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### Clothing treatment device

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#### Abstract

A clothing treatment device includes a cabinet having an open part provided at the front thereof, a door assembly for opening and closing the open part, a first clothing treatment room, which is provided inside the cabinet so as to provide a space for accommodating clothing therein, and communicates with the outside of the cabinet through the open part, and a machinery room for circulating steam or air in the first clothing treatment room. The door assembly includes an assembly housing which opens and closes the opened front surface of the cabinet and which has a space of a second clothing treatment room therein, and an assembly door for opening and closing, at the front of the cabinet, the second clothing treatment room formed in the assembly housing.

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## Background/Summary

CROSS-REFERENCE TO RELATED APPLICATIONS (1) This application is a continuation of U.S. application Ser. No. 17/041,260, filed on Sep. 24, 2020, which is a National Stage application under 35 U.S.C. § 371 of International Application No. PCT/KR2019/003925, filed on Apr. 3,

2019, which claims the benefit of Korean Application No. 10-2019-0038733, filed on Apr. 2, 2019, Korean Application No. 10-2018-0074728, filed on Jun. 28, 2018, U.S. Provisional Application No. 62/679,035, filed on Jun. 1, 2018, and Korean Application No. 10-2018-0038422, filed on Apr. 3, 2018. The disclosures of the prior applications are incorporated by reference in their entirety.

## TECHNICAL FIELD

(1) The present disclosure relates to a laundry treating apparatus, and more particularly, to a laundry treating apparatus that may remove wrinkles by using steam and hot wire while separately using a laundry treating chamber inside a door assembly.

## BACKGROUND

(2) Generally, a laundry treating apparatus refers to an apparatus that carries out a series of processes (e.g., washing, drying, deodorization, wrinkle removal, etc.) in relation to laundry. The term “laundry treating apparatus” may comprise a washing machine for washing laundry, a dryer for drying wet laundry, a washing machine with a drying function together with a washing function, a refresher for removing odors or wrinkles out of laundry, and a steamer for removing unnecessary wrinkles of laundry.

(3) The refresher is an apparatus for refreshing a state of laundry, and serves to dry laundry, supply fragrance to laundry, prevent static electricity from occurring in laundry, or remove wrinkles of laundry.

(4) Meanwhile, the development trend of laundry treating apparatuses is toward a single apparatus designed to carry out all of washing, drying, deodorization, and wrinkle removal for laundry. However, the existing laundry treating apparatuses are limited in deodorizing laundry or removing wrinkles from laundry because of the use of a drum for accommodating laundry and a driver for rotating the drum.

(5) To address the problem, a “laundry treating apparatus” comprising a steamer and a refresher is disclosed in the Korean Laid-Open Patent No. 10-2014-0184457. The laundry treating apparatus comprises a treating chamber for treating laundry through air circulation or steam, and a separate crease removal module for removing a crease by pressurizing laundry inside the treating chamber.

(6) In the above laundry treating apparatus, the crease removal module is formed at one side of a door headed for the treating chamber formed in a cabinet. Therefore, since laundry may be hung on the crease removal module in a state that the cabinet is opened, a problem occurs in that the crease removal module cannot be used while laundry is being treated in the treating chamber inside the cabinet. That is, a problem occurs in that the treating chamber inside the cabinet and the crease removal module cannot be operated individually.

(7) The crease removal module includes a base plate provided in a door and formed of one plate having an elastic force, supporting laundry, and a press plate rotated with the base plate by being coupled to the base plate and tightly attached to the base plate to pressurize the laundry.

(8) If the crease removal module is used, in a state that laundry is hung, a cycle chamber located below the cabinet may supply the hot air and at the same time pressurize the laundry to perform deodorization and wrinkle removal.

(9) In a state that laundry is unfolded inside the cabinet by self-load, the laundry treating apparatus may dry and deodorize the laundry or remove wrinkles of the laundry by supplying the hot air or moisture to the laundry. As the press plate presses the surface of the laundry, wrinkles may effectively be removed from the laundry or a crease (crease preset in laundry) may be formed on the laundry, whereby the need for ironing the laundry after washing or drying may be obviated.

(10) In the laundry treating apparatus of the related art, however, since there is no separate member between the press plate and the base plate, only one laundry item may be pressurized, whereby a problem occurs in that efficiency is reduced.

