

J. FRITSCHÉ.

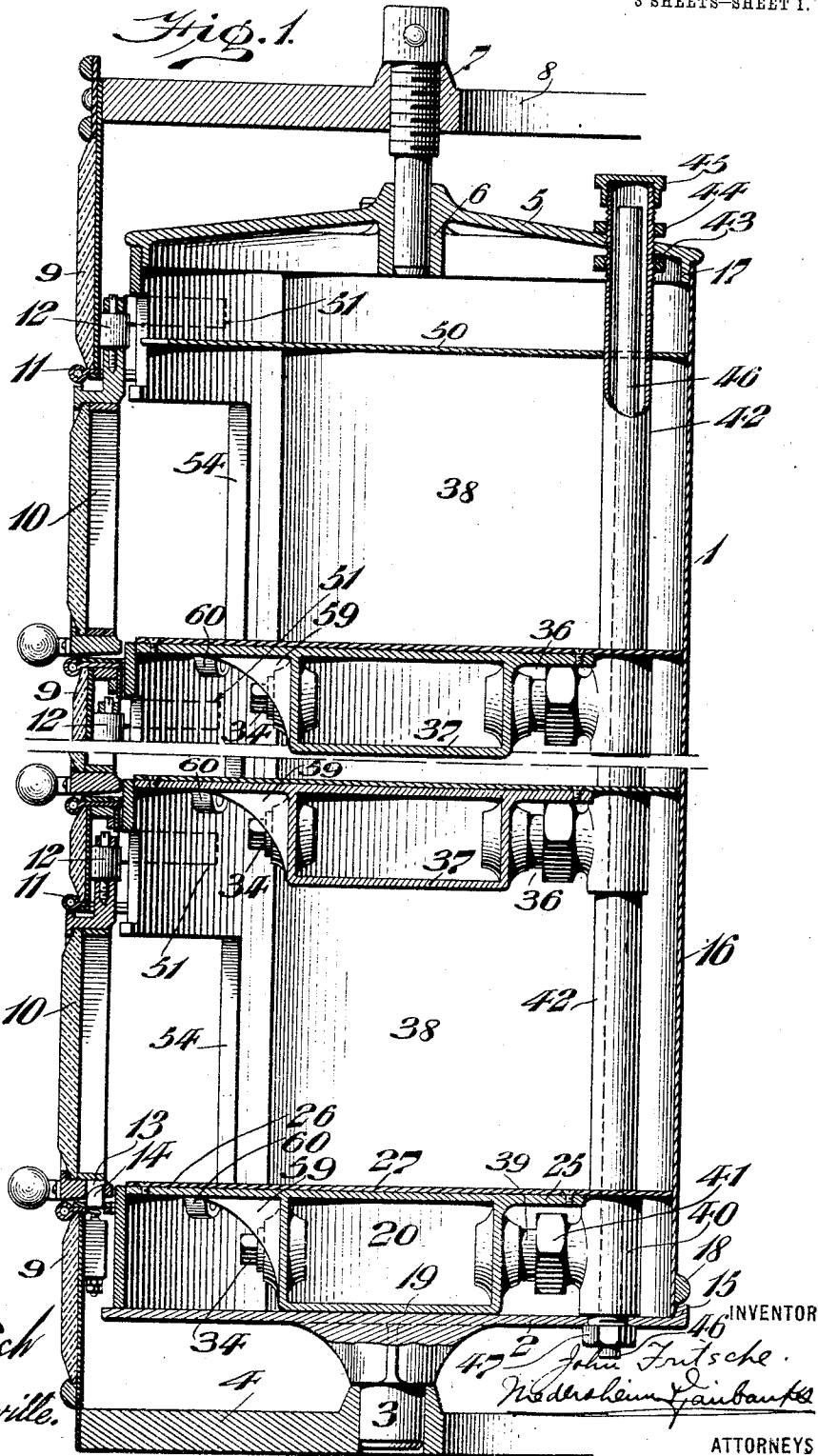
CONTAINER FOR RETAINING ARTICLES IN A HEATED CONDITION.

