sidewall that is positioned in the inner compartment and rests against an inner surface of the housing.
7. (Original) The firearm suppression system of claim 6, wherein the sidewall comprises threads that couple to the housing.
8. (Canceled)
9. (Original) The firearm suppression system of claim 1, further comprising a disc interposed between the end cap and the core.
10. (Canceled)
11. (Currently Amended) The firearm suppression system of claim [[10]] 1, wherein the plurality of core apertures is substantially hexagonal shaped.
12. (Currently Amended) The firearm suppression system of claim [[10]] 1, wherein the core comprises an inner surface that includes baffles that interact with the plurality of core apertures.
13. (Original) The firearm suppression system of claim 12, wherein the baffles are extruded inward.
14. (Original) The firearm suppression system of claim 1, wherein the core includes an end cap baffle proximate the end cap in the housing, the end cap baffle comprising baffle apertures that function in tandem with a plurality of vent apertures on the end cap.
15. (Currently Amended) A firearm suppression system comprising:

a housing comprising a first end and a second end, the housing comprising:

a first aperture at the first end,
a second aperture at the second end;
an inner compartment interposed between the first aperture and the second aperture, the inner compartment being substantially the same circumference from the first end to the second end;
an end cap actuated by pressure, the end cap comprising:
a projectile aperture;
a pressure channel running parallel to the projectile aperture;
a closure channel that is perpendicular to the pressure channel, the closure channel passing from an outer surface of the end cap to the projectile aperture;
a core removably attachable to the housing and positioned therein, the core comprising:
a plurality of core apertures, and
one or more baffles that interact with the plurality of core apertures;
wherein the end cap comprises a closure member that is positionable in the closure channel proximate the outer surface.

16. (Canceled)

17. (Original) The firearm suppression system of claim 15, further comprising a key placed in the closure channel.

18. (Original) The firearm suppression system of claim 17, wherein the key comprises a head and a shaft, the shaft extendible into the projectile aperture.

19. (Original) The firearm suppression system of claim 17, wherein the key comprises a spring positioned below the head, around the shaft, and resting on a projectile ledge in the closure channel.

20. (Currently Amended) A firearm suppression system comprising:

a housing comprising a first end and a second end, the housing comprising:

a first aperture at the first end,

a second aperture at the second end;

an inner compartment interposed between the first aperture and the second aperture, the inner compartment being substantially the same

circumference from the first end to the second end;

a muzzle adapter threadably coupled to the first end and removably attachable to a barrel of a gun;

an end cap with a projectile aperture;

a core removably attachable to the housing and positioned therein, the core comprising:

a plurality of core apertures,

one or more baffles that interact with the plurality of core apertures, and

one or more pressure reduction ~~channels~~ tubes that each pass through a predetermined number of baffles, the one or more pressure reduction tubes comprise an angled end portion that angles toward the first end of the housing; and

a disc interposed between the end cap and the core.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Lonnie Jarvis

Confirmation No.: 2084

Serial No.: 18/382,845

Group Art Unit: 2837

Filed: 10/23/2023

Examiner: Phillips, Forrest M.

For: Firearm Suppression System

RESPONSE

via EFS

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

In response to the Non-Final Office Action (“NFOA”) dated November 29, 2023,

Applicant submits the following amendments and remarks:

Amendments to the Claims begin on page 2; and

Remarks begin on page 6.



UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
18/382,845

RECEIPT DATE / TIME
02/16/2024 10:46:45 AM Z ET

ATTORNEY DOCKET #
22-160.NP

Title of Invention

FIREARM SUPPRESSION SYSTEM

Application Information

APPLICATION TYPE Utility - Nonprovisional Application
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 2084

FILED BY Brian Batt

PATENT CENTER # 64346308

FILING DATE 10/23/2023

CUSTOMER # 181674

FIRST NAMED
INVENTOR Lonnie Jarvis

CORRESPONDENCE
ADDRESS -

AUTHORIZED BY -

Documents

TOTAL DOCUMENTS: 3

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
2024-02-16-OAR-Jarvis.pdf		11	-	664 KB
2024-02-16-OAR-Jarvis-A....pdf	(1-1)	1	Amendment/Request for Reconsideration-After Non- Final Rejection	72 KB
2024-02-16-OAR-Jarvis-CLM.pdf	(2-5)	4	Claims	83 KB
2024-02-16-OAR-Jarvis-REM.pdf	(6-11)	6	Applicant Arguments/Remarks Made in an Amendment	648 KB

Digest

DOCUMENT MESSAGE DIGEST(SHA-512)

2024-02-16-OAR-Jarvis.pdf	0DECCD805AF8112CD19D3972736DEDEE622C1FAED7E8BBB 6C4B393A4038B29E8B237833E4912A026FA9B53A4F7E61A19 E963102E2D9C56669573B357334E0AF1
2024-02-16-OAR-Jarvis-A....pdf	17EA4A3B8EF7CBF8D1D0148389105737F4F547B7A00180B9F 1D4D65620C4E15C1B75B1D611146D3FAFCDF86B88073068A7 69A227DD566B0FC7DDB770F884EFBB
2024-02-16-OAR-Jarvis-CLM.pdf	DE67B96F5F241E0E01376F24A0C749DA1677BC95FC76F49E3 54DB3AFC4D7D45418BA2BB9BF80ADAAC9E74A06EA7FCC2C 652B2F9B8BC53003A308930C21A49C14
2024-02-16-OAR-Jarvis-REM.pdf	294070E28C0DC40FE4052EF54693E5BA381748AA73D88CCA2 75F314D66FDD1044D6BDF8CAAFEE29E94BCEFF811C66BD6 9E2CE9A5EEE0FAA8D7560C55322BC429

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.

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	1	("20200025494").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2023/11/27 12:36 PM
L2	1	((("JARVIS") near3 ("Lonnie"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/11/27 12:37 PM
L3	0	((("JARVIS") near3 ("ARMS") near3 ("LLC"))).AS,AANM.	(USPAT)	OR	ON	ON	2023/11/27 12:37 PM
L4	41	(Artificial Intelligence) Similar to: 18/382,845 with 0 CPC Selections and 0 Text Selections Text: (US-8196701-B1 OR US-20220163281-A1 OR US-10520271-B2 OR FR-2989773-A1 OR US-10852091-B1 OR US-11774205-B1 OR DE-129989-C OR WO-2004008057-A2 OR CA-1227078-A OR DE-222489-C OR US-20190257607-A1 OR US-4576084-A OR EP-3754288-A1 OR US-9470466-B2 OR US-10605558-B1 OR EP-3812686-A1 OR WO-2014152947-A2 OR KR-101506450-B1 OR DE-202019106316-U1 OR US-20140262605-A1 OR US-10345070-B1 OR ES-2767929-T3 OR DE-1703345-A1 OR EP-3754288-B1 OR WO-2018069884-A1 OR EP-3561435-A1 OR US-10267586-B1 OR FR-3047347-A1 OR EP-3561435-B1 OR FI-91918-B OR US-10508877-B2 OR WO-2007069086-A2 OR US-20190078852-A1 OR US-20080098880-A1 OR US-20170241732-A1 OR US-9777979-B2 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO))	OR	ON	ON	2023/11/27 12:37 PM

