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UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i>		Attorney Docket No. DUVALL_20_DIV1	
		First Named Inventor Gideon Duvall	
		Title Device and System for Brewing Infused Beverages	
		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
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<ol style="list-style-type: none"> 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>37</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>6</u>] 6. Inventor's Oath or Declaration [Total Pages <u>1</u>] (including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e)) <ol style="list-style-type: none"> 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) <div style="margin-left: 20px;"> ☐ Landscape Table on CD </div> 9. Nucleotide and/or Amino Acid Sequence Submission (if applicable, items a. – c. are required) <ol style="list-style-type: none"> a. ☐ Computer Readable Form (CRF) b. ☐ Specification Sequence Listing on: <ol style="list-style-type: none"> i. ☐ CD-ROM or CD-R (2 copies); or ii. ☐ Paper c. ☐ Statements verifying identity of above copies 	ACCOMPANYING APPLICATION PAPERS <ol style="list-style-type: none"> 10. ☐ Assignment Papers (cover sheet & document(s)) Name of Assignee _____ 11. ☐ 37 CFR 3.73(c) Statement ☐ Power of Attorney (when there is an assignee) 12. ☐ English Translation Document (if applicable) 13. ☐ Information Disclosure Statement (PTO/SB/08 or PTO-1449) <div style="margin-left: 20px;">☐ Copies of citations attached</div> 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: _____ _____ _____ _____
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DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES

CROSS-REFERENCE TO RELATED APPLICATION

[0001] This is a divisional application of pending U.S. Nonprovisional Patent Application Serial No. 15/845,946, filed on December 18, 2018, which was a continuation of U.S. Nonprovisional Patent Application Serial No. 14/421,362, filed on February 12, 2015 and patented as Patent No. 9,867,491, which was a 371 Nationalized Application of International Serial No. PCT/US2013/055348, filed on August 16, 2013 and now expired, which claims priority to U.S. Provisional Patent Application No. US 61/742,688, filed on August 16, 2012 and now expired, the entirety of which is incorporated by reference.

FIELD OF THE INVENTION

[0002] The present invention relates to beverage brewing systems that utilize pressure, temperature, and flow of a solvent through a solute.

BACKGROUND OF THE INVENTION

[0003] The creation of brewed or infused beverages through the infusion of a solvent with a solute contained within a filter media has been performed for over one hundred years. Over time it has come to be understood that the modification of brewing variables, such as infusion temperature, pressure, and flow rate of solvent through solute, change the resulting beverage's chemical composition and taste. Thus, many brewing systems have been developed that seek to enable flavor modification through selective modulation of one or more brewing variables. However, few, if any, brewing systems facilitate dynamic, i.e., within the brewing cycle, modulation of one or more of these variables during an infusion. Of those that do, modulation of one or more variables during an infusion results in unintended changes to other brewing variables. This lack

of independent variable control makes the optimization and modification of infused beverages difficult.

[0004] For instance, currently available brewing systems that enable users to modify pressure during an infusion rely on back pressure generated in a brewing chamber by a resistive media typically composed of a filter and solute. In one configuration, brew chamber pressure modification is achieved by modulating the resistance of said resistive solute media while holding pumping energy constant. While this does result in a change in infusion pressure, it also changes the infusion flow rate. In another conventionally available system, the user modifies infusion pressure through the variation of solvent pumping force while keeping the resistance of the resistive media constant. This too results in an increase in infusion pressure and simultaneous change in infusion flow rate. Thus, in conventional systems, the variables of pressure and flow rate during the infusion process are dependent upon each other. As pressure and flow rate are both known to affect the chemical composition of the brewed infusion, there is an apparent need for a brewing system that affords independent modulation of infusion pressure and flow rate enabling the user to optimize infused solution chemical composition and produce consistent beverages.

[0005] Some known devices that are configured to modify one or more brewing variables to provide dynamic pressure control, but, again, lack control over flow rate independent of the pressure control. Specifically, said devices enable the user to create and execute brew formulas which modulate brew pressure and temperature with respect to time. This is performed through the use of a pressure sensor to monitor the infusion pressure within a brew chamber and modulating the pumping force of a water pump such that the desired infusion pressure is achieved in the brew chamber. Temperature control of infusion water is performed by utilizing a proportional mixing valve that is controlled by a controller to mix hot and cold water. While the aforementioned device

may be capable of providing dynamic temperature and pressure control, it does so at the expense of the ability to regulate flow rate of the exiting infused beverage. The varying exiting flow rate disadvantageously creates inconsistent beverage output, which is costly for many retailers of beverages. The inconsistencies also are problematic for retailers and consumers, alike, as both the taste of the beverage and the amount of the beverage may change at each brewing cycle. Thus, flow rate, total dispensed volume, and ultimately beverage taste are dependent on variables such as fluctuations in solute particle size, packing density, solute quantity, along with filter media resistivity. As such, this makes it highly difficult to duplicate the flavor of an extraction even if the same brew formula of infusion pressure and temperature with respect to time are used.

[0006] It is well understood that infusion temperature also affects chemical composition of an infused beverage solution. Thus, an operator may find it advantageous to modify brewing infusion temperature during the brewing process to optimize flavor. Current brewing systems utilize boilers and brewing chambers with large thermal masses that are designed to provide consistent brewing temperature thus prohibiting the use of variable infusion temperatures to create optimal flavor. Therefore, a beverage brewing system that affords precise, accurate and dynamic temperature control would enable optimization of beverage flavor and is needed.

[0007] As previously explained, there is an acute need for a brewing system that affords the brewer independent, dynamic variation of brewing variables of temperature, pressure and flow rate during the production of infused beverages. Furthermore, there is a need for a brewing system that mitigates and / or eliminates the impact of external factors such as solute particle size variations and solute compaction on the beverage flavor.

SUMMARY OF THE INVENTION

[0008] The present invention relates to a system and method of brewing beverages that satisfies the outlined need, facilitating dynamic, independent control of pressure, temperature and flow rate of solvent through solute contained within a filter during the infusion process. An exemplary brewing system is composed of a Solvent Flow Management System (SFMS) configured such that a desired flow rate is maintained regardless of pressure variations in the brewing chamber or other areas. This SFMS is operably connected to a Solvent Temperature Management System (STMS) that selectively and dynamically modulates (i.e., keep constant or change) the infusion temperature. The STMS is operably connected to a brewing chamber where solute resides within a filtering device and the infusion occurs. Operably connected to the brewing chamber is a Solution Pressure Management System (SPMS) which facilitates dynamic modulation of pressure within said brewing chamber.

[0009] Although the invention is illustrated and described herein as embodied in a system and method for brewing beverages with independently controlled flow rate, temperature, and pressure, it is, nevertheless, not intended to be limited to the details shown because various modifications and structural changes may be made therein without departing from the spirit of the invention and within the scope and range of equivalents of the claims. Additionally, well-known elements of exemplary embodiments of the invention will not be described in detail or will be omitted so as not to obscure the relevant details of the invention.

[0010] With the foregoing and other objects in view, there is provided, in accordance with the invention, an infused beverage brewing assembly having a solvent flow management system with a first solvent pump fluidly coupled to a first solvent conduit and operably configured to receive a solvent and induce the flow of the solvent therethrough and a second solvent pump fluidly coupled to a second solvent conduit and operably configured to receive another solvent, separate from the

solvent operably configured to be received within the first solvent pump, and induce the flow of the another solvent therethrough. The assembly also has a solvent temperature modulation system with at least one thermal modulator in fluid communication with the first solvent conduit, the first and second solvent conduits directly and fluidly coupled together to form a conduit joint downstream of the thermal modulator to form a resulting solvent conduit with a resulting solvent disposed therein at a resulting temperature and the at least one thermal modulator operably configured to thermally modulate the solvent disposed in the first solvent conduit to a raised temperature higher and different than the resulting temperature. The assembly also includes a brewing chamber in fluid communication with the resulting solvent conduit and for housing a solute disposed to receive the resulting solvent to produce an infused beverage, and an outlet for discharging the infused beverage. The assembly or system also includes an electronic controller communicatively coupled to the first and second solvent pumps and the at least one thermal modulator, and operably configured to modulate the flow of the solvent through the first solvent pump and the at least one thermal modulator and the another solvent through the second solvent pump.

[0011] In accordance with another feature, an embodiment of the present invention includes at least one solvent flow meter communicatively coupled to the first and second solvent pumps.

[0012] In accordance with a further feature of the present invention, the electronic controller is communicatively coupled to the at least one solvent flow meter and operably configured to receive an electronic signal from the at least one solvent flow meter indicative of a flow rate and to modulate the flow of the solvent through at least one of the first solvent pump and the another solvent through the second solvent pump based on the flow rate ascertainable from the at least one solvent flow meter.

[0013] In accordance with a further feature of the present invention, the electronic controller is operably configured to dynamically modulate the flow of the solvent through at least one of the first solvent pump and the another solvent through the second solvent pump based on the flow rate ascertainable from the at least one solvent flow meter.

[0014] In accordance with yet another feature, an embodiment of the present invention also includes the solvent temperature modulation system having a thermal modulator in fluid communication with the first solvent conduit and a thermal modulator in fluid communication with the second solvent conduit, each of the thermal modulators operably configured to thermally modulate the solvent and the another solvent disposed within the first and second solvent conduits, respectively, to a raised temperature higher and different than a temperature of the solvent and the another solvent upstream of the thermal modulators.

[0015] In accordance with a further feature of the present invention, the electronic controller is communicatively coupled to the thermal modulator in fluid communication with the first solvent conduit and the thermal modulator in fluid communication with the second solvent conduit and the electronic controller is operably configured to dynamically modulate the temperature of the solvent in the first solvent conduit and the another solvent in the second solvent conduit.

[0016] In accordance with an additional feature, an embodiment of the present invention also includes at least one solvent flow meter communicatively coupled to the first and second solvent pumps.

[0017] In accordance with a further feature of the present invention, the electronic controller is communicatively coupled to the at least one solvent flow meter and operably configured to receive an electronic signal from the at least one solvent flow meter indicative of a flow rate and to

modulate the flow of the solvent through at least one of the first solvent pump and the another solvent through the second solvent pump based on the flow rate ascertainable from the at least one solvent flow meter.

[0018] In accordance with an additional feature, an embodiment of the present invention also includes a temperature measuring device communicatively coupled to the electronic controller and fluidly coupled to the resulting solvent conduit, the electronic controller operably configured to dynamically thermally modulate, through at least one of the thermal modulators, at least one of the solvent and the another solvent disposed within the first and second solvent conduits, respectively.

[0019] In accordance with an additional feature, an embodiment of the present invention also includes a temperature measuring device communicatively coupled to the electronic controller and fluidly coupled to the resulting solvent conduit, the electronic controller operably configured to dynamically thermally modulate, through the at least one thermal modulator, the solvent disposed within the first solvent conduit.

[0020] In accordance with a further feature of the present invention, the electronic controller is operably configured to receive a desired temperature for the resulting temperature in the brewing chamber and a desired flow rate for the resulting solvent in the brewing chamber.

[0021] In accordance with a further feature of the present invention, the electronic controller is operably configured to dynamically thermally modulate, through the at least one thermal modulator, the solvent disposed within the first solvent conduit until the resulting temperature in the brewing chamber reaches the desired temperature for the resulting temperature in the brewing chamber.

[0022] In accordance with a further feature of the present invention, the infusion process pressure is selectively defined. Each parameter may be “defined” to particular value. As such, “defined” entails purposely manifesting a selected value, as opposed to adjusting a parameter without a specific set point guiding the adjustment.

[0023] In accordance with another feature, an embodiment of the present invention includes an electronic control system that is operated to monitor and modulate a performance of the solvent flow management system, the solvent temperature management system, and the infusion pressure regulation system such that infusion process parameters of at least one of an infusion temperature, an infusion pressure, an infusion flow rate, a dispensed beverage volume, and an infusion duration are appreciably controlled and dynamically modulated during the infusion process. “Appreciably controlled,” as it relates to performance of the brewing system, is defined as being controlled to a minimum extent that said control is capable of making a quantifiable difference in the end result or effect over having no purposeful control.

[0024] In accordance with another feature, an embodiment of the present invention includes a solute modification system communicatively coupled to the electronic control system, the solute modification system is operable to adjust either the solute particle size, through an electronic grinder, or the solute compaction, through a compaction tool, e.g., a press. Said modification is configured to ensure consistent flavor of brewed beverages by modifying solute resistivity to ensure formula specified parameters are manifested during a brew. Additionally, it may be configured to further ensure consistency of flavor by monitoring SPMS performance during execution of a brew formula and modifying the amount of solute resistance to maintain equal SPMS performance for each execution of a brew formula. For instance, if a brewing system is executing the same brew formula multiple times in a row and finds that SPMS has to increase the

amount of back pressure it adds in relation to previous infusions, solute modification system will increase amount of resistance provided by solute during the infusion by decreasing size of solute particles and / or increasing the compaction of solute particles such that future infusions require SPMS to modify pressure to the same extent as an earlier brew formula execution or as specified within the brew formula. As will be understood by those skilled in the art, adjustment of said solvent modification system may be performed in an automated fashion controlled by an algorithm such as a proportional integral derivative algorithm.

[0025] In the instance of a beverage brewing system having only SFMS, STMS coupled to a brew chamber, a pressure sensor monitoring infusion pressure may be utilized to track variances in generated infusion pressure for the same brew formula. Said variances may be processed by a control system which modifies performance of a communicatively coupled solute modification system which may modify particle size and /or compaction as previously described in order to maintain a specified infusion pressure. In accordance with a further feature, the present invention also discloses a system for creating an infused beverage, the system including (1) a solvent flow management system configured to flow a solvent through a plurality of conduits in an infused beverage assembly, (2) a solvent temperature modulation system configured to modulate the temperature of the solvent, (3) a brewing chamber in which infusion of a solute and the solvent occurs to generate an infused beverage, the brewing chamber having an infusion process pressure and in fluid communication with at least one of the solvent flow management system and the solvent temperature modulation system, (4) an infusion pressure regulation system at least partially located downstream of the brewing chamber, the infusion pressure regulation system configured to selectively define and dynamically increase the infusion process pressure greater than a pressure

created upstream in the brewing chamber caused by a flow of the solvent through the solute, and
(5) an outlet for discharging the infused beverage.

[0026] Other features that are considered as characteristic for the invention are set forth in the appended claims. As required, detailed embodiments of the present invention are disclosed herein; however, it is to be understood that the disclosed embodiments are merely exemplary of the invention, which can be embodied in various forms. Therefore, specific structural and functional details disclosed herein are not to be interpreted as limiting, but merely as a basis for the claims and as a representative basis for teaching one of ordinary skill in the art to variously employ the present invention in virtually any appropriately detailed structure. Further, the terms and phrases used herein are not intended to be limiting; but rather, to provide an understandable description of the invention. While the specification concludes with claims defining the features of the invention that are regarded as novel, it is believed that the invention will be better understood from a consideration of the following description in conjunction with the drawing figures, in which like reference numerals are carried forward. The figures of the drawings are not drawn to scale.