APPLICATION FILED DEC. 20, 1911.

1,039,507.

Patented Sept. 24, 1912.

3 SHEETS—SHEET 1.



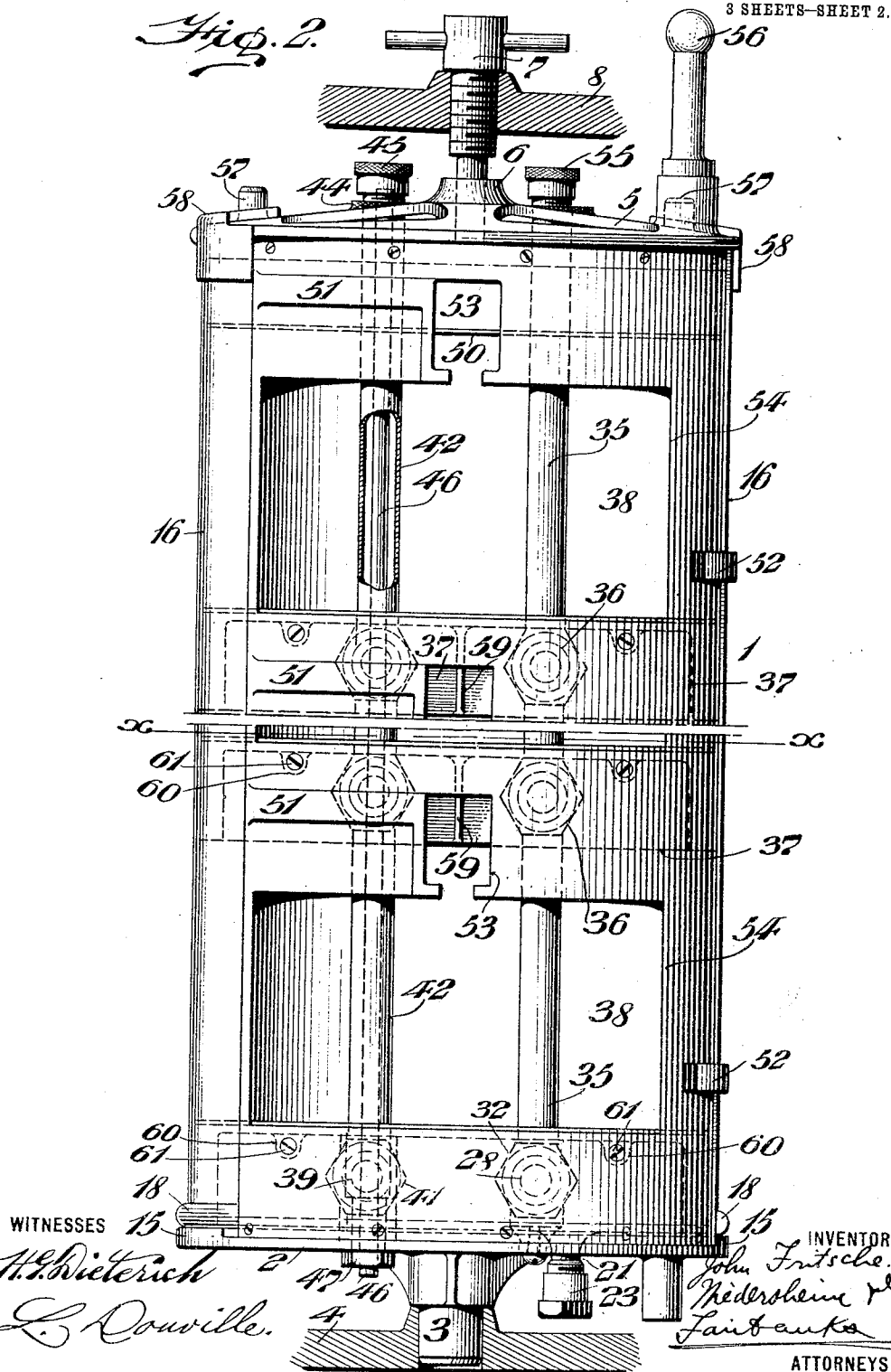
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3 SHEETS—SHEET 2.