(11) Meanwhile, in the laundry treating apparatus of the related art, since the press plate presses a laundry item P while rotating from a side surface of the laundry item P, the laundry item P is

pressed sequentially from one side surface to the other side surface thereof.

(12) For this reason, a relatively high pressure is applied to a part of the laundry item P close to the press plate, whereas a relatively low pressure is applied to another part of the laundry item P far from the press plate. As a result, a problem occurs in that the laundry item P is not pressed uniformly.

(13) Moreover, while the laundry item P is being pressed by the press plate, a problem occurs in that the laundry item P is deformed or displaced by the press plate.

(14) Also, even though the laundry item P is held in the laundry treating apparatus of the related art, the laundry item P does not remain stationary, which may not be prevented from being displaced during pressing. Therefore, the laundry treating apparatus of the related art generates more creases than needed or an unintended crease on the laundry item P due to the press plate.

(15) In addition, when a laundry item has partitioned areas like pants, the laundry treating apparatus of the related art has a problem that it cannot press the partitioned areas respectively. For example, if the laundry item is provided with bottoms like pants in the laundry treating apparatus of the related art, a first part worn on a left leg of a user and a second part worn on a right leg of the user may be pressed by being overlapped with each other.

(16) Therefore, a problem occurs in that the first part and the second part may alternately be overlapped with each other or displaced when pressed, whereby a crease may occur in an unintended area of the laundry item.

(17) Also, since the hot air or moisture (including steam) is not supplied to an area where the first part and the second part face each other, a problem occurs in that refresh such as drying and deodorization is not performed actively.

#### SUMMARY

(18) A first object of the present disclosure is to provide a laundry treating apparatus that may remove a crease by pressing laundry regardless of an operation in a laundry treating space inside a cabinet.

(19) A second object of the present disclosure is to provide a laundry treating apparatus that may effectively remove a crease of laundry in a laundry treating space formed inside a door assembly provided separately from a cabinet.

(20) A third object of the present disclosure is to provide a laundry treating apparatus that treats a plurality of laundry items for a short time to remove a crease by pressurization.

(21) A fourth object of the present disclosure is to provide a laundry treating apparatus that may uniformly pressurize each partitioned area even though a laundry item has partitioned areas like pants.

(22) A fifth object of the present disclosure is to provide a laundry treating apparatus that may uniformly supply at least one of steam and hot air to each partitioned area of a laundry item.

(23) A sixth object of the present disclosure is to provide a laundry treating apparatus that may prevent a laundry item from being displaced when the laundry item is pressurized.

(24) A seventh object of the present disclosure is to provide a laundry treating apparatus that may exactly form a crease in a user's intended area.

(25) In addition to the objects of the present disclosure as mentioned above, additional objects and features of the present disclosure will be clearly understood by those skilled in the art from the following description of the present disclosure.

(26) To achieve the above objects, a laundry treating apparatus according to the embodiment of the present disclosure comprises a cabinet having an opening in a front direction, a door assembly opening or closing the opening, a first laundry treating chamber provided inside the cabinet to provide a space for accommodating laundry and communicated with the outside of the cabinet through the opening, and a machine chamber communicated with the first laundry treating chamber to arrange at least one of a steam supply unit supplying steam to the first laundry treating chamber and an air supply unit circulating the air, wherein the door assembly includes an assembly housing

opening or closing the opened front surface of the cabinet, opening or closing the opening, and forming a second laundry treating chamber removing a crease of the laundry by applying a pressure to inside, and an assembly door opening or closing the second laundry treating chamber in a front direction of the cabinet, and thus the second laundry treating chamber is formed inside the door assembly separately the inside of the cabinet and may be opened toward the outside of the cabinet through the assembly door. That is, the second laundry treating chamber may have a door in door type.

(27) Also, a base plate supporting the laundry arranged in the second laundry treating chamber is arranged at an inner side of any one of the assembly housing and the assembly door of the laundry treating apparatus according to the present disclosure, and a press plate tightly attached to the base plate to pressurize the laundry is arranged at an inner side of the other one of the assembly housing and the assembly door, whereby the laundry arranged in the second laundry treating chamber formed at the inner side of the door assembly may be treated.