[0027] Before the present invention is disclosed and described, it is to be understood that the terminology used herein is for the purpose of describing particular embodiments only and is not intended to be limiting. The terms “a” or “an,” as used herein, are defined as one or more than one. The term “plurality,” as used herein, is defined as two or more than two. The term “another,” as used herein, is defined as at least a second or more. The terms “including” and/or “having,” as used herein, are defined as comprising (i.e., open language). The term “coupled,” as used herein, is defined as connected, although not necessarily directly, and not necessarily mechanically. The word “system,” as used herein, is defined as one or more devices or components that form a network for performing or distributing something or operating for a common purpose. The word

“correspond” or its equivalent is defined as being similar or equivalent in character, quantity, origin, structure or function

[0028] As used herein, the terms “about” or “approximately” apply to all numeric values, whether or not explicitly indicated. These terms generally refer to a range of numbers that one of skill in the art would consider equivalent to the recited values (i.e., having the same function or result). In many instances these terms may include numbers that are rounded to the nearest significant figure. The terms “program,” “software application,” and the like as used herein, are defined as a sequence of instructions designed for execution on a computer system. A “program,” “computer program,” or “software application” may include a subroutine, a function, a procedure, an object method, an object implementation, an executable application, an applet, a servlet, a source code, an object code, a shared library/dynamic load library and/or other sequence of instructions designed for execution on a computer system.

BRIEF DESCRIPTION OF THE DRAWINGS

[0029] The accompanying figures, where like reference numerals refer to identical or functionally similar elements throughout the separate views and which together with the detailed description below are incorporated in and form part of the specification, serve to further illustrate various embodiments and explain various principles and advantages all in accordance with the present invention.

[0030] FIG. 1 is a schematic diagram depicting an independently controlled beverage brewing system in accordance with one embodiment of the present invention;

[0031] FIG. 2 is a schematic diagram depicting an independently controlled beverage brewing system in accordance with another embodiment of the present invention;

[0032] FIG. 3 is a schematic diagram depicting an independently controlled beverage brewing system in accordance with another embodiment of the present invention;

[0033] FIG. 4 is a fragmentary perspective view of an independently controlled beverage brewing device in accordance with an embodiment of the present invention;

[0034] FIG. 5 is a process flow diagram depicting an exemplary process of programming the beverage brewing system of FIG. 1 in accordance with one embodiment of the present invention;
and

[0035] FIG. 6 is a process flow diagram depicting an exemplary process of operating the beverage brewing system of FIG. 1 in accordance with one embodiment of the present invention.

DETAILED DESCRIPTION

[0036] While the specification concludes with claims defining the features of the invention that are regarded as novel, it is believed that the invention will be better understood from a consideration of the following description in conjunction with the drawing figures, in which like reference numerals are carried forward. It is to be understood that the disclosed embodiments are merely exemplary of the invention, which can be embodied in various forms.

[0037] Although the invention is illustrated and described herein with reference to specific embodiments, the invention is not intended to be limited to the details shown. Rather, various modifications may be made in the details within the scope and range of equivalents of the claims and without departing from the invention.

[0038] With reference to FIG. 1, a schematic diagram depicting an exemplary brewing system 100 is shown. The brewing system 100 includes a solvent flow management system “SFMS” 110,

operably connected to a solvent temperature management system “STMS” 120. The STMS 120 is operably connected to the brewing/infusion chamber 130. The infusion chamber 130 is operably connected to a solution/infusion pressure management/regulation system “SPMS” 140. In operation, a solvent 111 enters the SFMS 110 where it is pumped at a chosen and selectively modulated rate throughout system 100. It can be appreciated by those skilled in the art that the brewing system 100 operates normally under conditions of constant flow (i.e., movement) through the solvent conduits. The term “conduit” is defined as any channel through which something is conveyed. In one embodiment, the conduit may start and terminate where it enters and leaves, respectively, from one component to another within the brewing system 100. In other embodiments, the conduit may start at the beginning of the infusion process (e.g., SFMS) and may terminate at the end of the infusion process (e.g., outlet). The solvent 111 then enters the STMS 120 where it is selectively, whether manually by a user or automated with a control system, thermally modulated to a chosen temperature. Subsequently, the solvent 111 enters the infusion chamber 130 where it comes in contact with the solute 131, thereby creating an infused solution 112. The “infused solution” may be considered any mixture of a single or multi-phase liquid substance. Particulate matter may be removed via a filter 132. The infused solution 112 passes through a SPMS 140. The SPMS 140 selectively modulates the infusion pressure in infusion chamber 130. The infused solution 112 is then dispensed into container 150.

[0039] According to another embodiment, the control system 160 is used to independently and automatically monitor and or modify solvent characteristic variables including, but not limited to, flow rate, temperature and pressure of the infusion in accordance with the user-programmed specifications. The control system 160 is operable to modify the flow rate of solvent 111 by accordingly adjusting the SFMS 110. Additionally, control system 160 modulates solvent

temperature through modulating STMS 120. Furthermore, the control system 160 may also adjust the pressure of the infusion by adjusting SPMS 140. During an infusion process, one or more of the aforementioned infusion parameters may be selectively modified during said infusion. This dynamic modification of said variables may be utilized to modify chemicals and/or dissolved solids infused into the resulting solution 112 producing a preferred beverage customizable by the user.

[0040] The parameters required to produce said preferred beverage may be created by a user remotely or on-site. Furthermore, said parameters may be stored as programs or brewing formulas in the control system 160, via a memory, and then may be recalled as desired to reproduce the preferred beverage. The control system 160 may be programmed to provide optimal infusion for numerous solutes or multiple preferred infusions with the same solute. As will be understood by those skilled in the art, to ensure accuracy and precision during the infusion process, feedback sensors, not shown, such as thermocouples, pressure meters, and flow meters may be positioned throughout brewing system 100. These sensors provide feedback to the appropriate control devices affording them the necessary data to modulate aspects of brewing system 100 to ensure programmed infusion conditions are achieved and maintained with consistency, if desired.

[0041] The control system 160 may track performance data such as the number, volume, and/or infusion parameters of infused beverages produced by the brewing system 100. This data may be combined with any recorded system errors or data that could be used to recommend and/or perform system maintenance. Data recorded by control system 160 may be accessed on-site or remotely.

[0042] As will be commonly understood, the brewing system 100 may be reconfigured such that SFMS 110 and STMS 120 are reversed such that solvent 111 initially flows into STMS 120, where

solvent is thermally modulated to the appropriate or desired temperature. Subsequently, the thermally modulated solvent 111 would enter SFMS 110 then flow into infusion chamber 130. The infusion chamber 130 may be any structural housing wherein a solute is capable of being disposed.

[0043] A preferred beverage may be produced by the incorporation of one or more of the dynamically adjustable systems, i.e., the SFMS 110, the STMS 120, and the SPMS 140. Said another way, any of the system 100 components, e.g., SFMS 110, are operable to adjust solvent/infusion parameters during an infusion process. In other embodiments, a beverage may be produced by a brewing system 100 that incorporates a non-dynamically controlled SPMS 140 and a dynamically controlled SFMS 110 and a STMS 120. Alternately, the brewing system 100 may include a non-dynamically controlled SFMS 110 and SPMS 140 and a dynamically controlled STMS 120.

[0044] Referring now to FIG. 2, a schematic diagram of a beverage brewing system 200 in an alternate configuration is shown. In said configuration, solvents 202 and 201 are pumped by two SFMS 210, the SFMS being operably connected to two STMS 220. After passing through the STMS 220, the thermally regulated solvents 202 and 201 combine to create a resulting solvent 203 of a resulting temperature. The resulting solvent 203 then passes into the brewing/infusion chamber 230, through a resulting solvent conduit—which may or may not be considered to be the same as a solvent conduit—where infusion of solute 232 and solvent 203 occurs. The result of the infusion of the solute 232 and solvent generates an infused solution 204. The infused solution 204 then passes through an infused solution conduit—which may or may not be considered to be the same as the solvent conduit or resulting solvent conduit—to a SPMS 240 and then exits the assembly through an outlet to a receptacle 250.

[0045] In the brewing system 200 shown in the figuration of FIG. 2, the SFMS 210 is composed of independently controlled pumping units 211 and 212, with the pump 212 receiving solvent 202 and the pump 211 receiving solvent 201. Said pumps 211, 212 work in tandem to provide an additive flow rate that is equivalent to the total desired infusion flow rate in the brewing chamber 230. For example, if the desired infusion flow rate is 1 cc/sec, the pump 211 may pump at 0.7 cc/sec and the pump 212 may pump at 0.3 cc/sec. The SFMS 210 may be independently controlled or coupled to control system 280, thereby modulating the pumps 211, 212 to achieve a required flow rate of solvents 201, 202 based on total desired flow rate of resulting solvent 203 and the desired infusion temperature as explained below.

[0046] In one embodiment, the SFMS 210 is operably connected to the STMS 220 where the solvent 202 is thermally modulated by a thermal modulator 222 and the solvent 201 is thermally modulated by a thermal modulator 221, such that the range of infusion temperatures desired by the user may be produced through their selective combination. Thermal modulations provided by thermal modulators 221, 222 dictate the solvent temperature range available for an infusion. For example, if a user desires to perform the infusion between 20° C and 100° C then thermal modulator 221 may yield solvent 201 at a temperature of 20° C or lower and thermal modulator 222 may yield solvent 202 at a temperature of 100° C or higher. In practice, to achieve infusion temperatures within this range, the SFMS 210 will selectively pump solvents 201, 202 through the STMS 220 at a rate that satisfies the desired overall infusion flow rate and temperature of the resulting solvent 203. For example, assuming a negligible thermal loss from the brewing chamber 230 and system conduits, if the user desires an infusion flow rate of 1 cc/sec and an infusion temperature of 90° C, the solvent 201 may be modulated to 100° C and the solvent 202 may be modulated to 20° C. The pump 212 will flow solvent 202 at a rate of 1/8 cc/sec and pump 211 will

flow solvent 201 at a rate of 7/8 cc/sec. In order to improve accuracy of the infusion temperature, the specific heat capacity and thermal conductivity of brewing chamber 230 and system conduits may be accounted for when determining solvents' 201, 202 flow rates. The STMS 220 may also be connected to the control system 280, which may modulate and/or monitor temperature of the respective solvents 201, 202, as necessary. Solvent temperatures and/or data from the STMS may be utilized by control system 280 to modulate the performance of the SFMS, thereby advantageously achieving a desired infusion temperature and infusion flow rate.

[0047] The STMS 220 is operably connected to the brewing chamber 230. In one embodiment, the brewing chamber 230 is composed of a chamber housing 231 and a filter system 233 designed to contain a solute 232. The brew chamber housing 231 may be designed with a removable section that readily facilitates the insertion or removal of the solute 232. In order to facilitate rapid, accurate, and dramatic fluctuations in infusion temperatures, the brew chamber 230 is optimally designed with a minimal specific heat capacity and thermal conductivity. Within the brewing chamber 230, the resulting solvent 203 contacts the solute 232 thereby creating a solution 204.

[0048] Operably connected to brewing chamber 230 is a SPMS 240 which selectively modulates infusion pressure via the addition of flow resistance generated by at least one pressure regulation component, e.g., a valve 242. As the filter 233 and the solute 232 may create a resistance to flow, a pressure monitoring device 241 is inserted antecedent to the solute 232, the pressure monitoring device 241 operably connected to the solvent 203 to enable accurate infusion pressure measurement. In order to increase infusion pressure (i.e., infusion process pressure) greater than that provided by solute 232 and filter 233, the valve 242 may be selectively activated increasing solution 204 flow resistance thereby increasing infusion pressure. Once activated, the valve 242 may be selectively deactivated, decreasing flow resistance and thus infusion pressure.

[0049] As will be understood by those skilled in the art, in order to control the infusion pressure in accordance with the present invention, the valve 242 is of a class that is not activated based on a defined or determined pressure differential across the valve 242, e.g., blowoff valve. Said another way, the valve 242 is such that the flow of the solvent through the solute is not contingent on a pressure differential across the pressure regulation component. Rather, it is activated or utilized to dictate the infusion pressure independent of pressure differential across itself. As such, the at least one pressure regulation component 242 is operably unaffected by a pressure differential across the at least one pressure regulation component during the infusion process. Any other known infusion systems that may utilize a valve downstream, are solely utilizing this valve 242 as a means to relieve pressure in the lines, thereby are always operably affected by a pressure differential across itself. Therefore, the present invention provides a user the advantage of dictating the infusion pressure independent of releasing the infused solution and controlling other system parameters.

[0050] In one embodiment, the pressure regulation component, e.g., valve 242, may be a needle valve. In other embodiments, the valve 242 may include a butterfly valve, a globe valve, a pinch valve, or any other flow impeding device capable of regulating pressure within brewing chamber 230. Ideal valves are impervious to particulate matter, oils, and other dissolved solids that may exist in infused solution, possess a minimal internal volume, are readily cleaned, and possess a minimal thermal conductivity and specific heat capacity. In practice, the pressure monitoring device 241 is used to monitor the infusion pressure, which, in turn, modulates the valve 242 to adjust infusion pressure. The SPMS 240 may be connected to a control system 280 which may modulate the valve 242 based on inputs from the pressure monitoring device 241 to achieve a

desired infusion pressure. Operably connected to the SPMS 240 is solution receptacle 250 which receives the solution 204 once it exits beverage brewing system 200.

[0051] As will be commonly understood, the brewing system 200 may be reconfigured such that SFMS 210 and STMS 220 are reversed such that solvents 201, 202 initially flow into STMS 220 where they are heated to the appropriate temperature, before subsequently entering the SFMS 210, and then flowing into brewing/infusion chamber 230.

[0052] According to another embodiment of the present invention, the control system 280 is used to independently and automatically modify flow rate, temperature, and pressure of the infusion. The control system 280 modifies flow rate of solvents 201, 202 by accordingly adjusting the SFMS 210. Additionally, the control system 280 modulates the solvent temperature through modulation of STMS 220. Furthermore, the control system 280 adjusts pressure of the infusion by adjusting SPMS 240. For example, during an infusion process, the control system 280 may selectively modify one or more of the aforementioned infusion parameters in accordance with user's desires. This dynamic modification may be utilized to modify chemicals and/or dissolved solids infused into the resulting solution producing a preferred beverage by the user or a consumer. The parameters required to produce said preferred beverage may be stored as programs or brewing formulas in control system 280 and recalled as desired to reproduce and replicate the preferred beverage formula. As such, the infused beverage formulate may be any recipe or formulation made up of infusion process parameters.

[0053] With reference now to FIG. 3, another schematic diagram is shown depicting a beverage brewing system 300 in accordance with an alternate embodiment of present invention. The beverage brewing system 300 is adapted to enable the brewing system to produce infused

beverages while also producing steam for frothing beverages and enabling the selective dispensing of thermally modulated solvent without its passage through the brewing chamber.

[0054] As shown, the solvent 301 is pumped by SFMS 310, which may include solvent pumps 311, 312, (operable equivalents of solvent pump 211 and 212) and is in fluid communication with the STMS 320. STMS 320 in the present embodiment is configured to selectively thermally modulate one of the solvent flows from the SFMS 310 or other solvent sources, i.e., a boiler. As will be obvious to those skilled in the art, thermal modulation of one solvent dictates that the minimum temperature for an infusion will be that of solvent 301. The STMS 320 is operable to selectively heat the solvent 301 pumped from solvent pumps 311, 312 through the use of a heat exchanger 323. The heat exchanger 323 may be contained within a steam boiler 322 which is heated by a heating element 321 and supplied solvent from a boiler solvent supply line 324.