Fig. 2.



WITNESSES

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L. Douville.

INVENTOR

John Fritsche.
H. E. Dieterich & L. Douville

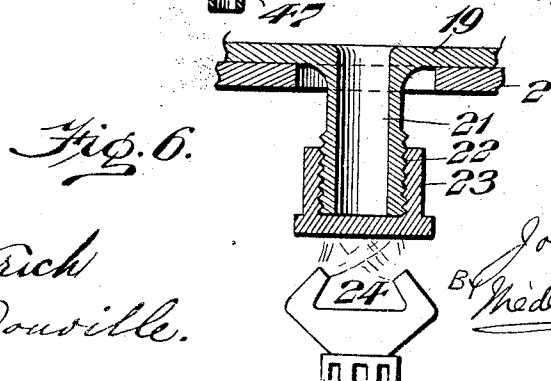
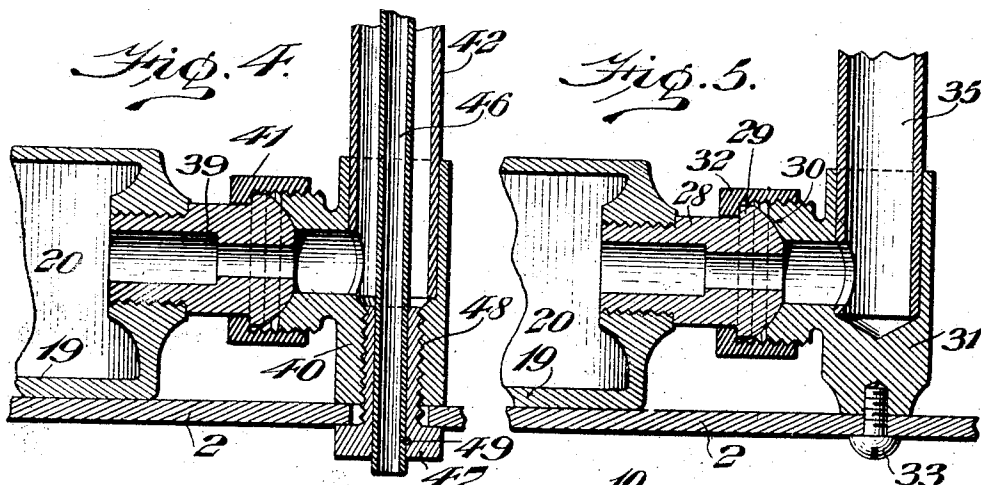
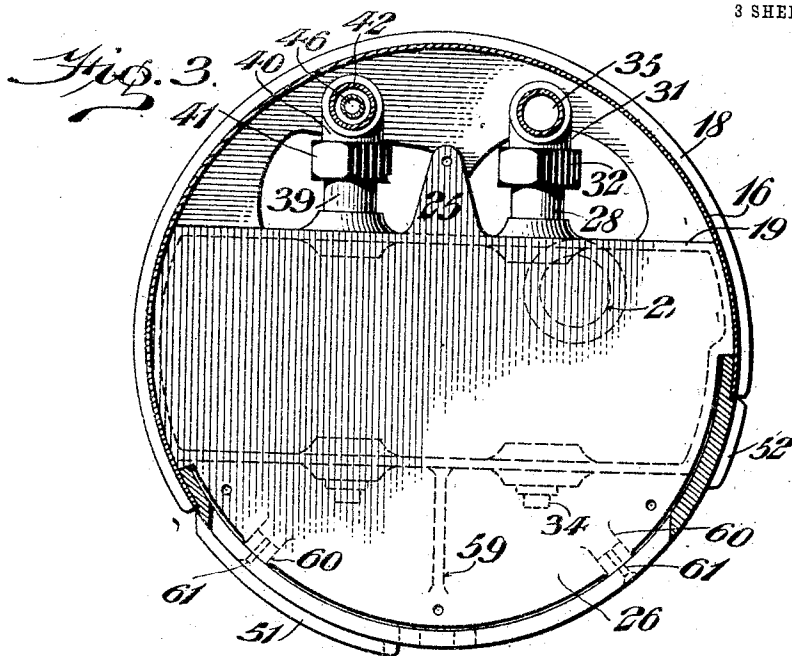
ATTORNEYS

