

**USPTO coversheet:**

**Collaborative deferred-fee provisional patent application pilot program for COVID-19 invention,  
85 Fed. Reg. 58038 (September 17, 2020)**

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Title of invention	Medical portable shower scooter
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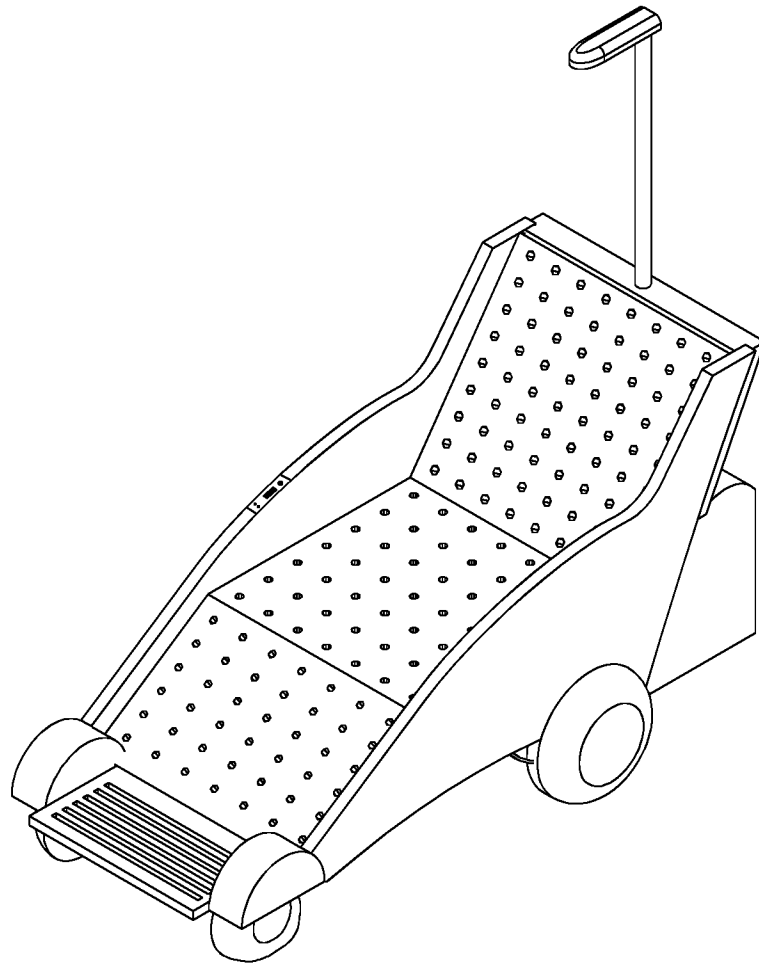