L5	878	US-9482483-B2 OR US-4649798-A OR DE- 223354-C OR BE- 435938-A OR KR- 101483020-B1 OR US- 10288374-B1 OR DE- 213448-C OR DE- 314192-C OR US- 20190154385-A1 OR DE-102017010715-A1 OR EP-2587209-A2 OR US-8272306-B1 OR US-9395136-B1 OR US-20150285575- A1).did. 181/223	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; IBM_TDB)	OR	ON	ON	2023/11/27 12:38 PM
L6	3259	F41A21/30	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; IBM_TDB)	OR	ON	ON	2023/11/27 12:38 PM
L7	19	F41A21/30 AND printer	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; IBM_TDB)	OR	ON	ON	2023/11/27 03:16 PM
L8	34	(Artificial Intelligence) More like doc: US-20200025494-A1 Text: (US-20170160034-A1 OR US-20150260473- A1 OR US-9482484-B2 OR US-20210396485- A1 OR US-11561059- B2 OR US- 20220018623-A1 OR AU-2011313815-B2 OR US-10228210-B2 OR AU-2011313815-A1 OR US-20180252489-A1 OR US-20200025496- A1 OR US-11585623- B2 OR US- 20160076844-A1 OR US-11300379-B2 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/27 04:34 PM

L9	1126	WO-2020081268-A2 OR US-20210381791-A1 OR AU-2017356323-A1 OR US-11493298-B2 OR US-RE47932-E OR US-8307946-B1).did.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; IBM_TDB)	OR	ON	ON	2023/11/27 09:27 PM
----	------	---	---	----	----	----	---------------------

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N1	820	181/223	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/23 01:27 PM
N2	1177	F41A21/30	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/23 01:27 PM
N3	1015	89/14.4	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/23 01:28 PM
N4	1	firearm WITH supressor AND housing AND end WITH cap AND core WITH removabl\$	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/23 01:29 PM
N5	1	firearm WITH supress\$ AND housing AND end WITH cap AND core WITH removabl\$	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/23 01:30 PM
N6	1	firearm WITH supress\$ AND housing AND core WITH removabl\$	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/23 01:30 PM
N7	1	supressor AND housing AND end WITH cap AND core WITH removabl\$	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/23 01:30 PM
N8	1	supressor AND housing AND core WITH removabl\$	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/23 01:30 PM
N9	131	supressor AND housing AND core	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/23 01:30 PM
N10	1	firearm WITH supressor AND housing AND end WITH cap AND core	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/23 01:30 PM
N11	1	firearm WITH supressor AND housing AND core	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/23 01:31 PM

Issue Classification 	Application/Control No. 18/382,845	Applicant(s)/Patent Under Reexamination Jarvis, Lonnie
	Examiner FORREST M PHILLIPS	Art Unit 2837

CPC		
Symbol	Type	Version
F41A 21 30	F	2013-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	17	
/FORREST M PHILLIPS/ Examiner, Art Unit 2837	23 February 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office

Part of Paper No.: 20240223

Issue Classification 	Application/Control No. 18/382,845	Applicant(s)/Patent Under Reexamination Jarvis, Lonnie
	Examiner FORREST M PHILLIPS	Art Unit 2837

INTERNATIONAL CLASSIFICATION			
CLAIMED			
F41A21/30		21	30

NON-CLAIMED			

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	17	
/FORREST M PHILLIPS/ Examiner, Art Unit 2837	23 February 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office

Part of Paper No.: 20240223

Issue Classification 	Application/Control No. 18/382,845	Applicant(s)/Patent Under Reexamination Jarvis, Lonnie
	Examiner FORREST M PHILLIPS	Art Unit 2837

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47															
CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1		10	16	19										
2	2	9	11	17	20										
3	3	10	12												
4	4	11	13												
5	5	12	14												
6	6	13	15												
7	7		16												
	8	14	17												
8	9	15	18												

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	17	
/FORREST M PHILLIPS/ Examiner, Art Unit 2837	23 February 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office

Part of Paper No.: 20240223

Search Notes 	Application/Control No. 18/382,845	Applicant(s)/Patent Under Reexamination Jarvis, Lonnie
	Examiner FORREST M PHILLIPS	Art Unit 2837

CPC - Searched*		
Symbol	Date	Examiner
F41A21/30	11/27/2023	FP

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
181	223	11/27/2023	FP
89	14.4	11/27/2023	FP