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WITNESSES

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UNITED STATES PATENT OFFICE.

JOHN FRITSCHÉ, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF ONE-THIRD TO JOSEPH V. HORN AND ONE-THIRD TO FRANK HARDART, BOTH OF PHILADELPHIA, PENNSYLVANIA.

CONTAINER FOR RETAINING ARTICLES IN A HEATED CONDITION

1,039,507.

Specification of Letters Patent.

Patented Sept. 24, 1912.

Application filed December 20, 1911. Serial No. 866,919.

To all whom it may concern:

Be it known that I, JOHN FRITSCHÉ, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful
5 Container for Retaining Articles in a Heated Condition, of which the following is a specification.

My present invention relates to a container which is especially designed to be used in conjunction with my novel vending machine such as is described and broadly claimed in my co-pending application for patent, filed on the 20th day of December,
15 1911, Serial No. 666,920, but which may be used independently of said vending apparatus or any other vending apparatus.

It further consists of a novel construction of an article receiving container in which I am enabled to obtain a circulation of a heated fluid in order to maintain the compartments within the container at a desired temperature, thereby preventing the cooling of the articles to be vended, such as for example, articles of food.

My invention further consists of a novel construction of a container provided with a novel construction and arrangement of compartments, novel means for circulating a heated fluid between such compartments and novel means for permitting the escape of steam in case such is momentarily produced.

It further consists of a novel manner of causing a circulation of the liquid.

35 It further consists of other novel features of construction, all as will be hereinafter fully set forth.

For the purpose of illustrating my invention, I have shown in the accompanying drawings one form thereof which is at present preferred by me, since the same has been found in practice to give satisfactory and reliable results, although it is to be understood that the various instrumentalities of which my invention consists can be variously arranged and organized and that my invention is not limited to the precise arrangement and organization of these instrumentalities as herein shown and described.

50 Figure 1 represents a sectional elevation of a container for retaining articles in a heated condition, the same being shown in conjunction with a portion of a vending machine structure. Fig. 2 represents a front

elevation of my novel container. Fig. 3 represents a section in line $x-x$ Fig. 2. Fig. 4 represents a sectional elevation of a portion of my device showing the manner in which the escape of steam is permitted, and certain details of construction. Fig. 5 represents a sectional elevation of a portion of my device showing on an enlarged scale, certain details of construction. Fig. 6 represents a sectional elevation of a portion of the lower end of the container, and a burner coöperating therewith.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings, 1 designates a container embodying my invention, the same, in the present instance, being provided at its lower end with a bottom 2 having a bearing 3 which is adapted to be rotatably mounted in a suitable support such as the plate 4 forming a part of the vending machine structure. The upper end of the container is provided with a top plate or cover 5 having a boss 6 into which is adapted to extend a bearing pin 7, adjustably carried by a suitable frame such as the plate 8 of the vending machine structure, whereby the container 1 is rotatably mounted with respect to the vending machine structure, which latter is provided with a front wall 9 in which is pivotally supported a plurality of doors 10, which are preferably transparent, said doors having an extension 11 in which is mounted an anti-friction device 12, such as for example, the rollers indicated in Fig. 1. The door 10 is provided with apertures 13 with which are adapted to interlock spring pressed plungers 14, said plungers and rollers being controlled in the same manner as is indicated in my co-pending application for vending machine to which I have hereinbefore referred, and since the same forms no part of my present invention, a detailed description of the same is unnecessary.