FIG. 1

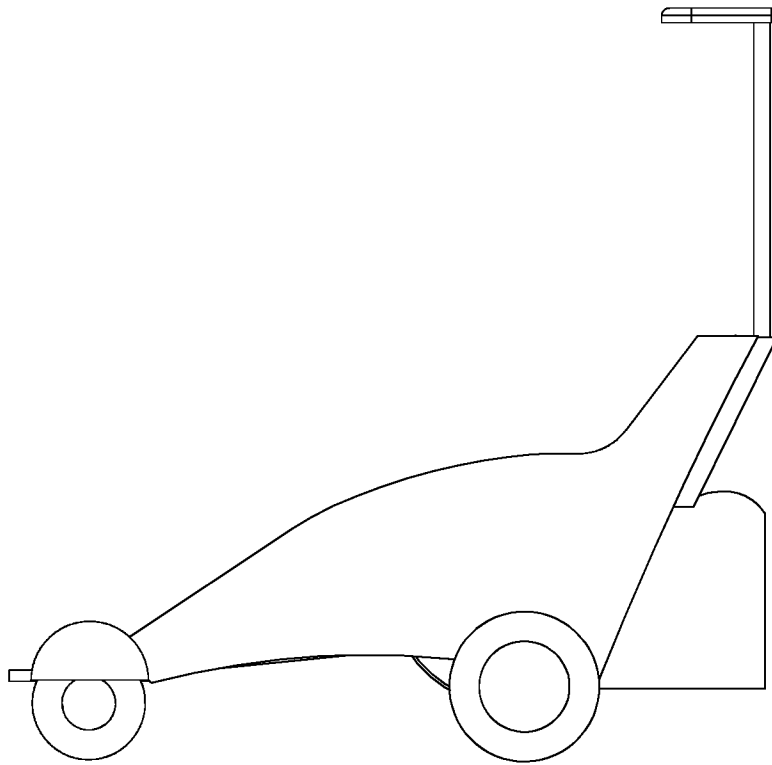


FIG. 2

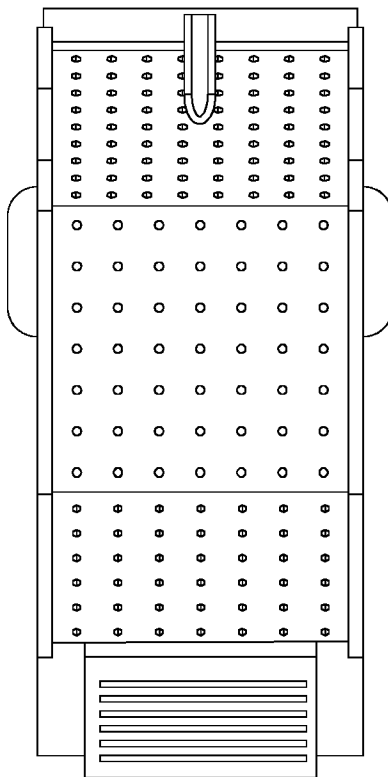


FIG. 3

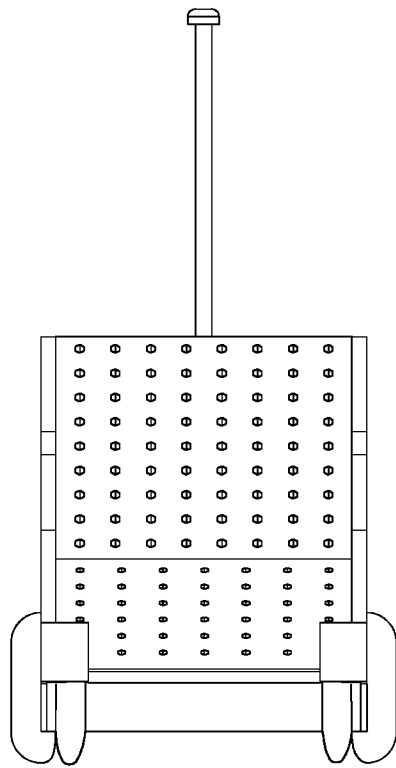


FIG. 4

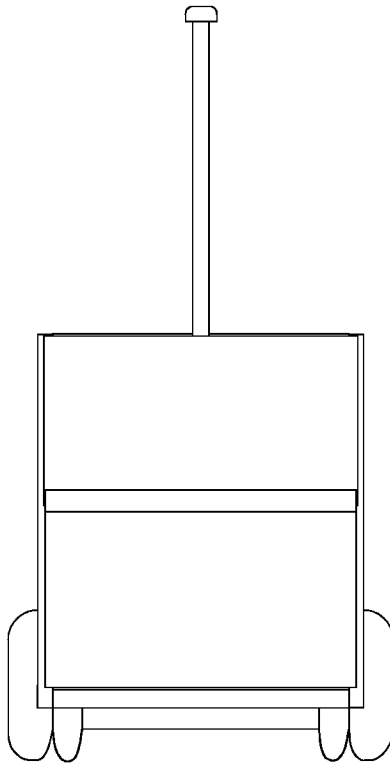


FIG. 5

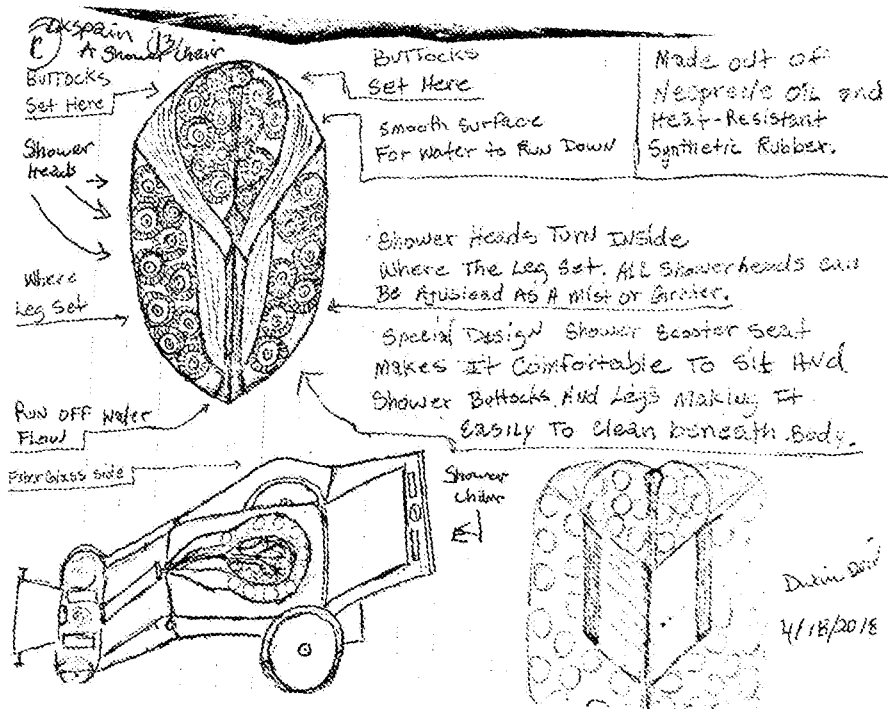
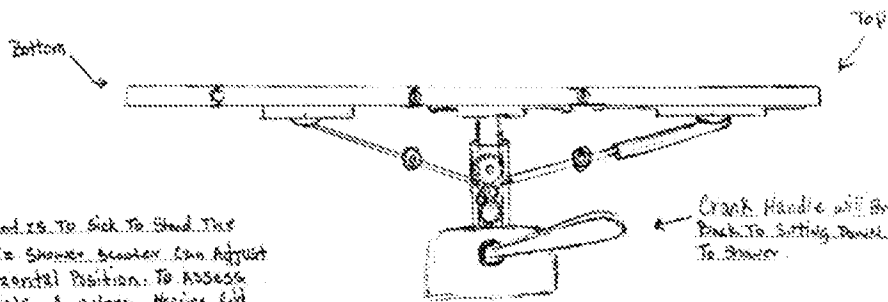


FIG. 6



1. The Patient is To Sit To Use The  
 Medical Mobile Shower. Seater Can Adjust  
 Its 2 Horizontal Position. To Assess  
 under Patients, Amputees, Missing Limb  
 via 11 Patients In A Laying Down.  
 2. Seater In Hospital or In Their Home.  
 3. An Assistant L.S.

Crank Handle will Bring Patient  
 Back To Sitting Post Position  
 To Shower.