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
SEARCH similarity searchj conducted	11/27/2023	FP
SEARCH updated	02/23/2024	FP
interference SEARCH conducted	02/23/2024	FP

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
F41A21/30		02/23/2024	FP

/FORREST M PHILLIPS/ Examiner, Art Unit 2837	
---	--



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

NOTICE OF ALLOWANCE AND FEE(S) DUE

181674 7590 02/29/2024
Beard St Clair Gaffney PA
520 First American Circle
Rexburg, ID 83440

EXAMINER

PHILLIPS, FORREST M

ART UNIT

PAPER NUMBER

2837

DATE MAILED: 02/29/2024

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/382,845	10/23/2023	Lonnie Jarvis	22-160.NP	2084

TITLE OF INVENTION: FIREARM SUPPRESSION SYSTEM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	MICRO	\$240	\$0.00	\$0.00	\$240	05/29/2024

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

181674 7590 02/29/2024
Beard St Clair Gaffney PA
520 First American Circle
Rexburg, ID 83440

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/382,845	10/23/2023	Lonnie Jarvis	22-160.NP	2084

TITLE OF INVENTION: FIREARM SUPPRESSION SYSTEM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	MICRO	\$240	\$0.00	\$0.00	\$240	05/29/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
PHILLIPS, FORREST M	2837	181-223000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required)

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

- ☐ Electronic Payment via the USPTO patent electronic filing system ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. Change in Entity Status (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____



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 NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/382,845	10/23/2023	Lonnie Jarvis	22-160.NP	2084
181674	7590	02/29/2024	EXAMINER	
Beard St Clair Gaffney PA 520 First American Circle Rexburg, ID 83440			PHILLIPS, FORREST M	
			ART UNIT	PAPER NUMBER
			2837	
DATE MAILED: 02/29/2024				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. 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 30 minutes 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. 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.

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. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013).

<https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf>

Routine uses of the information in this record may include disclosure to:

- 1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
- 2) a federal, state, local, or international agency, in response to its request;
- 3) a contractor of the USPTO having need for the information in order to perform a contract;
- 4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
- 5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
- 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
- 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
- 8) 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));
- 9) the Office of Personnel Management (OPM) for personnel research purposes; and
- 10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Notice of Allowability	Application No. 18/382,845	Applicant(s) Jarvis, Lonnie	
	Examiner FORREST M PHILLIPS	Art Unit 2837	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 2/16/24.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 1-7,9,11-15 and 17-20. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov**.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:
a) ☐ All b) ☐ Some* c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)	5. ☐ Examiner's Amendment/Comment
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.	6. ☒ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. ☐ Other _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.	

/FORREST M PHILLIPS/ Examiner, Art Unit 2837	
---	--

DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Allowable Subject Matter

Claims 1-7, 9, 11-15, and 17-20 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art fails to disclose or to fairly suggest the invention as claimed. Applicant's remarks filed concurrent with the amendment are persuasive in this regard.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FORREST M PHILLIPS whose telephone number is (571)272-9020. The examiner can normally be reached Monday-Friday from 9:00-5:00.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shawki Ismail can be reached on (571) 272-3985. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: <https://patentcenter.uspto.gov>. Visit <https://www.uspto.gov/patents/apply/patent-center> for more information about Patent Center and <https://www.uspto.gov/patents/docx> for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/FORREST M PHILLIPS/
Examiner, Art Unit 2837



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	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/382,845	10/23/2023	Lonnie Jarvis	22-160.NP

CONFIRMATION NO. 2084

181674
Beard St Clair Gaffney PA
520 First American Circle
Rexburg, ID 83440

PUBLICATION NOTICE



OC000000072072276

Date Mailed: 05/02/2024

Title:FIREARM SUPPRESSION SYSTEM

Publication No.US-2024-0142189-A1

Publication Date:05/02/2024

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be viewed using the USPTO's publicly available Searchable Databases via the Patent Public Search tool at www.uspto.gov. The direct link to access the Patent Public Search tool is currently <https://ppubs.uspto.gov/pubwebapp/static/pages/ppubsbasic.html>.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through Patent Center, the USPTO's electronic patent application filing and management system. The direct link to access this status information is currently <https://patentcenter.uspto.gov/>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of Patent Center.