[0055] A solvent recirculation system 326 is preferably in fluid connection with the heat exchanger 323, such that it is connected downstream and upstream the steam boiler 322. The solvent recirculation system 326 is operable to selectively recirculate the thermally modulated solvent 301 in order to maintain an optimal temperature. A solvent recirculation pump 327 may also be utilized to aid in the recirculation of the solvent 301. The temperature of the solvent 301 may be monitored by a temperature measuring device 325. The temperature measuring device 325 may be communicatively coupled to the recirculation pump 327, through the use of a controller 380 or other means, to modulate its performance and maintain a desired temperature and/or a uniform temperature within the solvent conduits. In other embodiments, the temperature measuring device 325 may also be communicatively coupled to a valve downstream of the steam boiler that is operable to inhibit the flow of the solvent until a desired temperature is reached.

[0056] The system 300 may also utilize a steam dispensing system 370 that is in fluid communication with steam boiler 322, through use of one or more conduits, and is preferably configured to facilitate in dispensing steam 371. Dispensing of said steam 371 is controlled by a steam valve 372, which is also in fluid communication with the steam boiler 322 and operable to control the flow of the steam 371. The steam dispensing system 370 may also include a steam dispensing nozzle 373 that may be uniquely adapted to dispense steam 371 in a manner which is optimized for the frothing of beverages. As will be obvious to those skilled in the art, the steam boiler 322 is configured to supply steam 371 at a pressure controlled by a pressure switch or alternate equivalent (not shown). The steam boiler 322 may also be configured to maintain a sufficient volume solvent level through the use of a selectively operable fill valve and fluid level switches (not shown).

[0057] In an operable equivalent manner to the beverage brewing system 200 depicted in FIG. 2, the thermally modulated solvent 301 pumped by solvent pump 312 may be mixed with the solvent 301 pumped by the solvent pump 311 which has not been appreciably thermally modulated and thus is of a different temperature thereby creating a resulting solvent 301a of a resulting temperature. Depending on the desired temperature and flow rate, the SFMS pumps solvent 301 based on solvent temperatures measured by temperature measuring devices 325 and 325a. The system 300 may also include a temperature measuring device 325b that measures the temperature of the resulting solvent 301a. In one embodiment, the temperature measuring device 325b may provide feedback to a controller 380 that may modify performance of SFMS to ensure the resulting solvent 301a is maintained at the desired temperature. In other embodiments, the temperature measuring device 325b may be communicatively coupled to the heating element 321 or other system 300 components to operably modulate the resulting solvent 301a to a desired temperature.

[0058] Flow of the resulting solvent 301a to the brew chamber 330 is preferably controlled by a valve 328 that is operably configured to selectively prevent or inhibit the flow of the resulting solvent 301a, facilitate flow of resulting solvent 301a to the brew chamber 330, facilitate flow of the resulting solvent 301a to an external non-brew chamber location, and/or facilitate flow to a drain (not shown). The valve 328 may be manually operated or automatically operated by a controller 380. In practice, when brewing system 300 is in its default state, the valve 328 is closed thereby preventing or otherwise inhibiting fluid flow. The active state of the system 300 may include, but is not necessarily limited to, when the user desires to dispense a specific temperature and/or volume of resulting solvent 301a without passing the solvent 301a through the brew chamber 330 or desires to pass the solvent 301a through the brewing chamber. Therefore, the active state may include modifying the valve 328 such that the solvent 301a is directed to flow out a dispensing spout 329 with the SFMS and the STMS providing the solvent 301a at the desired temperature, volume, and flow rate. Said independent control of system components is what advantageously gives the user optimum control not available with prior art brewing systems.

[0059] Alternately, the valve 328 may direct the solvent 301a to a drain (not shown), which will enable the flushing of solvent 301a or any gas within the system. The valve 328 may also be utilized to ensure solvent 301a is at a desired temperature prior to being directed to the brew chamber 330 for an infusion or dispensing spout 329 for dispensing. This is accomplished by a valve 328 directing solvent 301a to a drain until temperature measuring device 325b indicates that solvent 301a is the proper temperature. In other embodiments, the valve 328 may recirculate the solvent 301a to the steam boiler 322 or the recirculation pump 327. When the solvent 301a is at the proper temperature then the valve 328 may switch to direct solvent 301a to the infusion chamber 330 or dispensing spout 329.

[0060] When creating an infusion, i.e., the result of an infusion process, the solvent 301a passes through the valve 328 and is directed to the brewing chamber 330. The brewing chamber may be composed of a chamber housing 331 that is preferably configured to readily facilitate the removal and replacement of a filter system 333. In one embodiment, the chamber housing 331 is of a size slightly larger in dimensions than the filter system 333 to facilitate a taut and relatively unyielding coupling with one another. In an alternate embodiment, the internal volume of chamber housing 331 is roughly equivalent to that of solute 332 and filter system 333. In other embodiments, the coupling with the housing 331 and filter system 333 may have dimensional variance with one another. The filter system 333 may include a solute 332 that is placed in fluid communication with the solvent 301a to facilitate infusion, thereby creating a solution 301b (a solvent 301a/solute 332 mixture). In fluid communication with the brew chamber 330 is a SPMS 340, which is the operable equivalent to the aforementioned SPMS 240. The SPMS 340 may include a valve 342 and a pressure monitoring device 341, e.g., a pump or valve. The valve 342 is configured to selectively resist flow of the solution 301b out of the brew chamber 330, advantageously modulating the infusion pressure within brew chamber 330. After the solution 301b passes through the valve 342 it exits the brewing system 300 to a removable cup 350 or an operable equivalent.

[0061] As will be obvious to those skilled in the art, the configuration of brewing system 300 should take into account potential cavitations within said brewing system 300 which may diminish the performance of said brewing system. Thus it may be advantageous to configure said system 300 such that the solvent 301a and 301 are under constant positive pressure.

[0062] The control system 380, which may be an operable equivalent to the control system 280 described and shown with reference to FIG. 2, is adapted to the brewing system 300 to be communicatively coupled to one or more devices in the system 300. The control system 380 may

modulate the performance of the SFMS 310, the STMS 320, and the SPMS 340 to ensure that the user's specifications for an extraction manifested during the infusion or dispensing of the solvent 301a.

[0063] One benefit of the disclosed beverage brewing system 300 is the ability to substantially separate the brewing chamber 330 from the STMS 320 and SPMS 340 without adverse effects on infused solution quality. A system of the aforementioned configuration is preferably configured such that solvent 301a is produced proximate brewing chamber 330 thereby ensuring an accurate infusion temperature regardless of brew chamber 330 to STMS 320 and SPMS 340 separation distance. Said separation preferably enables the minimization of the overall appearance of the beverage brewing system 300 to the viewing public, including the user. In practice, one methodology of minimizing brewing system appearance is positioning the STMS 320 and the SFMS 310 out of the user's view with the SPMS and brewing chamber 330 visible. Figure 4 depicts an exemplary embodiment of the visible portion of the aforementioned visually minimized system.

[0064] FIG. 4 depicts a visible brewing component 400 that may include a mechanical support 401 with a platform mounting plate 402. The visible brewing component 400 may include a brew chamber 403, which is an operable equivalent of the brew chamber 330 described and shown in reference to FIG. 3. The component 400 also includes a SPMS 410, which is also an operable equivalent of the SPMS 340 described and shown in reference to FIG. 3. The component 400 may also include a steam dispensing nozzle 451 and a dispensing spout 450 which are also operable equivalents to those comparable components described and shown in reference to FIG. 3.

[0065] The component 400, which may also be referred to as a body, may also include a user interface 421 housed in a user interface housing 420 that is preferably made in operable attachment to mechanical support 401 by hinge support 422 which may be configured to facilitate rotation about said hinge of an interface housing 420 indicated by a directional indicator 431 or reverse rotation indicated by a directional indicator 432. An interface housing control lever 430 may be attached to interface housing 420 thereby aiding in the selective movement. A sensor means (not shown) may be utilized to detect motion of interface housing 420 about hinge support 422 which may be utilized to selectively activate components of said beverage brewing system. An exemplary use of said switching means is the actuation of steam dispensing valve (not shown) facilitating the dispensing of steam from steam dispensing nozzle 451. Said dispensing may be initiated by movement in one direction resulting in manually controlled steam dispensing and movement in the other direction initiating an automated dispensing of steam that may be controlled with respect to temperature rise of a frothed beverage.

[0066] The brew chamber 403 is configured to contain a filter system (not shown) within a removable filter housing 461, both of which may be operable in an equivalent above-described manner. The filter housing 461 preferably has a filter system handle 460 attached thereto, which is configured to aid in its removal and replacement. In operable engagement with removable filter housing 461 is the SPMS 410 which is configured to modulate infusion pressure as described above.

[0067] Figure 5 depicts a process flow diagram for the present invention. The process of brew formula creation begins in step 500. Step 501 is the initialization of the brew formula creation mechanism. In this step the user will access software or alternate means of creating said brew formula. In step 502, a formula name is created, preferably, said name is unique, distinctive and

indicative of the solute to be used to create said brew. Steps 503-507 specify the brew parameters. In step 503 the temperature with respect to time is preferably specified. In step 504, the pressure is preferably dictated with respect to time, and in step 505 the volume is specified with respect to time. As will be understood by those skilled in the art, the aforementioned brew parameters may be specified with respect to other parameters as long as the parameters of temperature, solution flow rate and infusion pressure are specified. Additionally, said brew formula may include step 506, the specification of filter area, and step 507, the specification of solute parameters. Said solute parameters may include average solute particle size, compaction and any other pertinent information which may be useful to an operator when executing the brew formula. In step 508, the aforementioned parameters are stored in a storage media known as a database. The process of brew formula creation is complete at step 508a.

[0068] With reference now to FIG. 6, a process flow diagram depicting an exemplary process of operating the beverage brewing system is shown. Electing to brew a beverage, a user starts at step 510. In step 509, a brewing formula is selected by the user. During step 511a solute is modified to the appropriate size based by a solute modification system according to a user's desires and/or information provided from a communicatively coupled control system 160. During step 511 the solute is inserted in brewing/infusion chamber 130. Subsequently, brew formula execution is initiated in step 512. In step 514, a signal is sent to the control system 160 of the brewing device 513 which is the operable equivalent to brewing device 100. In Step 515, the control system 160 causes solvent to enter brewing device 513. During step 516, the SFMS 110, 210, 310, receives a control signal from control system 160, causing flow of solvent at a rate dictated by the chosen brew formula. During step 517, the STMS 120 receives a control signal from the control system 160 and thermally modulates the solvent in accordance with the brew formula. The infusion of

solvent and solute within brew chamber 130 occurs during step 518. During step 519, the infused solution/beverage exits from said brewing chamber 130. During step 520, the solution traverses through the SPMS 140, which receives a control signal from the control system 160, resulting in pressure regulation during the infusion process. During step 521, solution exits brewing device 513.

[0069] As will be obvious to those skilled in the art, steps 516, 517, 518, 519, 520 may all occur concurrently. At the conclusion of step 521, the removal of used solute from brewing chamber 130, occurs during step 522. After solute removal, the process concludes at step 523.

[0070] The SFMS 110, 210, 310 is a system of moving fluid that provides accurate, metered, variable flow of solvent through the brewing system. Applicable systems may include a pumping means capable of providing flow at pressures and rates equal to or greater than those required by the brewer. Exemplary pumps are preferably volumetric in operation however, gear pumps, piston pumps, rotary vane pumps or any others that satisfy the aforementioned criteria. Pumping means is preferably in operable connection with a solvent flow meter(s) or an equivalent mechanism that acts as a feedback mechanism ensuring the desired flow rate and volume is dispensed. Preferably, pumping is performed by a pump with 100% volumetric efficiency driven by a prime mover with feedback and/or position control such as a servo or stepper motors whereby the use of a flow meter is not required to achieve accurate flow rates. Additionally, the pumping means is capable of modulating and maintaining the required fluid flow rate during the brewing process regardless of system pressure. SFMS may be a self-controlled system or coupled to an external system controller that monitors and modulates performance.

[0071] The STMS, 120, 220, 320 is a system for providing rapidly variable, accurate and precise temperature solvent to the brewing chamber. Exemplary systems include instant or tankless solvent heating systems and the use of thermostatic mixing valves / systems. Regardless of the system utilized, an ideal STMS is capable of providing variations in temperature that are equal to or greater than those desired by the operator. Ideal STMS have the ability to provide solvent temperature modulations at a rate of at least $10^{\circ}\text{C} / \text{sec}$ or 10°C/mL flow that contacts solute and provide a minimum accuracy of $\pm 3^{\circ}\text{C}$ during the infusion. An optimal system takes into account specific heat capacity and thermal conductivity of solvent conduits in operable connection to solute material when delivering solvent.

[0072] An ideal brewing chamber 130, 230, 330 is a system that is operably connected to the SFMS, STMS, and SPMS. It includes a chamber configured to facilitate contact of solution and solute creating an infused solution, selectively contain solute media, and allow said infused solution to exit said brew chamber. An ideal brewing chamber has a minimal specific heat capacity and thermal conductivity such that infusion temperature can be rapidly modified. Preferably it is configured such that the material contacting solvent has a thermal conductivity at or below $1\text{W} / \text{m}^{\circ}\text{K}$, exemplary materials include the class of polymers of Polyetherimide (PEI) and polyetheretherketone (PEEK). Additionally, said brewing chamber is capable of withstanding pressures greater than those provided by the brewing system.

[0073] Operably connected to brewing chamber is a SPMS, 140, 240, 340, that modulates the pressure within said brewing chamber by modifying infused solution flow resistance. The SPMS may include a pressure measuring device operably connected to solute within brew chamber and a valve that is capable of modulating infused solution flow resistance thus increasing pressure within brewing chamber. Exemplary valves include pressure regulators, needle, butterfly, globe

and pinch valves or any other flow regulating device capable of regulating pressure within brew chamber. Ideal valves are impervious to particulate matter, oils, and other dissolved solids that may exist in infused solution. Furthermore, SPMS optimally contains a minimal internal volume and adjusts pressure within the chamber to an accuracy of at least ± 0.5 Bar and a minimum rate of pressure change greater than 1 Bar/sec. Additionally the internal volume should be readily cleaned.

[0074] An electronic control system 160, 280, 380, is ideally used to selectively modulate and monitor performance of SFMS, STMS, and SPMS during the infusion process. Additionally, the control system is able to be pre-programmed with brewing “formulas” that may be tailored to different personal preferences and solute. These formulas may be recalled when desired thus minimizing the amount of labor, skill and time required to reproduce brewing results. The control system may include networking capabilities such as being connected to the Internet, thereby enabling remote system monitoring and transmission of brewing “formulas” to the brewing system. Preferably, the said control system will be capable of processing a multitude of user imputed variables to create an executable extraction. Said variables include pressure, flow rate, temperature, overall time, and dispensed volume.

[0075] As will be obvious to those skilled in the art, the variables of flow rate, infusion time and dispensed infusion volume are not all independent variables, thus, the control system is preferably capable of affording the user the ability to select the two independent variables desired. For instance, the user may elect to dictate infusion flow rate with respect to infusion time thus making dispensed volume the dependent variable. Alternately, the user may elect to dictate dispensed volume with respect to time making flow rate a dependent variable determined by the control system.