1A.A  
 Side View

Devin J. Dennis  
 4/18/2018

FIG. 7



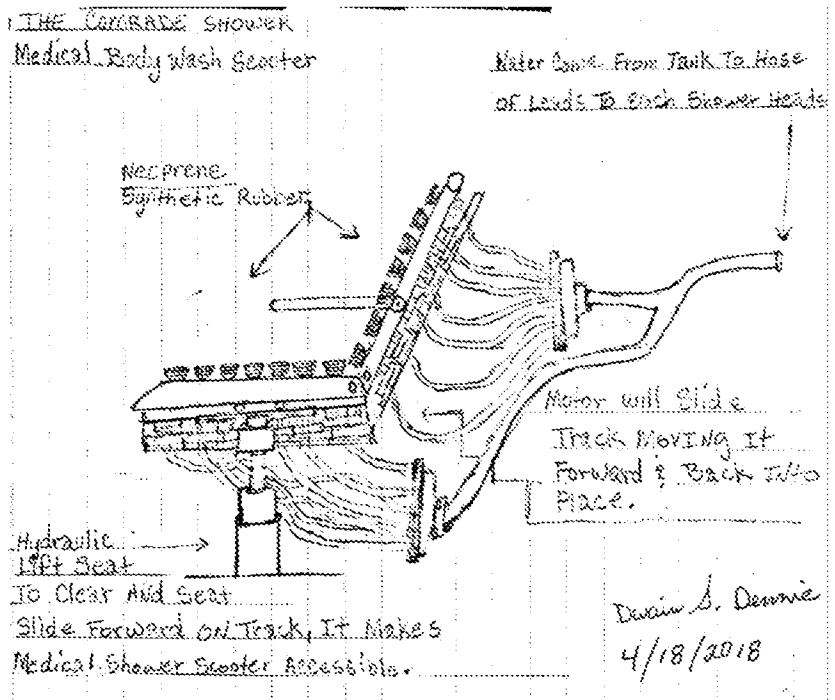


FIG. 8

10

- FRAME -

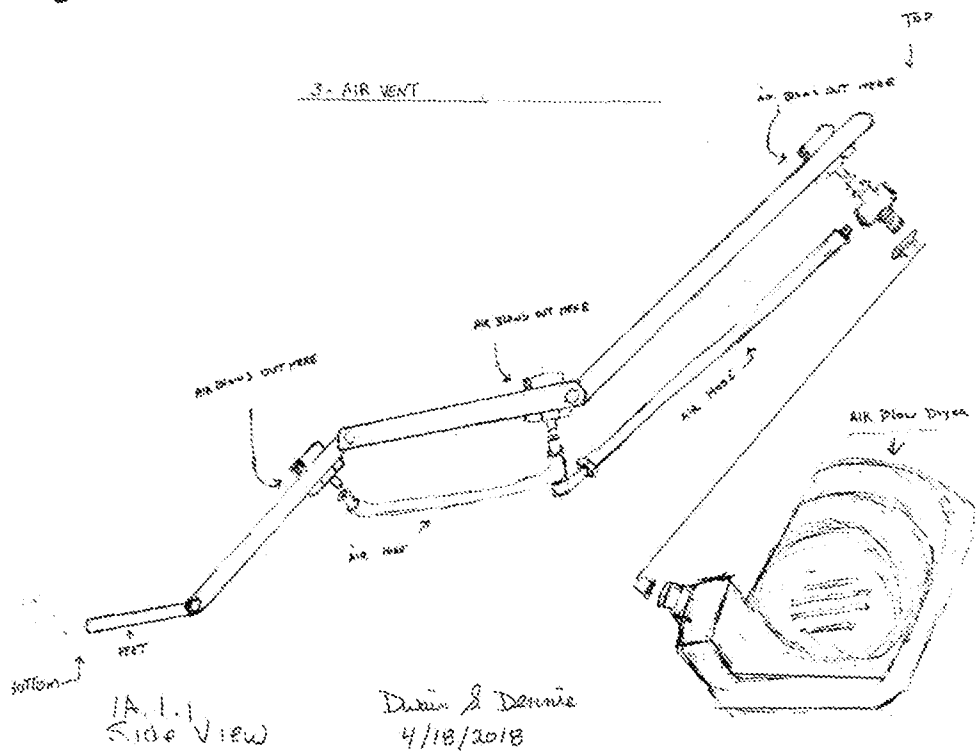


FIG. 9

# Medical Portable Shower Scooter

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## FIELD OF THE INVENTION

The present invention generally relates to a shower device. More specifically, the present invention relates to a medical shower scooter that facilitates the showering and bathing of physically challenged persons.

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## BACKGROUND OF THE INVENTION

A medical shower scooter is in demand. Many people become physically challenged with age, injury, or disease. Such people include amputees, cancer patients, hospice patients, and other bed-ridden patients who encounter difficulty in bathing or showering. For example, people might have trouble standing in a shower stall or a bathtub while taking a shower without gripping handrails on the inside of the bathtub or shower, if available. Such persons can easily collapse during a shower or might not have the strength to take a shower in the first place.

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Companies have developed various devices for supporting a person in a sitting position while bathing or showering. Some companies have developed a device that provides an entrance mechanism to the bathtub or shower for physically challenged users. However, such devices may necessitate major structural changes to the existing bathing or showering facility and/or the surrounding wall or floor area. Permanent modification of an existing bathing or showering facility may be undesirable from cost and other standpoints. Moreover, many conventional solutions to the problem may not enable a physically challenged user to obtain a full-body wash, especially when the person needs to move from one place to another. In a bathroom or a hospital facility, for example, a physically challenged person might not be able to move around during the shower even if he or she needs to. Thus, there is a need to develop a device that solves the problem.