Further assistance in electronically accessing the publication, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

Acknowledgement of Loss of Entitlement to Micro Entity Status

APPLICATION #	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET #	REQUEST ID
18/382,845	10/23/2023	Lonnie Jarvis	22-160.NP	217595

The entity status change request below filed through Patent Center on 05/20/2024 has been accepted.

Certifications

APPLICANT ASSERTING SMALL ENTITY STATUS. See 37CFR 1.27.

Signature

I certify, in accordance with 37 CFR 1.4(d)(4), that I am one of the signatories making the entity status change.

Signature	Name	Registration #
/Brian D. Batt/	Brian Batt	77779



UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ISSUE FEE TRANSMITTAL FORM

APPLICATION #
18382845

FILING DATE
10/23/2023

FIRST NAMED INVENTOR
Lonnie Jarvis

ATTORNEY DOCKET #
22-160.NP

Title of Invention

FIREARM SUPPRESSION SYSTEM

Application Information

APPLICATION TYPE	Nonprovisional Application under 35 USC 111(a)	DATE DUE	05/29/2024
CONFIRMATION #	2084	ISSUE FEE DUE	\$ 480
EXAMINER	FORREST PHILLIPS	PUBLICATION DUE	\$ 0
GROUP ART UNIT	2837	TOTAL FEES DUE	\$480
CLASS - SUBCLASS	181/223000	PREV. PAID FEE	\$ 0
ENTITY STATUS	Small		

1. CHANGE OF CORRESPONDENCE ADDRESS AND/OR INDICATION OF FEE ADDRESS (37 CFR 1.33 & 1.363)

Correspondence Address

CURRENT ADDRESS

Maintenance Fee Address

CURRENT ADDRESS



Change of correspondence address requested, system generated AIA/122-PC form attached



Fee address indication requested, system generated SB/47-PC form attached

2. ENTITY STATUS

Change in Entity Status

NEW STATUS

3. THE FOLLOWING FEES ARE SUBMITTED



Issue Fee



Publication Fee

4. FEE AUTHORIZATION



I authorize USPTO to apply my previously paid issue fee to the current fees due



The Director is hereby authorized to apply my previously paid issue fee to the current fee due and to charge deficient fees to Deposit Account Number:



If in addition to the payment of the issue fee amount submitted with this form, there are any discrepancies in any amount(s) due, the Director is authorized to charge any deficiency, or credit any overpayment, to Deposit Account Number: 604452

5. FIRM AND/OR ATTORNEY NAMES TO BE PRINTED

NOTE: If no name is listed, no name will be printed

For printing on the patent front page, list to be displayed as entered

6. ASSIGNEE NAME(S) AND RESIDENCE DATA TO BE PRINTED

NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

Signature

I certify, in accordance with 37 CFR 1.4(d)(4) that I am an attorney or agent registered to practice before the Patent and Trademark Office who has filed and has been granted power of attorney in this application. I also certify that this Fee(s) Transmittal form is being transmitted to the USPTO via Patent Center on the date

indicated below.

Signature	Name	Registration #	Date
/Brian D. Batt/	Brian Batt	77779	05/20/2024



ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
18/382,845

RECEIPT DATE / TIME
05/20/2024 06:49:11 PM Z ET

ATTORNEY DOCKET #
22-160.NP

Title of Invention

FIREARM SUPPRESSION SYSTEM

Application Information

APPLICATION TYPE Utility - Nonprovisional Application
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 2084

FILED BY Brian Batt

PATENT CENTER # 65601838

FILING DATE 10/23/2023

CUSTOMER # 181674

FIRST NAMED INVENTOR
Lonnie Jarvis

CORRESPONDENCE ADDRESS -

AUTHORIZED BY -

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
web85b.pdf	3	Issue Fee Payment (PTO-85B)	60 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
web85b.pdf	3A8855FE7DD432F7ACD9E443852E797C64DCB01EF9CA92F96 6A7F110F1FC82BA6E425830F6CB69E1F85E3E0AD86CCB3A61 C45F86ED62A689304E5F4088E7E4B0

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.



UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION #
18/382,845

RECEIPT DATE / TIME
05/20/2024 06:49:11 PM Z ET

ATTORNEY DOCKET #
22-160.NP

Title of Invention

FIREARM SUPPRESSION SYSTEM

Application Information

APPLICATION TYPE Utility - Nonprovisional Application
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 2084

FILED BY Brian Batt

PATENT CENTER # 65601838

AUTHORIZED BY -

CUSTOMER # 181674

FILING DATE 10/23/2023

CORRESPONDENCE
ADDRESS -

FIRST NAMED
INVENTOR Lonnie Jarvis

Payment Information

PAYMENT METHOD
CARD / 5071

PAYMENT TRANSACTION ID
E20245JI49366900

PAYMENT AUTHORIZED BY
Brian Batt

PRE-AUTHORIZED ACCOUNT
604452

PRE-AUTHORIZED CATEGORY

37 CFR 1.16 (National application filing, search, and examination fees); 37
CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19
(Document supply fees); 37 CFR 1.20 (Post issuance fees); 37 CFR 1.21
(Miscellaneous fees and charges)

FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
2501	UTILITY ISSUE FEE	480.00	1	480.00
TOTAL AMOUNT:				\$480.00

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.



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 NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/382,845	06/25/2024	12018906	22-160.NP	2084

181674 7590 06/05/2024
Beard St Clair Gaffney PA
520 First American Circle
Rexburg, ID 83440

ISSUE NOTIFICATION

The projected patent number and issue date are specified above. The patent will issue electronically. The electronically issued patent is the official patent grant pursuant to 35 U.S.C. § 153. The patent may be accessed on or after the issue date through Patent Center at <https://patentcenter.uspto.gov/>. The patent will be available in both the public and the private sides of Patent Center. Further assistance in electronically accessing the patent, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-888-217-9197.

The USPTO is implementing electronic patent issuance with a transition period, during which period the USPTO will mail a ceremonial paper copy of the electronic patent grant to the correspondence address of record. Additional copies of the patent (i.e., certified and presentation copies) may be ordered for a fee from the USPTO's Certified Copy Center at <https://certifiedcopycenter.uspto.gov/index.html>. The Certified Copy Center may be reached at (800)972-6382.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Center (<https://patentcenter.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

INVENTOR(s) (Please see PATENT CENTER site <https://patentcenter.uspto.gov> for additional inventors):

Lonnie Jarvis, Rexburg, ID;

APPLICANT(s) (Please see PATENT CENTER site <https://patentcenter.uspto.gov> for additional applicants):

Jarvis Arms LLC, Rexburg, ID;

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 USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.



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 NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/382,845	10/23/2023	Lonnie Jarvis	22-160.NP	2084
181674	7590	06/26/2024	EXAMINER	
Beard St Clair Gaffney PA 520 First American Circle Rexburg, ID 83440			PHILLIPS, FORREST M	
		ART UNIT	PAPER NUMBER	
		2837		
		MAIL DATE	DELIVERY MODE	
		06/26/2024	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

APPLICATION NO.	ISSUE DATE	PATENT NO.
18/382,845	25-Jun-2024	12018906

Beard St Clair Gaffney PA
520 First American Circle
Rexburg, ID 83440

EGRANT NOTIFICATION

Your electronic patent grant (eGrant) is now available, which can be accessed via Patent Center at <https://patentcenter.uspto.gov>

The electronic patent grant is the official patent grant under 35 U.S.C. 153. For more information, please visit <https://www.uspto.gov/electronicgrants>