(28) The laundry treating apparatus may further comprise a heating unit heating the press plate to apply heat to the laundry and remove a crease. In detail, the heating unit includes a press plate electric heater supplied with electricity from an external power source to generate heat, and the press plate electric heater may be arranged at an inner side of the press plate to apply heat to the laundry and remove a crease.

(29) The laundry treating apparatus according to the present disclosure may further comprise a cabinet hinge unit rotatably connecting the door assembly with the cabinet, an assembly hinge unit rotatably connecting the door assembly to the assembly housing, and a steam moving unit supplying steam generated from a steam generator to the second laundry treating chamber through the cabinet hinge unit and the assembly hinge unit or discharging the air of the second laundry treating chamber, whereby steam may be supplied to the second laundry treating chamber and thus the laundry may be treated.

(30) The laundry treating apparatus of the present disclosure may further comprise a connection pipe arranged inside the door assembly to connect the cabinet hinge unit with the assembly hinge unit, whereby steam may be moved to the second laundry treating chamber.

(31) In the laundry treating apparatus of the present disclosure, the connection pipe is inserted into an inner side of the assembly hinge unit, and is provided with a connection pipe hole opened to move steam at one side of a circumferential surface which is in contact with the assembly hinge unit, and the assembly hinge unit is provided with an assembly hinge unit hole opened to move steam at one side of a circumferential surface which is in contact with the connection pipe. The assembly hinge unit is rotated together with the assembly door to control steam supplied to the second laundry treating chamber by rotation of the assembly door.

(32) In the laundry treating apparatus of the present disclosure, the connection pipe hole and the assembly hinge unit hole are arranged in the same direction when the assembly door closes the second laundry treating chamber, whereby steam supplied to the second laundry treating chamber may be controlled by rotation of the assembly door.

(33) In the laundry treating apparatus of the present disclosure, the connection pipe hole and the assembly hinge unit hole are arranged in their respective directions different from each other when the assembly door opens the second laundry treating chamber, whereby steam supplied to the second laundry treating chamber may be controlled by rotation of the assembly door.

(34) The laundry treating apparatus of the present disclosure, the cabinet hinge unit includes a first cabinet hinge unit arranged at an upper end of the door assembly, and a second cabinet hinge unit arranged at a lower end of the door assembly, and the assembly hinge unit includes a first assembly hinge unit arranged at an upper portion of the assembly door and a second assembly hinge unit arranged at a lower portion of the assembly door. The steam moving unit includes a steam supply unit supplying steam generated from the steam generator to the second laundry treating chamber through the first cabinet hinge unit and the first assembly hinge unit, and a steam discharge unit

discharging the air inside the second laundry treating chamber to the first laundry treating chamber through the second cabinet hinge unit and the second assembly hinge unit, whereby steam may be supplied and discharged into the second laundry treating chamber to treat the laundry.

(35) The laundry treating apparatus of the present disclosure may further comprise a partition plate arranged between the assembly housing and the assembly door, pressurizing a pressure to each of a laundry item hung on the assembly housing and a laundry item hung on the assembly door, whereby a plurality of laundry items may be treated in the second laundry treating chamber.

(36) The partition plate includes a fixing protrusion fixing the partition plate to one side of the assembly housing or the assembly door or releasing such fixture, whereby a plurality of laundry items may be treated in the second laundry treating chamber.

(37) Also, a spaced distance from the assembly housing to the partition plate and a spaced distance from the partition plate to the assembly door are maintained at a certain interval when the assembly housing is fixed to the assembly door, a plurality of laundry items arranged in the second laundry treating chamber may be treated.

(38) In detail, a first fixing member fixing laundry and a first base plate tightly attached to the partition plate to pressurize the laundry fixed to the first fixing member are arranged at an inner side of the assembly housing, and a second fixing member fixing laundry and a second base plate tightly attached to the partition plate to pressurize the laundry fixed to the second fixing member are arranged at an inner side of the assembly door, whereby a plurality of laundry items may be hung in the door assembly.

(39) In another embodiment of the present disclosure, the door assembly further includes a support body supporting the laundry, a pressurizing body rotatably provided toward the support body to pressurize the laundry, and an ironing partition unit rotatably provided between the support body and the pressurizing body toward the support body or the pressurizing body to pressurize the laundry at both sides.