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The present invention is intended to address problems associated with and/or otherwise improve on conventional devices through an innovative shower device that is designed to provide physically challenged people with mobility and a convenient, effective means of showering while incorporating other problem-solving features.

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#### BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view of one embodiment of the present invention.

FIG. 2 is a side view of one embodiment of the present invention.

10 FIG. 3 is a top view of one embodiment of the present invention.

FIG. 4 is a front view of one embodiment of the present invention.

FIG. 5 is a rear view of one embodiment of the present invention.

FIG. 6 is an illustration of one embodiment of the present invention with the seat frame with holes concentrated on the buttocks.

15 FIG. 7 is an illustration of one embodiment of the position control member of the present invention.

FIG. 8 is an illustration of one embodiment of the supply connection member of the present invention.

20 FIG. 9 is an illustration of one embodiment of the present invention connected to a blow dryer.

#### DETAIL DESCRIPTIONS OF THE INVENTION

25 All illustrations of the drawings are for the purpose of describing selected versions of the present invention and are not intended to limit the scope of the present invention.

The present invention provides a self-disinfectant scooter that allows the user to shower and become completely clean on his or her own, with a primary showerhead under the seat and shower heads and dryer located around. The present invention features 30 a water tank and a scooter tray that collects water, minimizing subsequent cleanup. The

present invention can be used anywhere, whether in a mobile setting or at bedsides in homes, hospitals, and other medical facilities.

The present invention can be used with or without assistance, allowing the user to lie horizontally and sit vertically. Additional accessories and special shower attachments  
5 create a seamless, yet enjoyable experience. This self-disinfectant scooter can accommodate various users, including amputees, cancer patients, hospice patients, and other bed-ridden patients.

As shown in FIGS. 1 to 5, the present invention provides a shower device that comprises a scooter member, seat frame, water tank, dryer, shower member, heater, and  
10 plurality of valves.

The seat frame, water tank, dryer, shower member, heater, and valves can be attached to the scooter member to form the shower device of the present invention.

The scooter member may include a scooter or any motorized machine that can carry a person of normal weight.

15 The scooter member may include a seat, a backrest assembly, and at least one handrail assembly, with the seat able to be configured to fit the backrest assembly and the handrail assembly.

The backrest assembly and each handrail assembly may include a rail support frame and a rail support bracket, which may be attached to the seat top, with the rail  
20 support frame able to extend from the rail support bracket. In some embodiments, a handrail assembly may be provided on each side and a backrest assembly on the rear of the seat to stabilize a user sitting on the seat.

The seat frame may include a plurality of holes or apertures, which can be arranged in any pattern, such as in rows and columns. In some embodiments, some  
25 apertures or holes could be concentrated to create a desired spray pattern. For example, the seat frame may include apertures or holes concentrated on the buttocks, providing hydrotherapy action through a general massage of the user's skin, as shown in FIG. 6.

The seat frame can be attached to the seat of the scooter member. In some embodiments, the seat frame may include one or more grooves that guide the water to a  
30 drainage pipe, which can be included in the shower device and attached in a suitable place, such as at the bottom, near the footrest section.

In some embodiments, the seat frame may include a back section, a middle seat section, a leg section, a footrest section, and a hinge or other connecting member to connect the back section to the middle seat section, which can be connected to the leg section by the hinge and to the footrest section by the hinge. Such hinged connections  
5 allow the seat frame to be folded to a desired angle so that the user can shower in the desired position.

In some embodiments, the seat frame can be connected to a position control member that may comprise a crank handle and multiple gears used to provide positional change in the seat frame by moving the back section, middle seat section, and leg section.  
10 Such a position control member may be connected to the back section, middle seat section, and leg section by one or more links, as shown in FIG. 7.

In some embodiments, the backrest assembly of the scooter member can be made of a flexible material and can be attached to the seat frame to allow integral movement when the position or angle of each section of the seat frame—especially the back  
15 section—changes.