[0076] Furthermore, the said control system is preferably capable of enabling the user to dynamically (i.e., during the brewing process) modify all the brew variables with respect to the other variables. For instance, the user may decide to dictate the variable of temperature with respect to pressure, time, or volume. Likewise, the pressure may be dictated with respect to time or volume or temperature. However, for the sake of simplicity, it is preferable for all the variables to be dictated with respect to the same parameter of either time or dispensed volume with absolute limits and rates of change governed by the capabilities of the STMS, SFMS, brew chamber, and SPMS. In the event that the feedback mechanisms indicate that the actual infusion deviated from any of the set values of the brew formula, an error message is preferably generated communicating the error to the user whereby the user may modify the brew formula or modify solute and or filter media to enable the brewing system to successfully execute the brew formula.

[0077] In the event that a brew formula is generated for a set volume and the user desires to increase the volume of solution brewed while maintaining the effective brew parameters, the control system is preferably capable of taking the original brew formula and modulating the dispensed flow rate in a temporary fashion thus, keeping total time constant, and also recommending an increase in filter media size to ensure the increased infusion volume is of consistent flavor with the original brew formula.

[0078] Benefits of the aforementioned system may be derived from inclusion of less than all three solution control systems: SFMS, STMS and SPMS. For instance a beverage brewing system may include a STMS and SFMS or an alternate configuration may include a SFMS and SPMS operably connected to a brewing chamber.

[0079] In this embodiment, flow rate of solvent is dictated and modified by the SFMS, temperature of solvent is modulated and controlled by the STMS and the pressure within the brewing chamber is modified by the SPMS. All of the aforementioned brewing variables are able to be independently varied by the user during the infusion. Additionally, due to the complexity of the aforementioned systems, it may be found advantageous to utilize a programmable controller to control and modify the aforementioned brewing variables of said brewing system.

[0080] While the disclosed beverage brewing/infusion system mitigates the impact effect variances in solute size and solute compaction have on the infusion flavor, it may be found useful to utilize data recorded by the control system to modify solute parameters such as solute size or solute compaction. This may be accomplished through a solute modification system, which may include a solute grinder and/or compaction tool operably connected with the brewing chamber where the solute is disposed. In one exemplary system, a control system, as described above, is communicatively coupled to a solute modification system, specifically a solute grinder, whereby sensor data from an infusion process may be utilized to modify performance of said grinder to improve the performance of the total system. One such example is utilizing pressure sensor data during an infusion process to modify the performance of a grinder to produce smaller or larger solute in order to ensure a consistent beverage flavor.

[0081] For instance, if a beverage is brewed/infused utilizing a formula and the SPMS 140, 240, 340 is unable to produce the pressure profile specified by the formula or SPMS requires excessive or inordinate levels of flow modulation, the control system may communicate with a solute grinder causing it to reduce or increase or decrease the size of solute disposed within the brew chamber. As will be obvious, assuming the same level of solute compaction and solute mass, a decrease in average solute particle size will result in higher solute resistance and an increase in average solute

particle size will result in decreased resistance enabling lower infusion pressures. Likewise, the system may be configured to utilize control system data to modify solute compaction rather than average solute particle size.

What is claimed is:

CLAIMS

1. An infused beverage brewing assembly comprising:

a solvent flow management system with a first solvent pump fluidly coupled to a first solvent conduit and operably configured to receive a solvent and induce the flow of the solvent therethrough and a second solvent pump fluidly coupled to a second solvent conduit and operably configured to receive another solvent, separate from the solvent operably configured to be received within the first solvent pump, and induce the flow of the another solvent therethrough;

a solvent temperature modulation system with at least one thermal modulator in fluid communication with the first solvent conduit, the first and second solvent conduits directly and fluidly coupled together to form a conduit joint downstream of the thermal modulator to form a resulting solvent conduit with a resulting solvent disposed therein at a resulting temperature and the at least one thermal modulator operably configured to thermally modulate the solvent disposed in the first solvent conduit to a raised temperature higher and different than the resulting temperature; and

a brewing chamber in fluid communication with the resulting solvent conduit and for housing a solute disposed to receive the resulting solvent to produce an infused beverage;

an outlet for discharging the infused beverage; and

an electronic controller communicatively coupled to the first and second solvent pumps and the at least one thermal modulator, and operably configured to modulate the flow of the solvent through the first solvent pump and the at least one thermal modulator and the another solvent through the second solvent pump.

2. The infused beverage brewing assembly according to claim 1, further comprising:

at least one solvent flow meter communicatively coupled to the first and second solvent pumps.

3. The infused beverage brewing assembly according to claim 2, wherein:

the electronic controller is communicatively coupled to the at least one solvent flow meter and operably configured to receive an electronic signal from the at least one solvent flow meter indicative of a flow rate and to modulate the flow of the solvent through at least one of the first solvent pump and the another solvent through the second solvent pump based on the flow rate ascertainable from the at least one solvent flow meter.

4. The infused beverage brewing assembly according to claim 3, wherein:

the electronic controller is operably configured to dynamically modulate the flow of the solvent through at least one of the first solvent pump and the another solvent through the second solvent pump based on the flow rate ascertainable from the at least one solvent flow meter.

5. The infused beverage brewing assembly according to claim 1, wherein the solvent temperature modulation system further comprises:

a thermal modulator in fluid communication with the first solvent conduit and a thermal modulator in fluid communication with the second solvent conduit, each of the thermal modulators operably configured to thermally modulate the solvent and the another solvent disposed within the first and second solvent conduits, respectively, to a raised temperature higher and different than a temperature of the solvent and the another solvent upstream of the thermal modulators.

6. The infused beverage brewing assembly according to claim 5, wherein:

the electronic controller is communicatively coupled to the thermal modulator in fluid communication with the first solvent conduit and the thermal modulator in fluid communication with the second solvent conduit and the electronic controller is operably configured to dynamically

modulate the temperature of the solvent in the first solvent conduit and the another solvent in the second solvent conduit.

7. The infused beverage brewing assembly according to claim 6, further comprising:

at least one solvent flow meter communicatively coupled to the first and second solvent pumps.

8. The infused beverage brewing assembly according to claim 7, wherein:

the electronic controller is communicatively coupled to the at least one solvent flow meter and operably configured to receive an electronic signal from the at least one solvent flow meter indicative of a flow rate and to modulate the flow of the solvent through at least one of the first solvent pump and the another solvent through the second solvent pump based on the flow rate ascertainable from the at least one solvent flow meter.

9. The infused beverage brewing assembly according to claim 8, further comprising:

a temperature measuring device communicatively coupled to the electronic controller and fluidly coupled to the resulting solvent conduit, the electronic controller operably configured to dynamically thermally modulate, through at least one of the thermal modulators, at least one of the solvent and the another solvent disposed within the first and second solvent conduits, respectively.

10. The infused beverage brewing assembly according to claim 1, further comprising:

a temperature measuring device communicatively coupled to the electronic controller and fluidly coupled to the resulting solvent conduit, the electronic controller operably configured to

dynamically thermally modulate, through the at least one thermal modulator, the solvent disposed within the first solvent conduit.

11. The infused beverage brewing assembly according to claim 10, wherein:

the electronic controller is operably configured to receive a desired temperature for the resulting temperature in the brewing chamber and a desired flow rate for the resulting solvent in the brewing chamber.

12. The infused beverage brewing assembly according to claim 11, wherein:

the electronic controller operably configured to dynamically thermally modulate, through the at least one thermal modulator, the solvent disposed within the first solvent conduit until the resulting temperature in the brewing chamber reaches the desired temperature for the resulting temperature in the brewing chamber.

DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES

ABSTRACT OF THE DISCLOSURE

An infused beverage brewing assembly having a solvent flow management system (SFMS) operably configured to receive a solvent and induce a flow of the solvent through a first solvent conduit and a second solvent conduit, a solvent temperature modulation system (STMS) operably configured to thermally modulate a solvent within the first solvent conduit to join with a solvent in the second solvent conduit to form a resulting solvent conduit with a resulting solvent. The assembly has a brewing chamber in fluid communication with the resulting solvent conduit and for housing a solute disposed to receive the resulting solvent to produce an infused beverage, an outlet for discharging the infused beverage based on the desired resulting solvent flow and temperature desired within the brewing chamber.

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DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES

First Named Inventor/Applicant Name:

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Filer:

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Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY FILING FEE (ELECTRONIC FILING)	4011	1	75	75
UTILITY SEARCH FEE	2111	1	330	330
UTILITY EXAMINATION FEE	2311	1	380	380

Pages:

Claims:

Miscellaneous-Filing:

Petition:

Patent-Appeals-and-Interference:

Decent Espresso International Ltd., Exhibit 1013

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				785

Electronic Acknowledgement Receipt

EFS ID:	40555488
Application Number:	17020799
International Application Number:	
Confirmation Number:	8811
Title of Invention:	DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES
First Named Inventor/Applicant Name:	Gideon Duvall
Customer Number:	131368
Filer:	Gideon Williams Duvall
Filer Authorized By:	
Attorney Docket Number:	DUVALL_20_DIV_1
Receipt Date:	14-SEP-2020
Filing Date:	
Time Stamp:	23:49:45
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$785
RAM confirmation Number	E20209DN51183864
Deposit Account	
Authorized User	

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

Decent Espresso International Ltd., Exhibit 1013

Page 1013-42

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	WebADS.pdf	131105	no	8
			00fe738427023e76de51ec4e9e75d4dca56c4ef0		

Warnings:

Information:

2	Oath or Declaration filed	DUVALL_20_DIV1_OATH.PDF	202191	no	2
			541ef65b8fbec69f8d319e2a8ffa82e0307df67		

Warnings:

Information:

3	Drawings-only black and white line drawings	DUVALL_20_DIV1_Drawings.PDF	167665	no	6
			0f40c067a8055ef8102fce96c57adc12e788a157		

Warnings:

Information:

4	Transmittal of New Application	DUVALL_20_DIV1_TRANSMITTAL.PDF	280019	no	2
			6f72ab16ab5fc6c1419d5740333421ed7887b06a		

Warnings:

Information:

5		DUVALL_20_DIV1_Spec.pdf	324672	yes	37
			0f30ff238bce13ddff1b098fc83dfeaaafb4aedf6		

	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	32	
	Claims		33	36	
	Abstract		37	37	

Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	34730	no	2
			e0415d832e1af0e0b898071df6adc3d3a1c66cc3		
Warnings:					
Information:					
Total Files Size (in bytes):			1140382		
<p>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.</p> <p><u>New Applications Under 35 U.S.C. 111</u> 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.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> 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.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> 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.</p>					

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	DUVALL_20_DIV_1
		Application Number	
Title of Invention	DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES		
<p>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.</p> <p>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.</p>			

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				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Gideon		Duvall	
Residence Information (Select One)		☒ US Residency ☐ Non US Residency ☐ Active US Military Service		
City	Atlanta	State/Province	GA	Country of Residence ⁱ
				US
Mailing Address of Inventor:				
Address 1	930 Stallings Ave SE			
Address 2				
City	Atlanta	State/Province	GA	
Postal Code	30316	Country ⁱ	US	
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button. <div style="float: right; border: 1px solid black; padding: 2px 5px;">Add</div>				

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	131368
Email Address	gideon@duvallespresso.com <div style="float: right; border: 1px solid black; padding: 2px 5px;">Add Email</div> <div style="float: right; border: 1px solid black; padding: 2px 5px;">Remove Email</div>

Application Information:

Title of the Invention	DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES		
Attorney Docket Number	DUVALL_20_DIV_1	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	6	Suggested Figure for Publication (if any)	2

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	DUVALL_20_DIV_1
		Application Number	
Title of Invention	DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES		

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		131368				
Prefix	Given Name	Middle Name	Family Name	Suffix	<input type="button" value="Remove"/>	
Registration Number						
Prefix	Given Name	Middle Name	Family Name	Suffix	<input type="button" value="Remove"/>	
Registration Number						
Additional Representative Information blocks may be generated within this form by selecting the Add button.						

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	DUVALL_20_DIV_1
		Application Number	
Title of Invention	DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES		

Domestic Benefit/National Stage Information:

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

When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status				Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
		16383607	2019-04-13		
Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16383607	Division of	15845946	2017-12-18	10258187	2019-04-16
Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15845946	Continuation of	14421362	2015-02-12	9867491	2018-01-16
Prior Application Status				Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
14421362	a 371 of international	PCT/US2013/055348	2013-08-16		
Prior Application Status		Pending		Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
PCT/US2013/055348	Claims benefit of provisional	61742688	2012-08-16		
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.					

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) 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).

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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	DUVALL_20_DIV_1
		Application Number	
Title of Invention	DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES		

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

☐	<p>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.</p> <p>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.</p>
--------------------------	---

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	DUVALL_20_DIV_1
		Application Number	
Title of Invention	DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES		

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	DUVALL_20_DIV_1
	Application Number	
Title of Invention	DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES	

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

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.

☐ 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. ☐

Prefix	Given Name	Middle Name	Family Name	Suffix

Mailing Address Information For Applicant:

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

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

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	DUVALL_20_DIV_1
		Application Number	
Title of Invention	DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES		

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.

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.							
If the Assignee or Non-Applicant Assignee is an Organization check here.				☐			
Prefix	Given Name	Middle Name	Family Name	Suffix			
Mailing Address Information For Assignee including Non-Applicant Assignee:							
Address 1							
Address 2							
City			State/Province				
Country i			Postal Code				
Phone Number			Fax Number				
Email Address							
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.							

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	DUVALL_20_DIV_1
		Application Number	
Title of Invention	DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES		

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	/Gideon Duvall/			Date (YYYY-MM-DD)	
First Name	Gideon	Last Name	Duvall	Registration Number	
Additional Signature may be generated within this form by selecting the Add button.					

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.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	Device and System for Brewing Infused Beverages
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As the below named inventor, I hereby declare that:

This declaration is directed to: ☒ The attached application, or
☐ United States application or PCT international application number _____
 filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Gideon Duvall Date (Optional) : 9/14/2020
 Signature: /Gideon Duvall/

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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.

Decent Espresso International Ltd., Exhibit 1013

Page 1013-53

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.