The bottom member 2 of the container 1 is provided with an upwardly extending flange 15 within which is adapted to be seated the shell 16, which latter extends exteriorly of the flange 17 on the cover 5.

18 designates an annulus passing around the shell 16 at its lower end, as seen in Figs. 1 and 2. The bottom casting 2 has seated thereon a rectangular or other shaped con-

5 tainer 19 which forms a heating chamber
 20, the container 19 being provided off its
 center with a depending conduit 21, Figs.
 2 and 6, the lower end of which is threaded,
 as indicated at 22, thereby adapting the
 same to receive a cap nut or closure 23
 against which the flames from a burner or
 other source of heat 24 are adapted to act
 to heat the liquid in the chamber 20 and
 10 cause it to circulate as hereinafter described.
 The closed top of the container 19 has
 flanges 25 and 26 to which is secured a plate
 27 in any desired manner, said plate serving
 as a support for the articles which it is de-
 15 sired to retain in a heated condition. 28 is
 a conduit communicating with the chamber
 20 and having threaded connection with the
 container 19, the outer portion of such con-
 20 duct having a shoulder 29 and provided with
 a beveled or conical end 30 which coöper-
 ates with a seat of similar conformation in
 the fitting 31 which latter is threaded to
 receive a nut 32 which coöperates with the
 shoulder 29 to form a fluid tight joint be-
 25 tween the conduit 28 and the fitting 31
 which latter is fixed in position by a fasten-
 ing device 33 engaging the plate 2. The
 container 19 has a removable closure 34 for
 convenience in casting the same. 35 is a
 30 conduit carried by the fitting 31 and com-
 municating with the conduit 28 and leading
 to a fitting 36 which communicates with a
 liquid container 37 for the next compart-
 35 ment and since such container 37 corre-
 sponds in construction to the container 19,
 a detailed description thereof would involve
 needless repetition, it being understood that
 the number of containers would correspond
 40 to the number of compartments 38 employed,
 which may vary as desired. The container
 19 has also communicating therewith a con-
 duct 39, similar in construction to the con-
 duct 28, and secured to a fitting 40 which
 45 latter has a coupling 41 securing the parts
 in fluid tight relation in the same manner as
 has already been described with reference
 to Fig. 5, it being understood that each fluid
 container is provided with a conduit similar
 to 39, which communicates with a fitting
 50 with which latter communicates, conduits
 42, the upper of said conduits 42 extending
 through the top 5 of the casing and having
 on opposite sides thereof the nuts 43 and 44,
 55 which have threaded engagement therewith,
 the upper end of said uppermost conduit 42
 being provided with a removable closure 45,
 having threaded engagement therewith, in
 the present instance.

46 designates an overflow pipe located
 60 within the conduits 42 and having a tight
 fit in the sleeve nut 47, which latter has
 threaded engagement at 48 with the fitting
 40, and the head of the nut is adapted to en-
 65 gage the bottom of the plate 2, in order to
 maintain the fitting 40 in proper position

and also in order to retain the overflow con-
 duct 46 in position, it being seen from Fig.
 4 that improper movement of the overflow
 pipe 46 with respect to the sleeve nut 47 is
 prevented by means of a pin 49.

The lower compartment 38 is formed be-
 tween the lower and upper plates 27, and
 the upper compartment 38 is formed be-
 tween a plate 27^a and the plate 50, secured
 to the shell 16 in any desired manner. The
 75 shell is cut away, as indicated at 54, in order
 to form an open side providing access to a
 compartment 38. The upper conduit 35 ex-
 tends through the top plate 5 and is pro-
 vided with a removable cap or closure 55.