(40) The ironing partition unit includes an ironing partition body rotatably provided between the support body and the pressurizing body, and a heating unit provided in any one of both surfaces of the partition body to supply heat to the laundry.

(41) Also, the heating unit includes a heating body provided to be exposed to the outside in at least any one of both surfaces of the ironing partition body, and a hot wire provided in any one of the ironing partition body and the heating body to heat the heating body.

(42) Unlike this example, the heating unit includes a heating body provided to be exposed to the outside in at least any one of both surfaces of the ironing partition body, a supply path provided in any one of the ironing partition body and the heating body and thus supplied with steam, and a plurality of discharge holes provided to discharge the steam to the laundry by passing through the heating body.

(43) Meanwhile, the supply path further includes at least one spray path along a height direction of the ironing partition body, and the discharge holes may be provided along a length direction of the spray path.

(44) Particularly, the laundry treating apparatus may further comprise an auxiliary steam supply unit communicated with the steam generator of the machine chamber to discharge steam through the supply path and provided in any one of the cabinet, the machine chamber and the door assembly to generate steam. In this case, the supply path may be provided to communicate the auxiliary steam supply unit with the discharge holes.

(45) The auxiliary steam supply unit includes an auxiliary water tank detachably provided in at least any one of the cabinet, the machine chamber and the door assembly to accommodate water, an auxiliary heater heating water of the water tank to generate steam, and a discharge outlet discharging the steam by communicating the water tank with the supply path.

(46) Meanwhile, the ironing partition unit includes a heating body provided to be exposed to the outside in at least any one of both surfaces of the ironing partition body, a hot wire provided in any

one of the ironing partition body and the heating body to heat the heating body, and a supply path provided in any one of the ironing partition body and the heating body to supply steam, and the hot wire may be provided along the outside of the supply path and thus prevented from interfering with the supply path.

(47) Also, the door assembly may further include a connection hinge rotatably coupling the ironing partition unit with the support body, and a passage unit provided in the connection hinge to allow the hot wire or the supply path to pass therethrough.

(48) The ironing partition unit may be provided to be communicated with the machine chamber to discharge the hot air or moisture supplied from the machine chamber.

(49) Meanwhile, the door assembly may further include a coupling hook provided in the support body to fix the pressurizing body, and a hook coupling unit provided in the pressurizing body and fixed to the coupling hook, and may prevent the support body and the pressurizing body from being spaced apart from the ironing partition unit.

(50) The laundry treating apparatus may further comprise a hanging unit provided in at least any one of an upper portion and a lower portion of the ironing partition unit.

(51) In this case, the hanging unit may include a hanging body rotatably provided in at least any one of the upper portion and the lower portion of the ironing partition unit to support laundry, and a fixing body coupled to the hanging body to fix the laundry.

(52) In more detail, the hanging unit may include a first hanging unit rotatably provided at an upper portion of the pressurizing body to fix the laundry, and a second hanging unit rotatably provided at a lower portion of the pressurizing body to fix the laundry,

(53) the first hanging unit may include a first hanging body rotatably provided at the upper portion of the pressurizing body to support the laundry, and a first fixing body rotatably provided in the first hanging body to fix the laundry, and the second hanging unit may include a second hanging body rotatably provided at the lower portion of the pressurizing body to support the laundry, and a second fixing body rotatably provided in the second hanging body to fix the laundry.

(54) Also, the second hanging body may include a first through slit into which a first part of the laundry is inserted to pass therethrough, and the second fixing body may include a second through slit into which a second part of the laundry is inserted to pass therethrough. The first hanging body may include an accommodating groove having one curved surface to allow the laundry to be partially accommodated and supported.

(55) Meanwhile, the door assembly may further include an ironing partition unit rotatably provided between the support body and the pressurizing body, and the ironing partition unit may include a heating unit provided to supply heat to an ironing partition body and laundry.

(56) Also, the heating unit may include a heating body provided to be exposed to the outside in at least any one of both surfaces of the ironing partition body, and a hot wire provided in any one of the ironing partition body and the heating body to heat the heating body.

(57) Unlike this example, the heating unit may include a heating body provided to be exposed to the outside in at least any one of both surfaces of the ironing partition body, a supply path provided in any one of the ironing partition body and the heating body and thus supplied with steam, and a plurality of discharge holes provided to discharge the steam to the laundry by passing through the heating body.