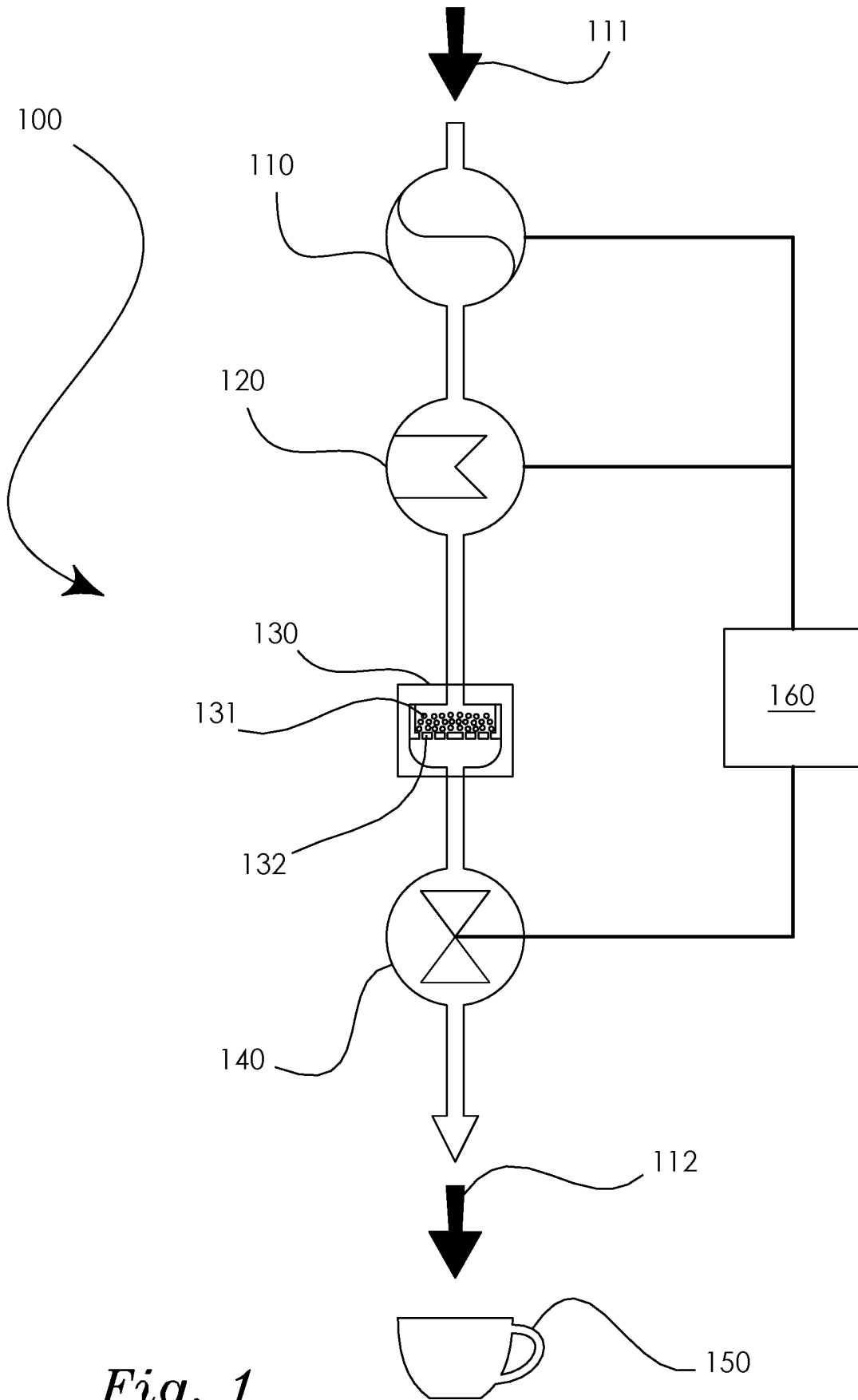


Fig. 1

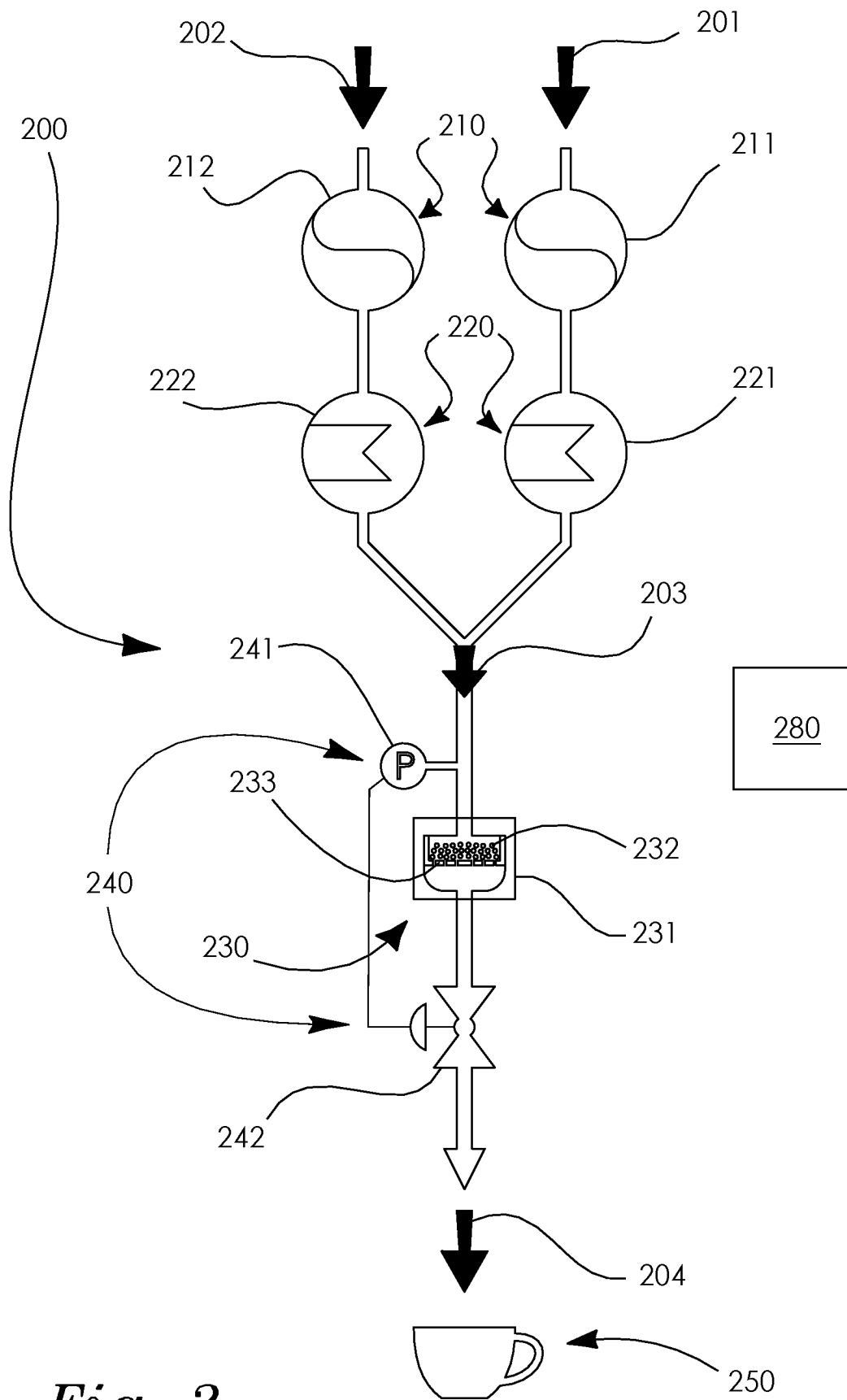


Fig. 2

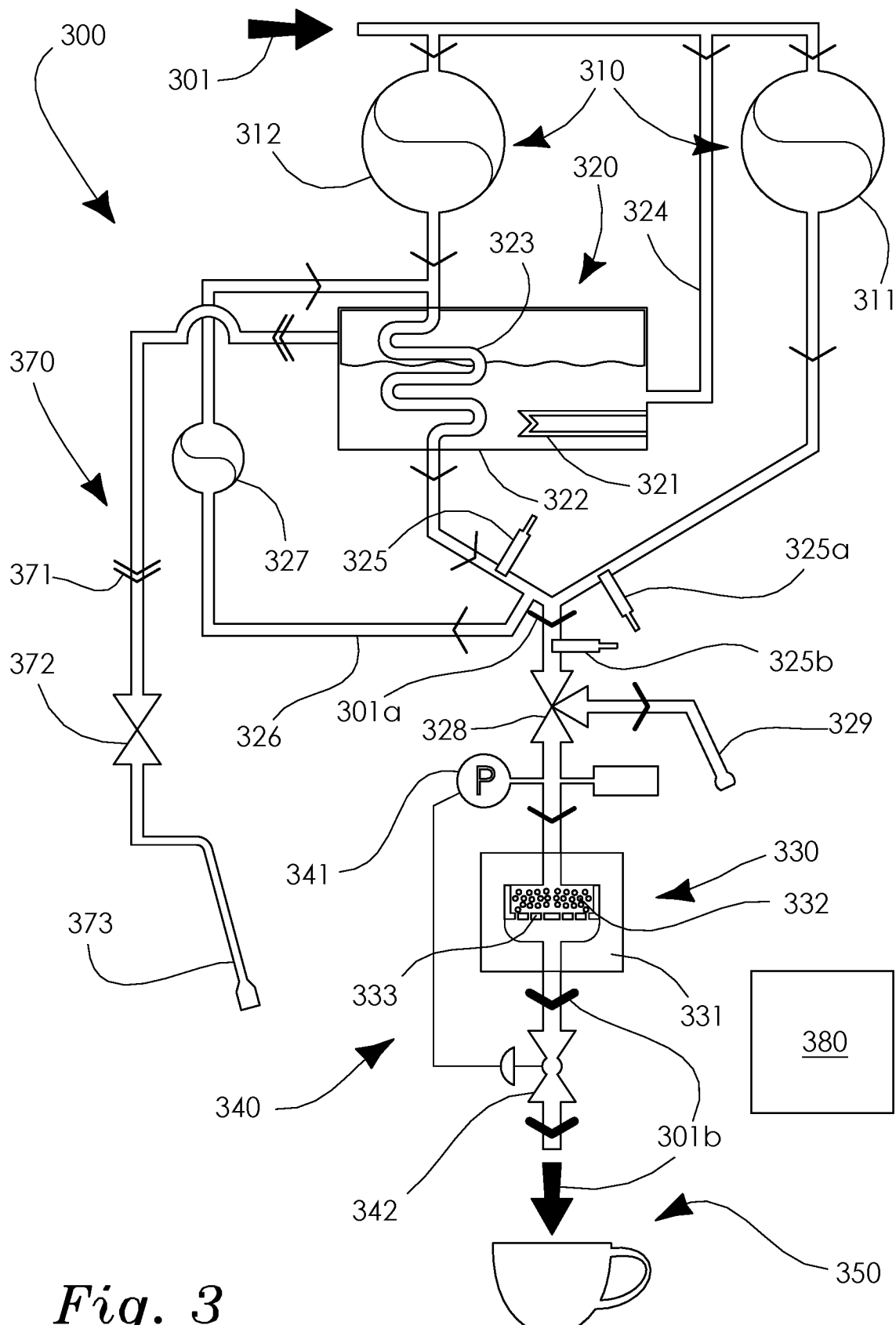


Fig. 3

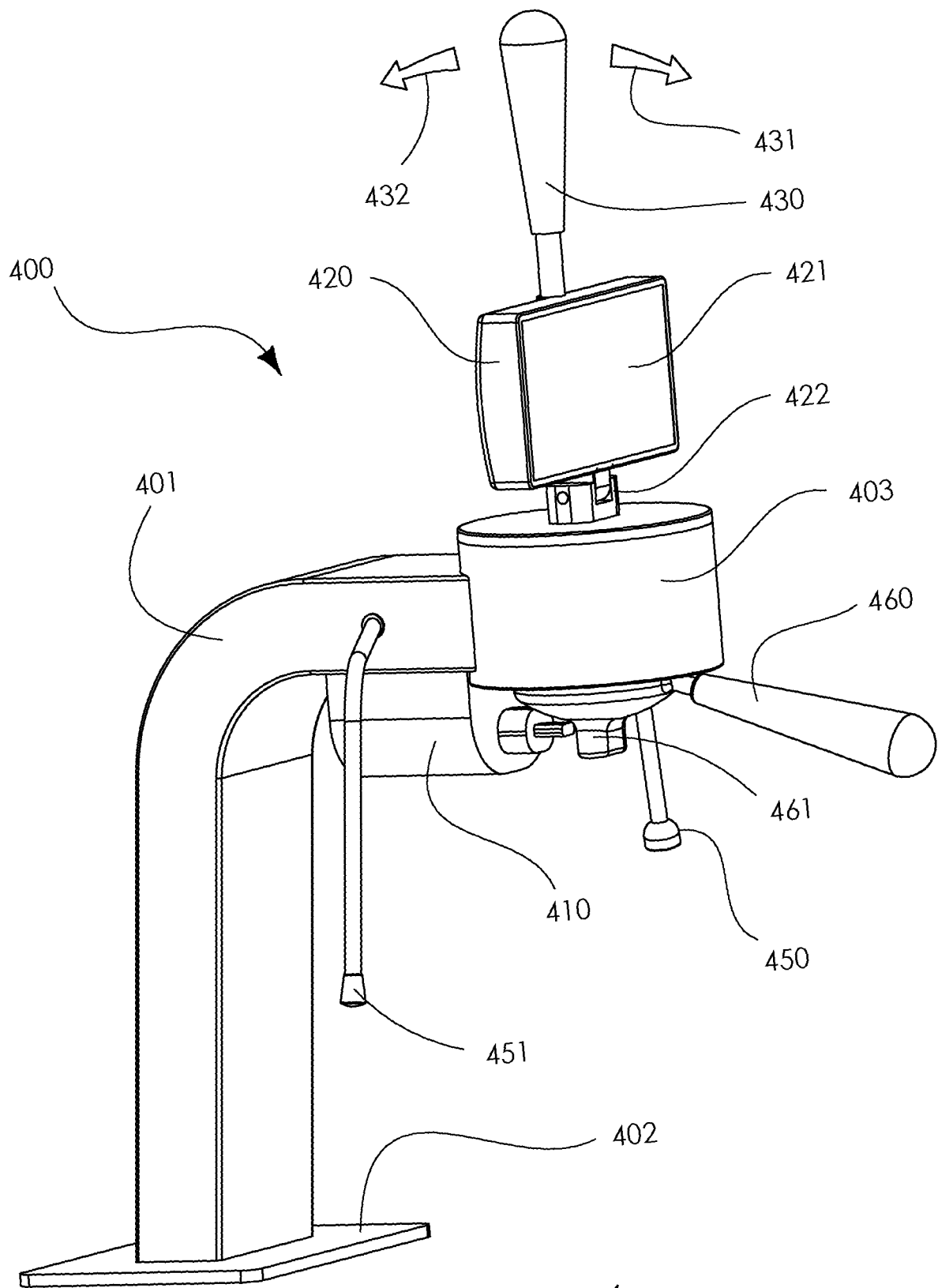


Fig. 4

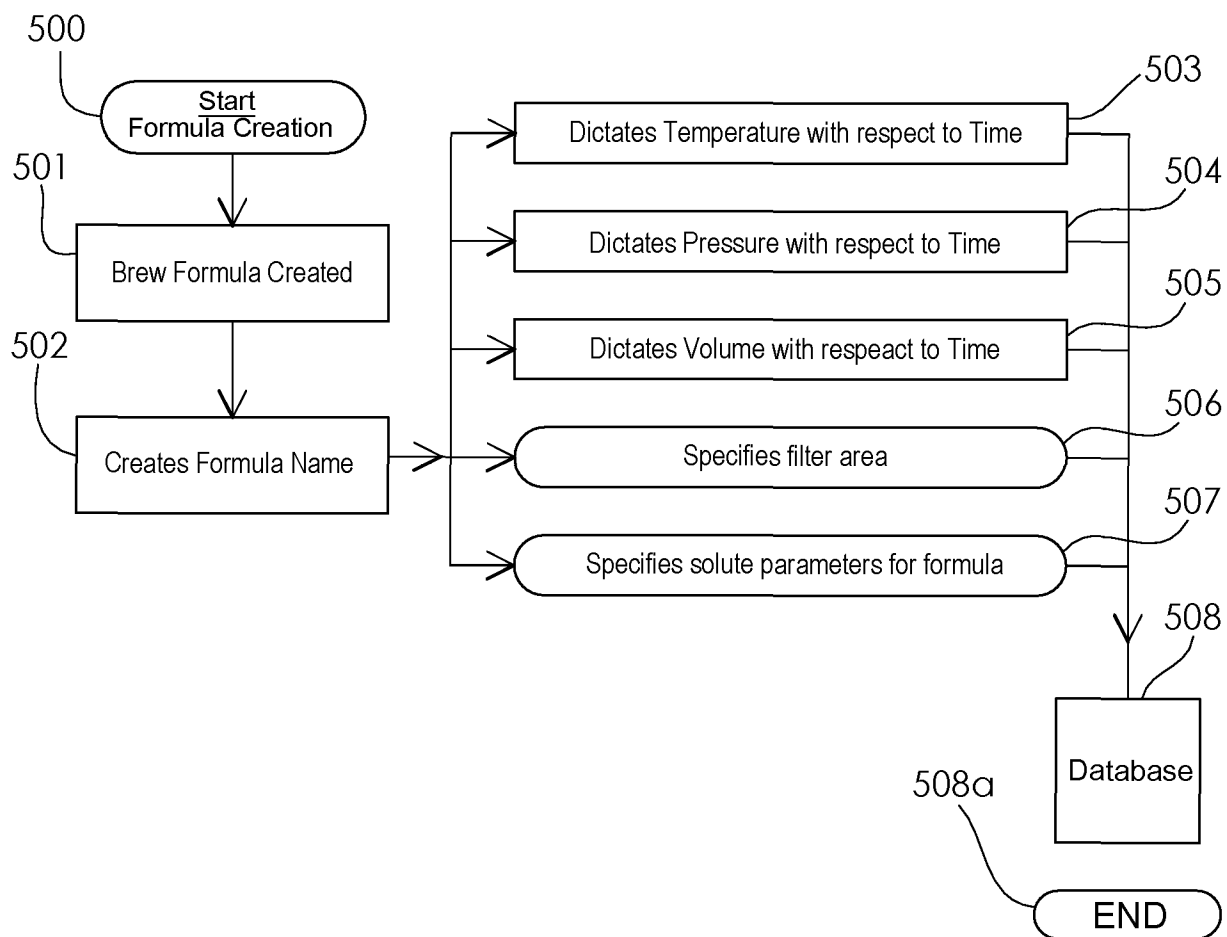


Fig. 5

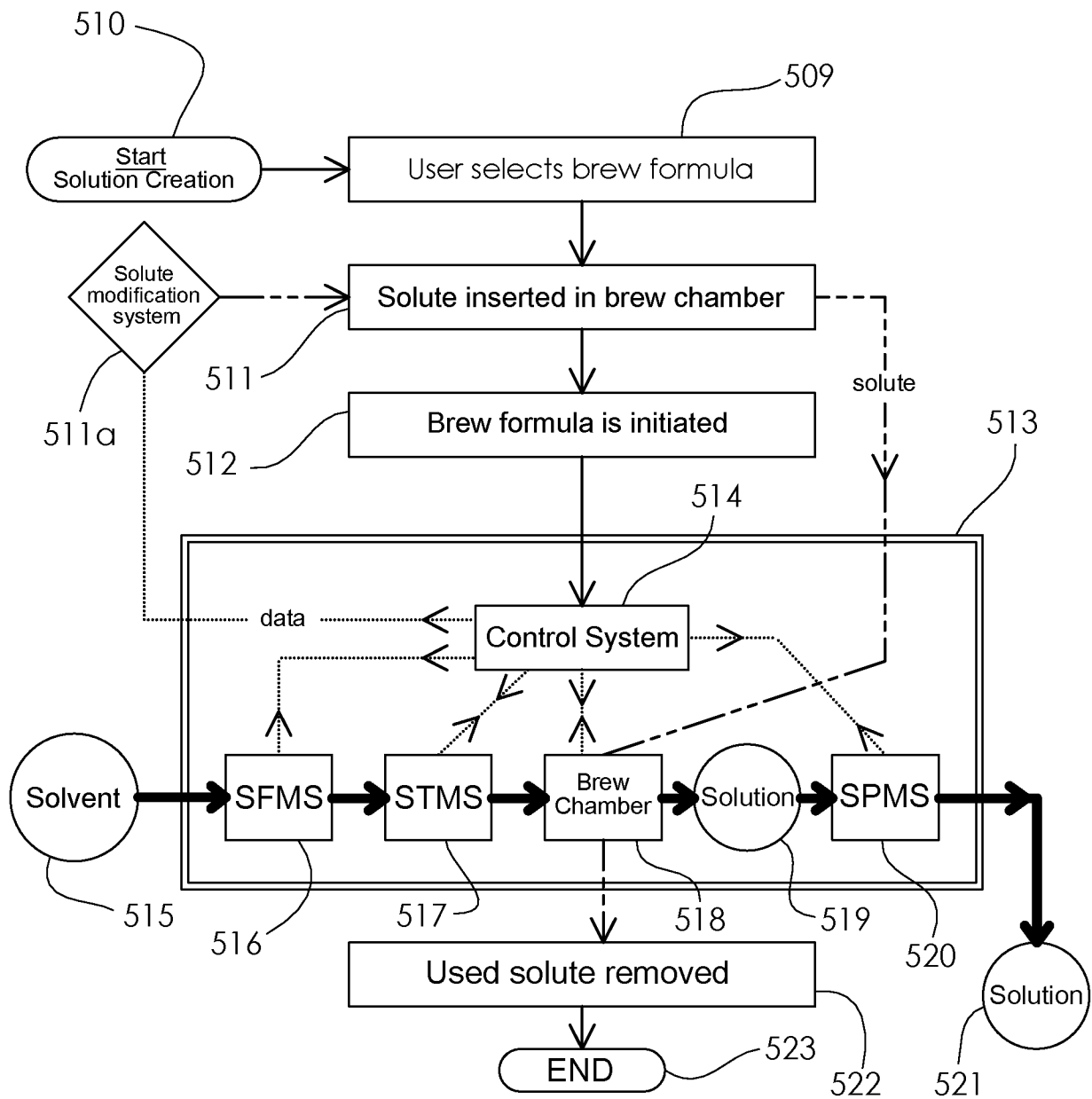


Fig. 6



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
17/020,799	09/14/2020	3761	785	DUVALL_20_DIV_1	12	1

CONFIRMATION NO. 8811

FILING RECEIPT

131368
Gideon Duvall
6850 North Grande Drive
Boca Raton, FL 33433



Date Mailed: 09/24/2020

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)

Gideon Duvall, Atlanta, GA;

Applicant(s)

Gideon Duvall, Atlanta, GA;

Power of Attorney: None

Domestic Applications for which benefit is claimed - None.

A proper domestic benefit claim must be provided in an Application Data Sheet in order to constitute a claim for domestic benefit. See 37 CFR 1.76 and 1.78.

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: 09/23/2020

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/020,799**

Projected Publication Date: 03/17/2022

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES

Preliminary Class

099

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.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 17/020,799				
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	75		N/A				
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	330		N/A				
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	380		N/A				
TOTAL CLAIMS (37 CFR 1.16(j))	12	minus 20 = *	x 50 =	0.00	OR					
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1	minus 3 = *	x 230 =	0.00						
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).			0.00						
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00						
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	785		TOTAL				
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	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	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
17/020,799	09/14/2020	Gideon Duvall	DUVALL_20_DIV_1

CONFIRMATION NO. 8811

IMPROPER CFR REQUEST



131368
Gideon Duvall
6850 North Grande Drive
Boca Raton, FL 33433

Date Mailed: 09/24/2020

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Continuity, Priority Claims, Petitions, and Non-Publication Requests

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- One or more of the benefit claims under 35 U.S.C. § 120 cannot be included on the Filing Receipt since applicant did not specify whether the application is a continuation, divisional or continuation-in-part of the prior application. Applicant must submit a new application data sheet (ADS) that sets forth the relationship, and the ADS must be accompanied by a petition under 37 CFR 1.78 if filed after the time period set forth in 37 CFR 1.78.

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

/vvan/

CORRECTED ADS FORM

Application Number	17020799
Title of Invention	DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES

Inventor Information

****If no data is shown, no data has been corrected****

	Data of Record	Updated Data
Order Number		
Name		

Residence Information

Residency		
City		
State		
Country of Residence		

Mailing Address of Inventor

Address 1		
Address 2		
City,State/Province, Postal Code		
Country		

Application Information

	Data of Record	Updated Data
Title of Invention	DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES	
Attorney Docket Number	DUVALL_20_DIV_1	
Entity Type	Small	

Domestic Benefit/National Stage Information

****If no data is shown, no data has been corrected****

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 this 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(a).

	Data of Record	Updated Data
Prior Application Status		<u>patented</u>
Application Number		<u>17/020,799</u>
Continuity Type		<u>DIV</u>
Prior Application Number		<u>16383607</u>
Filing Date (YYYY-MM-DD)		<u>2019-04-13</u>
Patent Number		<u>10,772,456</u>
Issue Date (YYYY-MM-DD)		<u>2020-09-15</u>

	Data of Record	Updated Data
Prior Application Status		<u>patented</u>
Application Number		<u>16383607</u>
Continuity Type		<u>DIV</u>
Prior Application Number		<u>15845946</u>
Filing Date (YYYY-MM-DD)		<u>2017-12-18</u>
Patent Number		<u>10258187</u>
Issue Date (YYYY-MM-DD)		<u>2019-04-16</u>

	Data of Record	Updated Data
Prior Application Status		<u>patented</u>
Application Number		<u>15845946</u>
Continuity Type		<u>CON</u>
Prior Application Number		<u>14421362</u>
Filing Date (YYYY-MM-DD)		<u>2015-02-12</u>
Patent Number		<u>9867491</u>
Issue Date (YYYY-MM-DD)		<u>2018-01-16</u>

	Data of Record	Updated Data
Prior Application Status		<u>expired</u>
Application Number		<u>14421362</u>
Continuity Type		<u>NST</u>
Prior Application Number		<u>PCT/US2013/055348</u>
Filing Date (YYYY-MM-DD)		<u>2013-08-16</u>
Patent Number		
Issue Date (YYYY-MM-DD)		

		Data of Record	Updated Data
	Prior Application Status		<u>expired</u>
	Application Number		<u>PCT/US2013/055348</u>
	Continuity Type		<u>PRO</u>
	Prior Application Number		<u>61742688</u>
	Filing Date (YYYY-MM-DD)		<u>2012-08-16</u>
	Patent Number		
	Issue Date (YYYY-MM-DD)		

Foreign Priority Information

****If no data is shown, no data has been corrected****

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) 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).

		Data of Record	Updated Data
	Application Number		
	Country		
	Filing Date		
	Access Code		

Applicant Information

****If no data is shown, no data has been corrected****

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.

	Data of Record	Updated Data
Applicant Type		

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		
Applicant is an Organization		
Name		
Organization Name		
Address 1		
Address 2		
City,State/Province,Postal Code		
Country		
Phone Number		
Fax Number		
Email Address		

Assignee Information including Non-Applicant Assignee Information

****If no data is shown, no data has been corrected****

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

	Data of Record	Updated Data
Order		
Applicant is an Organization		
Name		

Organization Name		
-------------------	--	--

Mailing Address

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

Signature

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b).