56 designates a post extending from the
 top plate 5 and secured thereto in any de-
 sired manner, which serves as the grasping
 portion of the container 1 for rotating the
 same. The top plate 5 is provided with the
 85 upwardly extending pins 57 which engage
 apertured brackets 58 which latter are se-
 cured to the shell 16 and have lateral aper-
 tured extensions with which pins 57 inter-
 lock to prevent relative movement of the
 90 plate 5 and the shell 16.

The container 19 is provided with rein-
 forcing ribs 59 and also with lugs 60 through
 which fastening devices 61 pass to secure the
 shell 16 with respect to the container 19.

My present invention resides in the con-
 tainer *per se* for holding and maintaining
 in a heated state articles of food, and it is
 to be definitely understood that without in-
 100 volving departure from the present inven-
 tion the counter may be supported in any
 approved manner, and doors of any suitable
 type may be employed for closing the open-
 ings 54 except when it is desired to gain ac-
 105 cess to the compartments 38.

The operation of my novel container for
 maintaining articles in a heated condition
 will now be apparent to those skilled in this
 art and is as follows:—The heating medium,
 such as for example water, is placed within
 110 the container 19 and a source of heat main-
 tains the same at the desired temperature
 and in case a Bunsen burner is employed,
 the flames therefrom act upon the closure 23
 thereby causing circulation of the hot water
 115 which passes through the conduits 28 into
 the conduits 35 thence to a liquid container
 37 beneath the next compartment and so on
 through the other liquid container 37 and
 also through the conduits 39 and 42 which
 120 communicate with such containers 19 and
 37. In case steam should be formed, I pro-
 vide means for permitting escape thereof
 since the same may pass through the over-
 125 flow pipe 46 which discharges beneath the
 bottom of the container.

When it is desired to fill the compart-
 130 ments 38 the container will be rotated on its
 bearings so that the open side of the com-
 partments 38 will be turned to the rear of

the machine and can then be readily filled by the attendant.

It has been found in practice that by the employment of a construction, as shown herein, articles of food may be maintained at a predetermined temperature for a period of several hours thereby enabling me to produce a vending machine which will maintain the articles to be vended at a predetermined temperature.

It will now be apparent that I have devised a novel and useful construction of a container for retaining in a heated condition articles to be vended, which embodies the features of advantage enumerated as desirable in the statement of the invention and the above description and while I have, in the present instance, shown and described a preferred embodiment thereof which has been found in practice to give satisfactory and reliable results, it is to be understood that the same is susceptible of modification in various particulars without departing from the spirit or scope of the invention or sacrificing any of its advantages.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. In a device of the character described, a container having compartments arranged one above the other, a water container disposed immediately below the lower compartment and having a depending conduit closed at its lower end, means for heating said depending conduit, a water container disposed immediately below the upper compartment, an upright conduit connected with the said

water-containers and closed at its lower and upper ends and extending above the upper water container, and an upright conduit, of smaller diameter than the first-named conduit, arranged in the first-named conduit and extending above the upper water container and open at its upper end, and extending down below the first-named conduit and open at its lower end.

2. In a device of the character described, a container having compartments arranged one above the other, a water container disposed immediately below the lower compartment and having a depending conduit closed at its lower end, means for heating said depending conduit, a water container disposed immediately below the upper compartment, a water container arranged in the upper portion of the lower compartment, an upright conduit connected at intermediate points of its length with said water containers and extending below the lower compartment and above the upper compartment, means closing the upper end of said conduit, a sleeve closing the lower end of the conduit, an upright conduit, smaller in diameter than the first-named conduit, arranged in the first-named conduit and extending from a point adjacent the upper closed end thereof downward and through the sleeve and open at its upper and lower ends, and means in the sleeve for supporting the second-named conduit.

JOHN FRITSCHÉ.

Witnesses:

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C. D. McVAY.