The seat frame may be connected to a pump and a supply connection member, which can be included in the shower device. The supply connection member can be a structure with one or more valves or hoses configured so as to connect the pump to the holes in the seat frame, as shown in FIG. 8.

20 The pump can be any known in the art that allows the user to vary its speed to control the water flow rate. This pump can be connected to the water tank, which can be of any suitable shape and size. In this configuration, water under pressure passes through the supply connection member and exits through multiple apertures or holes.

The pump, the supply connection member, and the water tank can be located  
25 inside the scooter member or any other desired place inside or outside the scooter member.

In some embodiments, the seat frame may include one or more channels in a suitable shape, with the holes placed in the channels. The apertures or holes within the channels can generate a water spray that that can be directed toward the user's body.

30 In some embodiments, the seat frame may be connected to a blow dryer, as shown in FIG. 9, which can be included in the shower device. In such embodiments, the seat

member may include holes that allow air to blow out of the dryer, which can be attached to various hoses that connect the dryer to the holes for delivery of air. This air can be used to dry the user's body after a shower.

5 In some embodiments, the shower device of the present invention may include one or more electronic control devices and one or more electronic circuits configured to control the positions of the seat frame or movement of the scooter member. The pump, electronic control device, and electronic circuits can be powered by the battery provided in the scooter member.

10 In some embodiments, the shower device of the present invention may also include a heater, which can be any small heater known in the art, with which to warm the user. The heater can include a flexible cable and a handle and can be configured to be stored in a suitable place on the scooter member.

The scooter member may include a shaft collar that can be connected to the shower member and the pump and placed in the rear of the scooter member.

15 The shower member may include a shower nozzle and a shower shaft that may be sized and configured for insertion in the shaft collar to deliver water through the shower shaft. The shower shaft can be a cylindrical tube long enough to provide water to the user. In some embodiments, the shower shaft can include multiple sections, with a telescoping mechanism used to adjust its length.

20 In some embodiments, the shower nozzle can be inserted directly into the shaft collar of the scooter member.

In some embodiments, the shower nozzle can be attached to the shower shaft directly or by a flexible hose. In some other embodiments, the shower shaft can be L-shaped so that the shower nozzle can be attached at the end of the shower shaft, above the  
25 sear area of the scooter member. In yet some other embodiments, the shower nozzle can include a shower head that can be of any desired size and shape, including rectangular and circular.

Although the invention has been explained in relation to its preferred  
30 embodiment, it is to be understood that many other possible modifications and variations can be made without departing from the spirit and scope of the invention.

## CERTIFICATION AND REQUEST FOR COVID-19 PROVISIONAL PATENT APPLICATION PROGRAM

(Page 1 of 1)

First Named Inventor:	Dwain Dennie
Title of Invention:	Medical Portable Shower Scooter
Contact information to include in database (optional)	Dennie.Dwain561@gmail.com, tijinae@gmail.com

**APPLICANT HEREBY MAKES THE FOLLOWING CERTIFICATIONS AND REQUESTS THAT THE USPTO INCLUDE THE DESCRIPTION OF THE ACCOMPANYING PROVISIONAL PATENT APPLICATION IN A PUBLIC DATABASE.**

1. The description of the accompanying provisional patent application concerns a product or process relating to COVID-19 and such product or process is subject to an applicable FDA approval for COVID-19 use.
2. The accompanying application is in the English language.
3. The accompanying application is being filed in DOCX format via the USPTO's Patent Center filing system, together with this form.
4. The applicant understands that while the required filing fee for the accompanying provisional application may be deferred by acceptance into this program, the appropriate filing fee must be paid in order for a subsequent U.S. nonprovisional application to claim the benefit of the filing date of the accompanying provisional application. Applicant recognizes that the filing fee due in the future may be more than the current fee due and that by deferring payment of the filing fee, there may be an increase in the total fee due.
5. Applicant authorizes and requests that the description, including the specification and any drawings, claims and/or abstract of the accompanying provisional patent application, as well as this form, be included in a searchable online public database.
6. Applicant understands that inclusion in the public database is a publication of the description and this form.

Signature	Date 01/19/2021
Name (Print/Typed) Dwain Dennie	Practitioner Registration Number

**Note:** This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required.\*

\*Total of \_\_\_\_\_ forms are submitted.



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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.