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	/Gideon Duvall/	Registration Number	
First Name	Gideon	Last Name	Duvall

Electronic Patent Application Fee Transmittal

Application Number:	17020799			
Filing Date:	14-Sep-2020			
Title of Invention:	DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES			
First Named Inventor/Applicant Name:				
Filer:	Gideon Williams Duvall			
Attorney Docket Number:	DUVALL_20_DIV_1			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
PROCESSING FEE, EXCEPT PROV. APPLS.	2830	1	70	70
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				70

Electronic Acknowledgement Receipt

EFS ID:	41853385
Application Number:	17020799
International Application Number:	
Confirmation Number:	8811
Title of Invention:	DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES
First Named Inventor/Applicant Name:	
Customer Number:	131368
Filer:	Gideon Williams Duvall
Filer Authorized By:	
Attorney Docket Number:	DUVALL_20_DIV_1
Receipt Date:	05-FEB-2021
Filing Date:	14-SEP-2020
Time Stamp:	16:59:10
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 70
RAM confirmation Number	E202125G59071206
Deposit Account	
Authorized User	

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

Decent Espresso International Ltd., Exhibit 1013

Page 1013-74

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet to update/ correct info	CorrectedADS.pdf	87713	no	6
			653196252ca863863dfdd950b6ef90cef4d2d771		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30301	no	2
			46f19c15e4c551e959744b29aa4031fffbbe1d83		
Warnings:					
Information:					
Total Files Size (in bytes):			118014		
<p>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.</p> <p><u>New Applications Under 35 U.S.C. 111</u> 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.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> 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.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> 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.</p>					



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
17/020,799	09/14/2020	Gideon Duvall	DUVALL_20_DIV_1

CONFIRMATION NO. 8811

IMPROPER CFR REQUEST

131368
Gideon Duvall
6850 North Grande Drive
Boca Raton, FL 33433



Date Mailed: 02/08/2021

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Continuity, Priority Claims, Petitions, and Non-Publication Requests

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- The priority or continuity claim has not been entered because it was not filed during the required time period. Applicant may wish to consider filing a petition to accept an unintentionally delayed claim for priority. See 37 CFR 1.55 or 1.78.

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

/hteffer/

Gideon Duvall
Customer # 131368
930 Stallings Ave, SE
Atlanta, GA 30316
561 289-8924

July 1, 2021

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

Dear Commissioner:

This letter is to request restoration of priority for application number 17/020,799. Unfortunately, the application data sheet was accidentally filled out incorrectly and resulted in the priority not being appropriately established.

The requested priority is listed in application 17/020,799 and in the corrected ADS filed on 2-5-2021. Application 17/020,799 claims priority to pending U.S. Nonprovisional Patent Application Serial No. 15/845,946, filed on December 18, 2018, which was a continuation of U.S. Nonprovisional Patent Application Serial No. 14/421,362, filed on February 12, 2015 and patented as Patent No. 9,867,491, which was a 371 Nationalized Application of International Serial No. PCT/US2013/055348, filed on August 16, 2013 and now expired, which claims priority to U.S. Provisional Patent Application No. US 61/742,688, filed on August 16, 2012 and now expired.

Thank you,

A handwritten signature in black ink, appearing to read 'Gideon Duvall', with a stylized, flowing script.

Gideon Duvall
Inventor of Record for 17/020,799

Electronic Patent Application Fee Transmittal

Application Number:	17020799			
Filing Date:	14-Sep-2020			
Title of Invention:	DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES			
First Named Inventor/Applicant Name:	Gideon Duvall			
Filer:	Gideon Williams Duvall			
Attorney Docket Number:	DUVALL_20_DIV_1			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
PET. DELAY SUB OR RESTORE PRIORITY-CLAIM	2454	1	1050	1050
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1050

Electronic Acknowledgement Receipt

EFS ID:	43164062
Application Number:	17020799
International Application Number:	
Confirmation Number:	8811
Title of Invention:	DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES
First Named Inventor/Applicant Name:	Gideon Duvall
Customer Number:	131368
Filer:	Gideon Williams Duvall
Filer Authorized By:	
Attorney Docket Number:	DUVALL_20_DIV_1
Receipt Date:	02-JUL-2021
Filing Date:	14-SEP-2020
Time Stamp:	16:29:59
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 1050
RAM confirmation Number	E202172G31363347
Deposit Account	
Authorized User	

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

Decent Espresso International Ltd., Exhibit 1013

Page 1013-80

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition for review by the Office of Petitions	Signed_Petition_Restore_Priority.pdf	58660	no	1
			9b1ff195d648b1ccb1fe57b571d2ee0a9ee5272d		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30009	no	2
			c464973b8f2bb145e1060299f1cb6767d3424fbc		
Warnings:					
Information:					
Total Files Size (in bytes):			88669		
<p>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.</p> <p><u>New Applications Under 35 U.S.C. 111</u> 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.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> 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.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> 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.</p>					



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/020,799	09/14/2020	Gideon Duvall	DUVALL_20_DIV_1	8811
131368	7590	01/11/2022		
Gideon Duvall 6850 North Grande Drive Boca Raton, FL 33433			EXAMINER CENTRAL, DOCKET	
			ART UNIT	PAPER NUMBER
			OPAP	
			MAIL DATE	DELIVERY MODE
			01/11/2022	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.



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Gideon Duvall
6850 North Grande Drive
Boca Raton, FL 33433

In re Application of Duvall, Gideon
Application No.: 17/020,799
Filing Date: 14 September 2020
Attorney Docket No.: DUVALL_20_DIV_1
For: DEVICE AND SYSTEM FOR BREWING
INFUSED BEVERAGES

**DECISION ON PETITION
UNDER 37 CFR 1.78(c)
AND 1.78(e)**

This is a decision on the petition under 37 CFR 1.78(c) and (e), filed 02 July 2021, to accept an unintentionally delayed claim under 35 U.S.C. 119(e) and 120 for the benefit of priority to one or more prior-filed provisional and nonprovisional/international applications.

Under 37 CFR 1.78(c) and (e), a petition to accept an unintentionally delayed claim under 35 U.S.C. 119(e) and 120 for the benefit of a prior-filed application must be accompanied by:

- (i) the reference required by 35 U.S.C. 119(e) and 120 and 37 CFR 1.78(a)(3) and 1.78(d)(2) to the prior-filed applications, unless previously submitted;
- (ii) the petition fee set forth in 37 CFR 1.17(m); and
- (iii) a statement that the entire delay between the date the claim was due under 37 CFR 1.78(a)(4) and (d)(3) and the date the claim was filed was unintentional. The Director may require additional information where there is a question whether the delay was unintentional.

With regard to item (i), a proper reference to the prior-filed applications has been included in an application data sheet previously filed on 05 February 2021 as required by 37 CFR 1.78(a)(3) and (d)(2).

With regard to item (ii), the petition fee set forth in 37 CFR 1.17(m) has been submitted.

With regard to item (iii), the petition lacks the required statement of unintentional delay.

For the reasons above, the petition under 37 CFR 1.78(c) and (e) is **DISMISSED** without prejudice.

Any further correspondence with respect to this matter may be filed electronically via EFS-Web selecting the document description "Petition for review and processing by the PCT Legal Office" or by mail addressed to Mail Stop PCT, Commissioner for Patents, International Patent Legal Administration, P.O. Box 1450, Alexandria, Virginia 22313-1450, with the contents of the letter marked to the attention of the International Patent Legal Administration.

JAMES THOMSON
Attorney Advisor
International Patent Legal Administration
(571)272-3302



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
17/020,799	09/14/2020	Gideon Duvall	DUVALL_20_DIV_1

CONFIRMATION NO. 8811

131368
Gideon Duvall
6850 North Grande Drive
Boca Raton, FL 33433

PUBLICATION NOTICE



OC000000132523759

Title:DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES

Publication No.US-2022-0079376-A1

Publication Date:03/17/2022

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 accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

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 the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently <https://portal.uspto.gov/pair/PublicPair>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, 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

Gideon Duvall
Customer # 131368
930 Stallings Ave, SE
Atlanta, GA 30316
561 289-8924

May 31, 2022

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

Dear Commissioner:

This petition is to request restoration of priority for application number 17/020,799 after the dismissal of our original request.

Regrettably, when filing the original application data sheet, it was unintentionally filled out incorrectly and resulted in the priority not being appropriately established. The corrected application data sheet was also unintentionally submitted beyond the time period set forth in 37 CFR 1.78 due to communication delays.

The requested priority is listed in application 17/020,799 and in the corrected ADS filed on 2-5-2021. Application 17/020,799 claims priority to pending U.S. Nonprovisional Patent Application Serial No. 15/845,946, filed on December 18, 2018, which was a continuation of U.S. Nonprovisional Patent Application Serial No. 14/421,362, filed on February 12, 2015 and patented as Patent No. 9,867,491, which was a 371 Nationalized Application of International Serial No. PCT/US2013/055348, filed on August 16, 2013 and now expired, which claims priority to U.S. Provisional Patent Application No. US 61/742,688, filed on August 16, 2012 and now expired.

The delay in responding to the petition dismissal mailed on 1/11/2022 was unintentional and due to it being sent to an address where I, the inventor, do not currently live and it was not forwarded. However, after inquiring today, residents at that address stated that the petition decision letter was not received. Due to my not currently living at the address listed I frequently check the PAIR system as it has previously always provided updates when new documents are available or the status of the patent is changed. The PAIR did not record the issuance of this dismissal letter as an updated status thus I was unintentionally not aware of the dismissal till 5/30/2022, the day before writing this letter. As of today, 5/31/2022 the PAIR system still lists the last status change for this patent application, 17/020,799, as 8-20-21. The morning after it was discovered that the petition was dismissed, I called and spoke with James Thomson, the Attorney Advisor to inquire as to what the deficiencies were in the original petition: this petition should rectify those deficiencies. As such, the entire delay in filing this petition and correcting priority was unintentional.

Thank you,

/Gideon Duvall/

Gideon Duvall

Inventor of Record for 17/020,799

Electronic Acknowledgement Receipt

EFS ID:	45842653
Application Number:	17020799
International Application Number:	
Confirmation Number:	8811
Title of Invention:	DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES
First Named Inventor/Applicant Name:	Gideon Duvall
Customer Number:	131368
Filer:	Gideon Williams Duvall
Filer Authorized By:	
Attorney Docket Number:	DUVALL_20_DIV_1
Receipt Date:	31-MAY-2022
Filing Date:	14-SEP-2020
Time Stamp:	22:46:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition for review by the Office of Petitions	17_020799_Petition_2_eSigne d.pdf	61592 c5e8de68e92879c51169eb1c022f1dec874 5208a	no	2

Warnings:

Decent Espresso International Ltd., Exhibit 1013

Page 1013-88

Information:	
Total Files Size (in bytes):	61592
<p>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.</p> <p><u>New Applications Under 35 U.S.C. 111</u> 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.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> 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.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> 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.</p>	



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
17/020,799	09/14/2020	OPAP	785	DUVALL_20_DIV_1	12	1

131368
Gideon Duvall
6850 North Grande Drive
Boca Raton, FL 33433

CONFIRMATION NO. 8811
CORRECTED FILING RECEIPT



Date Mailed: 06/27/2022

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)

Gideon Duvall, Atlanta, GA;

Applicant(s)

Gideon Duvall, Atlanta, GA;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a DIV of 16/383,607 04/13/2019 PAT 10772456
which is a DIV of 15/845,946 12/18/2017 PAT 10258187
which is a CON of 14/421,362 02/12/2015 PAT 9867491
which is a 371 of PCT/US2013/055348 08/16/2013
which claims benefit of 61/742,688 08/16/2012

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: 09/23/2020

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/020,799**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES

Preliminary Class

099

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

page 2 of 4

countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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

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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).

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United States Patent and Trademark Office
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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/020,799	09/14/2020	Gideon Duvall	DUVALL_20_DIV_1	8811
131368	7590	06/27/2022		
Gideon Duvall 6850 North Grande Drive Boca Raton, FL 33433			EXAMINER CENTRAL, DOCKET	
			ART UNIT	PAPER NUMBER
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			MAIL DATE	DELIVERY MODE
			06/27/2022	PAPER

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



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United States Patent and Trademark Office
P.O. Box 1450
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www.uspto.gov

Gideon Duvall
6850 North Grande Drive
Boca Raton, FL 33433

In re Application of Duvall, Gideon
Application No.: 17/020,799
Filing Date: 14 September 2020
Attorney Docket No.: DUVALL_20_DIV_1
For: DEVICE AND SYSTEM FOR BREWING
INFUSED BEVERAGES

**DECISION ON PETITION
UNDER 37 CFR 1.78(c)
AND 1.78(e)**

This is a decision on the renewed petition under 37 CFR 1.78(c) and (e), filed 31 May 2022, to accept an unintentionally delayed claim under 35 U.S.C. 119(e) and 120 for the benefit of priority to one or more prior-filed provisional and nonprovisional/international applications.

Under 37 CFR 1.78(c) and (e), a petition to accept an unintentionally delayed claim under 35 U.S.C. 119(e) and 120 for the benefit of a prior-filed application must be accompanied by:

- (i) the reference required by 35 U.S.C. 119(e) and 120 and 37 CFR 1.78(a)(3) and 1.78(d)(2) to the prior-filed applications, unless previously submitted;
- (ii) the petition fee set forth in 37 CFR 1.17(m); and
- (iii) a statement that the entire delay between the date the claim was due under 37 CFR 1.78(a)(4) and (d)(3) and the date the claim was filed was unintentional. The Director may require additional information where there is a question whether the delay was unintentional.

Items (i) and (ii) were previously satisfied.

With regard to item (iii), the statement of unintentional delay contained in the petition differs slightly from the language contained in 37 CFR 1.78(c)(3) and (e)(3) and is hereby construed as a statement that the entire delay between the date the claim was due under 1.78(a)(4) and (d)(3) and the date the claim was filed was unintentional. If this interpretation is incorrect, applicant is required to immediately notify the Office. As construed, the provided statement of unintentional delay is acceptable.

It is also noted that the explanation in the petition for the delay in filing the renewed petition has been accepted.

For the reasons above, the renewed petition under 37 CFR 1.78(c) and (e) is **GRANTED**.

Applicant is advised that the inclusion of a prior-filed application on any filing receipt should not be construed as meaning that the application is necessarily entitled to the benefit of the prior-filed application. In order for an application to be entitled to the benefit of the prior-filed application, all other requirements under 35 U.S.C. 119(e) and 120 must be satisfied. **Decent Espresso International Ltd. Exhibit 1013**

in due course, determine whether this application is entitled to the benefit of an earlier filing date.

This matter is being referred to the appropriate Technology Center Art Unit for action, including consideration by the examiner of applicant's entitlement to the benefit of priority under 35 U.S.C. 119 (e) and 120 to any prior-filed applications.

/JAMES THOMSON/

JAMES THOMSON
Attorney Advisor
International Patent Legal Administration
(571)272-3302

ATTACHMENT: corrected filing receipt



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
17/020,799	09/14/2020	OPAP	785	DUVALL_20_DIV_1	12	1

131368
Gideon Duvall
6850 North Grande Drive
Boca Raton, FL 33433

CONFIRMATION NO. 8811
CORRECTED FILING RECEIPT



Date Mailed: 06/27/2022

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.

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Inventor(s)

Gideon Duvall, Atlanta, GA;

Applicant(s)

Gideon Duvall, Atlanta, GA;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a DIV of 16/383,607 04/13/2019 PAT 10772456
which is a DIV of 15/845,946 12/18/2017 PAT 10258187
which is a CON of 14/421,362 02/12/2015 PAT 9867491
which is a 371 of PCT/US2013/055348 08/16/2013
which claims benefit of 61/742,688 08/16/2012

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: 09/23/2020

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/020,799**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES

Preliminary Class

099

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific

page 2 of 4

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).

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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

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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
17/020,799	09/14/2020	Gideon Duvall	DUVALL_20_DIV_1

CONFIRMATION NO. 8811

**PUB REQUEST ACCEPTANCE
LETTER**

131368
Gideon Duvall
6850 North Grande Drive
Boca Raton, FL 33433



OC000000134858283

Date Mailed: 06/30/2022

NOTICE OF ACCEPTANCE OF PUBLICATION REQUEST

The request for voluntary publication, amended publication, early publication, redacted publication, republication, corrected publication or revised publication has been received for this application. The request, including payment of any necessary fee(s), is in compliance with 37 CFR 1.215, 1.217, 1.219 or 1.221.

The projected publication date is 10/06/2022.

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

/npfarmer/



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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
17/020,799	09/14/2020	Gideon Duvall	DUVALL_20_DIV_1

CONFIRMATION NO. 8811

131368
Gideon Duvall
6850 North Grande Drive
Boca Raton, FL 33433

PUBLICATION NOTICE



OC000000136510218

Title:DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES

Publication No.US-2022-0313010-A9

Publication Date:10/06/2022

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 accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

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 the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently <https://portal.uspto.gov/pair/PublicPair>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, 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



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UNITED STATES DEPARTMENT OF COMMERCE
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NOTICE OF ALLOWANCE AND FEE(S) DUE

131368 7590 10/07/2022
Gideon Duvall
6850 North Grande Drive
Boca Raton, FL 33433

EXAMINER

MICHALSKI, SEAN M

ART UNIT

PAPER NUMBER

3724

DATE MAILED: 10/07/2022

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/020,799	09/14/2020	Gideon Duvall	DUVALL_20_DIV_1	8811

TITLE OF INVENTION: DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$600	\$0.00	\$0.00	\$600	01/09/2023

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 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity 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.

Decent Espresso International Ltd., Exhibit 1013

Page 1013-103

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

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 including the Patent, advance orders and notification of maintenance fees 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.

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

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.

131368 7590 10/07/2022
Gideon Duvall
6850 North Grande Drive
Boca Raton, FL 33433

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 EFS-Web 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.
17/020,799	09/14/2020	Gideon Duvall	DUVALL_20_DIV_1	8811

TITLE OF INVENTION: DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$600	\$0.00	\$0.00	\$600	01/09/2023

EXAMINER	ART UNIT	CLASS-SUBCLASS
MICHALSKI, SEAN M	3724	099-280000

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,

1 _____

(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.

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) ☐ Advance Order - # of Copies _____

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

☐ Electronic Payment via EFS-Web ☐ 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. _____

Decent Espresso International Ltd., Exhibit 1013



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/020,799	09/14/2020	Gideon Duvall	DUVALL_20_DIV_1	8811
131368	7590	10/07/2022	EXAMINER	
Gideon Duvall 6850 North Grande Drive Boca Raton, FL 33433			MICHALSKI, SEAN M	
			ART UNIT	PAPER NUMBER
			3724	
DATE MAILED: 10/07/2022				

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. 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 or a patent. **Decent Espresso International Ltd. Exhibit 1013**
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. **Page 1013/106**

Notice of Allowability	Application No. 17/020,799	Applicant(s) Duvall, Gideon	
	Examiner SEAN M MICHALSKI	Art Unit 3724	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 9/14/2020.
☐ 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 1-12. 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) 2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____ 3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____ 4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____	5. ☐ Examiner's Amendment/Comment 6. ☒ Examiner's Statement of Reasons for Allowance 7. ☐ Other _____
---	---

/SEAN M MICHALSKI/
Primary Examiner, Art Unit 3724

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. 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

2. Claims 1-12 are allowed.

3. The following is an examiner's statement of reasons for allowance: In the art of record, considered the best art available, there is no disclosure or teaching of the essential features of claim 1. Specifically, the use of two solvents, two pumps, two thermal modulators and a resultant brewing infusion interaction with a solute is not seen in the art.

4. The closest art may be considered to be Anson (US 5,584,229) which discloses a beverage infusion device, common in the art. The similarity with the present invention is based on the inclusion of first and second reservoirs (see figure 3) which are used to adjust the temperature of a mixed prepared beverage, by the addition of a lower temperature liquid to an infused beverage *after infusion* (See figure 2 at 50/52). While it is known to provide for mixing of liquids to have a resultant temperature beverage, the Anson reference indicates that the adjustment of the temperature of the infusion temperature is not known to be the product of mixed solvents before the infusion, which is required by the claim. While a mixing valve to accomplish a general adjustment of a water temperature is known in the broader art of valving/mixing liquids (See, e.g. 8,225,961) the inclusion of such a mixing valve and control is not seen to be warranted by the problems and desires faced in the brewing device area, nor would duplication of pumps to effect such a change be considered obvious in this context. It would not

Art Unit: 3724

be a simple duplication of pumps for added effect—but a duplication to add a different function (mixing temperature adjustment pre-brew/infusion).

5. Also noted as similar, but ineffective to reject the claims at issue here, is Smeller (US 8,807,392) which includes a mixing head (44 “chamber”) with mixing blades 46 and sources of distinct fluids for processing together into a single beverage. For example, adding a coffee component to a vanilla flavoring component. This is not the addition and controllability of solvents to a brew process, and the mixability of different ingredients in proportionate control would not have motivated the adjustment of known beverage infusers to control temperature by mixing valve for the solvent, since the adjustment of temperature does not solve a problem in the prior art, and would not have suggested itself to that particular use as now claimed.

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

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SEAN M MICHALSKI whose telephone number is (571)272-6752. The examiner can normally be reached Typically M-F 6a-3:30p East Coast Time.

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, Boyer Ashley can be reached on (571) 272-4502. 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.

/SEAN M MICHALSKI/
Acting Supervisory Patent Examiner of Art Unit 3724

<i>Notice of References Cited</i>	Application/Control No. 17/020,799		Applicant(s)/Patent Under Reexamination Duvall, Gideon	
	Examiner SEAN M MICHALSKI		Art Unit 3724	Page 1 of 4

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20190365913-A1	12-2019	Wooster; Richard	A61K47/6425	1/1
*	B	US-20190365145-A1	12-2019	Duvall; Gideon	A47J31/5251	1/1
*	C	US-20190308172-A1	10-2019	Zou; Weiqing Joe	B01J35/1038	1/1
*	D	US-20180369717-A1	12-2018	WATANABE; Akira	B01D11/02	1/1
*	E	US-10349774-B2	07-2019	Duvall; Gideon	A47J31/521	1/1
*	F	US-9480359-B1	11-2016	Kalenian; Paul	A23F5/262	1/1
*	G	US-20160144292-A1	05-2016	Crandall; Matthias K.	B01D11/0207	422/255
*	H	US-8807392-B2	08-2014	Smeller; Donald W.	B67D1/0044	239/419
*	I	US-20220248898-A1	08-2022	Widmer; Markus	A47J31/10	1/1
*	J	US-20200095108-A1	03-2020	Cook; Christopher Michael	B67D1/0046	1/1
*	K	US-20170086618-A1	03-2017	BOLOGNESE; Danilo	A47J31/469	1/1
*	L	US-20160023879-A1	01-2016	Walker; Debra L .	B67D1/0078	141/105
*	M	US-8739687-B1	06-2014	Tacklind; Christopher	A47J31/42	99/290

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.

<i>Notice of References Cited</i>	Application/Control No. 17/020,799		Applicant(s)/Patent Under Reexamination Duvall, Gideon	
	Examiner SEAN M MICHALSKI		Art Unit 3724	Page 2 of 4

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20120298258-A1	11-2012	Rithener; Blaise	A47J31/00	141/285
*	B	US-20080148959-A1	06-2008	Bockbrader; Robert H.	A47J31/402	99/323.3
*	C	US-7861646-B2	01-2011	Bockbrader; Robert H.	A47J31/465	99/302R
*	D	US-20050104493-A1	05-2005	Hart, Burton L	A47J31/401	312/334.1
*	E	US-6142063-A	11-2000	Beaulieu; Roderick H.	A47J31/3623	99/302R
*	F	US-6082247-A	07-2000	Beaulicu; Roderick H.	A47J31/402	222/394
*	G	US-5584229-A	12-1996	Anson; James H.	A47J31/465	99/280
*	H	US-4745852-A	05-1988	Sager; Peter	A47J31/402	99/280
*	I	US-10610049-B2	04-2020	Doglioni Majer; Andrea	A47J31/469	1/1
*	J	US-20180168391-A1	06-2018	Eriksson; Anders	A47J31/56	1/1
*	K	US-20180098658-A1	04-2018	ANGELL; Jonathan Russell	A47J31/44	1/1
*	L	US-10278533-B2	05-2019	Angell; Jonathan Russell	A47J31/44	1/1
*	M	US-20170354290-A1	12-2017	Jones; Curt	A47J31/40	1/1

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*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.

<i>Notice of References Cited</i>	Application/Control No. 17/020,799		Applicant(s)/Patent Under Reexamination Duvall, Gideon	
	Examiner SEAN M MICHALSKI		Art Unit 3724	Page 3 of 4

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20060196363-A1	09-2006	Rahn; Christopher W.	A47J31/5253	99/279
*	B	US-5309821-A	05-1994	Knepler; John T.	A47J31/54	99/291
*	C	US-5158793-A	10-1992	Helbling; Edward	A47J31/467	99/291
*	D	US-20220117437-A1	04-2022	LIN; Shu Jing	A47J31/5255	1/1
*	E	US-20220079376-A1	03-2022	Duvall; Gideon	A47J31/468	1/1
*	F	US-20190174950-A1	06-2019	Hendrickson; Kyle Johan	A47J31/4489	1/1
*	G	US-20190125123-A1	05-2019	Startz; Armin	A47J31/52	1/1
*	H	US-20190014942-A1	01-2019	Juve; Ronald A.	A47J31/5253	1/1
*	I	US-20180255962-A1	09-2018	Vetterli; Heinz	A47J31/52	1/1
*	J	US-10506893-B2	12-2019	Thakkar; Viral	A23F3/18	1/1
*	K	US-8695481-B2	04-2014	Carbonini; Carlo	A47J31/56	99/279
*	L	US-8225961-B2	07-2012	Anson; James H.	A47J31/469	222/14
*	M	US-6571685-B1	06-2003	Lassota; Zbigniew G.	A47J31/0615	99/283

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

<i>Notice of References Cited</i>	Application/Control No. 17/020,799		Applicant(s)/Patent Under Reexamination Duvall, Gideon	
	Examiner SEAN M MICHALSKI		Art Unit 3724	Page 4 of 4

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-6460735-B1	10-2002	Greenwald; Shlomo	A47J31/467	222/145.5
*	B	US-5858437-A	01-1999	Anson; James H.	A47J31/402	99/305
*	C	US-20060042470-A1	03-2006	Anson; James H.	G05D23/1393	99/275
*	D	US-9603482-B2	03-2017	McHale; James	F16K19/00	1/1
*	E	US-6250558-B1	06-2001	Dogre Cuevas; Miguel E.	G05D23/1393	236/94
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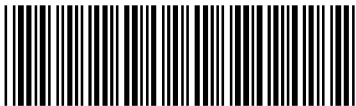
FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

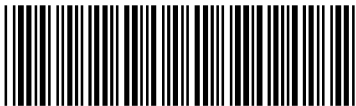
*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Issue Classification 	Application/Control No. 17/020,799	Applicant(s)/Patent Under Reexamination Duvall, Gideon
	Examiner SEAN M MICHALSKI	Art Unit 3724

CPC						
Symbol					Type	Version
A47J	/	31	/	5255	F	2018-08-01
A47J	/	31	/	5253	I	2018-08-01
A47J	/	31	/	468	I	2018-08-01

CPC Combination Sets				
Symbol		Type	Set	Ranking
	/		/	

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 12	
/SEAN M MICHALSKI/ Primary Examiner, Art Unit 3724 (Primary Examiner) _____ (Date) _____		29 September 2022 O.G. Print Claim(s) 1	O.G. Print Figure 2

Issue Classification 	Application/Control No. 17/020,799	Applicant(s)/Patent Under Reexamination Duvall, Gideon
	Examiner SEAN M MICHALSKI	Art Unit 3724

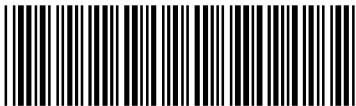
INTERNATIONAL CLASSIFICATION			
CLAIMED			
A47J31/52	/	31	/ 52
A47J31/46	/	31	/ 46

NON-CLAIMED			
/		/	

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	12	
/SEAN M MICHALSKI/ Primary Examiner, Art Unit 3724	29 September 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2

Issue Classification 	Application/Control No. 17/020,799	Applicant(s)/Patent Under Reexamination Duvall, Gideon
	Examiner SEAN M MICHALSKI	Art Unit 3724

☒ 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

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 12	
/SEAN M MICHALSKI/ Primary Examiner, Art Unit 3724 (Primary Examiner) _____ (Date) 29 September 2022		O.G. Print Claim(s) 1	O.G. Print Figure 2

<i>Search Notes</i> 	Application/Control No. 17/020,799	Applicant(s)/Patent Under Reexamination Duvall, Gideon
	Examiner SEAN M MICHALSKI	Art Unit 3724

CPC - Searched*		
Symbol	Date	Examiner
B67D1/0044.cpc. OR B67D1/07.cpc. OR A47J31/402.cpc. OR B67D1/0036.cpc. OR B67D1/0047	09/29/2022	smm
a47j31/5253,5255.	09/29/2022	SMM
a47j31/467,468	09/29/2022	SMM

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* 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
See attached. FWD BKWD from pertinent references, checked prior application search history.	09/29/2022	SMM
targeted text.	09/29/2022	SMM
Inventor name search (Duvall near gideon).in.	09/29/2022	smm

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<i>Search Notes</i> 	Application/Control No. 17/020,799	Applicant(s)/Patent Under Reexamination Duvall, Gideon
	Examiner SEAN M MICHALSKI	Art Unit 3724

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
a47j	31/5253,5255	09/29/2022	SMM
a47j	31/467,468	09/29/2022	SMM

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Bibliographic Data

Application No: 17/020,799

Foreign Priority claimed: ☐ Yes ☒ No

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

Verified and Acknowledged: /SEAN M MICHALSKI/

Examiner's Signature

Initials

Title: DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
09/14/2020	099	3724	DUVALL_20_DIV_1
RULE			

APPLICANTS

INVENTORS

Gideon Duvall, Atlanta, GA, UNITED STATES

CONTINUING DATA

This application is a DIV of 16383607 04/13/2019 PAT 10772456

16383607 is a DIV of 15845946 12/18/2017 PAT 10258187

15845946 is a CON of 14421362 02/12/2015 PAT 9867491

14421362 is a 371 of PCT/US2013/055348 08/16/2013

PCT/US2013/055348 has PRO of 61742688 08/16/2012

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

09/23/2020

** SMALL ENTITY **

STATE OR COUNTRY

UNITED STATES

ADDRESS

Gideon Duvall
6850 North Grande Drive
Boca Raton, FL 33433
UNITED STATES

FILING FEE RECEIVED

\$785

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	2143	(solvent diluent) near4 (duplicate dual second clone ancillary) AND (beverage coffee espresso drink) AND pump AND (thermal temperature heater cooling cooler chiller chilling heated boiler)	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/29 06:41 AM
L2	965	(solvent diluent) near4 (duplicate dual second clone ancillary) AND (beverage coffee espresso drink) AND pump AND (thermal temperature heater cooling cooler chiller chilling heated boiler) WITH (control controller automated)	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/29 06:42 AM
L3	19503816	B "67" D 1/0044.cpc. OR B "67" D 1/07.cpc. OR A "47" J 31/402.cpc. OR B "67" D 1/0036.cpc. OR B "67" D 1/0047.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/29 08:02 AM
L4	1690	B67D1/0044.cpc. OR B67D1/07.cpc. OR A47J31/402.cpc. OR B67D1/0036.cpc. OR B67D1/0047.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/29 08:03 AM
L5	104	L4 AND (infused infusion brewing brewed brewer) near4 (chamber container vessel body)	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/29 08:04 AM
L6	528	a47j31/467,468.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/29 09:14 AM
L7	653	a47j31/5253,5255.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/29 09:44 AM
L8	56	("4064795" "4621571" "4809594" "4920871" "5025714" "5113752" "5245914" "5460078").pn. OR ("5584229").urpn. AND (PGPB USPT USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/29 09:47 AM
L9	50	(Artificial Intelligence) More like doc:	(US-PGPUB; USPAT; USOCR; FIT (AU, AP,	OR	ON	ON	2022/09/29 10:09 AM

		US-8695481-B2 Text: (EP-1969979-B1 OR WO-2008110961-A1 OR EP-1969979-A1 OR ES-2349077-T3 OR US-20100043647-A1 OR PT-1969979-E OR EP-1354543-A1 OR ES-2751905-T3 OR CA-2517044-A1 OR CN-105722441-A OR FR-2683135-A1 OR US-20090101019-A1 OR EP-2050372-A1 OR EP-2050372-B1 OR EP-2991530-A1 OR WO-2014177925-A1 OR ES-2371098-T3 OR FR-2692129-A1 OR US-20220248897-A1 OR AU-2020319152- A1).did.	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)				
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PE2E SEARCH - Search History (Interference)

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N2	317	a47j31/467,468.cpc.	(US-PGPUB)	OR	ON	ON	2022/09/29 10:31 AM

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

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 including the Patent, advance orders and notification of maintenance fees 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.

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.

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131368 7590 10/07/2022
Gideon Duvall
6850 North Grande Drive
Boca Raton, FL 33433

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/020,799	09/14/2020	Gideon Duvall	DUVALL_20_DIV_1	8811

TITLE OF INVENTION: DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$600	\$0.00	\$0.00	\$600	01/09/2023

EXAMINER	ART UNIT	CLASS-SUBCLASS
MICHALSKI, SEAN M	3724	099-280000

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 Mark C. Johnson
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)

Duvall Espresso IP Enforcement, LLC

Boca Raton, FL, USA

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) ☐ Advance Order - # of Copies _____

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

☒ Electronic Payment via EFS-Web ☐ 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 Gideon Duvall
Typed or printed name Gideon Duvall

Date 1/9/2023
Registration No. _____

Electronic Patent Application Fee Transmittal

Application Number:	17020799			
Filing Date:	14-Sep-2020			
Title of Invention:	DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES			
First Named Inventor/Applicant Name:	Gideon Duvall			
Filer:	Gideon Williams Duvall			
Attorney Docket Number:	DUVALL_20_DIV_1			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	2501	1	600	600

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				600

Electronic Acknowledgement Receipt

EFS ID:	47339392
Application Number:	17020799
International Application Number:	
Confirmation Number:	8811
Title of Invention:	DEVICE AND SYSTEM FOR BREWING INFUSED BEVERAGES
First Named Inventor/Applicant Name:	Gideon Duvall
Customer Number:	131368
Filer:	Gideon Williams Duvall
Filer Authorized By:	
Attorney Docket Number:	DUVALL_20_DIV_1
Receipt Date:	09-JAN-2023
Filing Date:	14-SEP-2020
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File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	17020799_PTOL_85_Part_B_Signed.pdf	218997	no	1
			151c8e65e42a521d0c5da3350622127c16451885		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	37712	no	2
			aba8f1febb39c49c57b5ccc7f256dfe9ddb27fd8		
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Total Files Size (in bytes):			256709		
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ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

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 327 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 Application Information Retrieval (PAIR) WEB site (<http://pair.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.

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