(58) The supply path may further include at least one spray path along a height direction of the ironing partition body, and the discharge holes may be provided along a length direction of the spray path.

(59) Also, the laundry treating apparatus may further comprise an auxiliary steam supply unit provided in any one of the cabinet, the machine chamber and the door assembly to generate steam, wherein the supply path may be provided to be communicated with the auxiliary steam supply unit and the discharge holes.

(60) When the first base plate, the partition plate and the second base plate are provided at the inner



side of the assembly housing, the door assembly may further include an ironing partition unit that includes an ironing partition body rotatably provided between the base plate and the press plate and a heating unit provided in at least any one of both surfaces of the ironing partition body to supply heat to the laundry. That is, the door assembly may further include a first ironing partition unit including a first ironing partition body rotatably provided between the first base plate and the partition plate and a first heating unit provided in at least any one of both surfaces of the first ironing partition body to supply heat to the laundry, and a second ironing partition unit including a second ironing partition body rotatably provided between the partition plate and the second base plate and a second heating unit provided in at least any one of both surfaces of the second ironing partition body to supply heat to the laundry.

(61) Also, the first heating unit may include a first heating body provided to be exposed to the outside in at least any one of both surfaces of the first ironing partition body, and a first hot wire provided in any one of the first ironing partition body and the first heating body to heat the heating body, and the second heating unit may include a second heating body provided to be exposed to the outside in at least any one of both surfaces of the second ironing partition body, and a second hot wire provided in any one of the second ironing partition body and the second heating body to heat the heating body.

(62) The first ironing partition unit may further include a first supply path provided in any one of the first ironing partition body and the first heating body and supplied with steam, and a first discharge hole provided to discharge the steam to the laundry by passing through the first heating body, the second ironing partition unit may further include a second supply path provided in any one of the second ironing partition body and the second heating body and supplied with steam, and a second discharge hole provided to discharge the steam to the laundry by passing through the second heating body. Also, the first supply path and the second supply path further include at least one first spray path and at least one second spray path, each of which is provided along height directions of the first ironing partition body and the second ironing partition body, and the first discharge hole and the second discharge hole may be provided in a plural number along length directions of the first spray path and the second spray path.

(63) Also, the laundry treating apparatus may further comprise an auxiliary steam supply unit provided in any one of the cabinet, the machine chamber and the door assembly to generate steam, wherein the supply path may be provided to be communicated with the auxiliary steam supply unit, the first discharge hole and the second discharge hole.

(64) Details of the other embodiments are included in the detailed description and drawings.

(65) The laundry treating apparatus according to the present disclosure has one or more advantageous effects as follows.

(66) First of all, since the second laundry treating chamber formed in the door assembly may be opened or closed regardless of the fact that the cabinet is opened or closed, laundry of the second laundry treating chamber may be treated even in the middle of operation of the first laundry treating chamber.

(67) Secondly, the second laundry treating chamber may include a separate heating unit or additionally include a separate steam supply unit to supply heat to the second laundry treating chamber formed inside the door assembly, whereby a crease of laundry hung in the second laundry treating chamber may effectively be removed.

(68) Thirdly, a space inside the second laundry treating chamber may be partitioned and a partition plate pressurizing laundry may be provided at both sides to treat a plurality of laundry items, whereby the plurality of laundry items may be treated within a short time.

(69) Fourthly, the present disclosure provides a laundry treating apparatus that may uniformly pressurize laundry for each partitioned area even in the case that laundry has partitioned areas such as pants.

(70) Fifthly, the present disclosure provides a laundry treating apparatus that may uniformly supply

steam or hot air to each partition area of the laundry.

(71) Sixthly, the present disclosure provides a laundry treating apparatus that may pressurize a plurality of laundry items once.

(72) Seventhly, the present disclosure provides a laundry treating apparatus that may prevent a position of laundry from being changed while the laundry is being pressurized.

(73) Eighthly, the present disclosure provides a laundry treating apparatus that may skip separate ironing after a user finishes refresh of laundry, such as drying and deodorization.

(74) Ninthly, the present disclosure provides a laundry treating apparatus that may exactly form a crease in a user's intended area.

(75) Tenthly, the present disclosure may remove a crease by heating and pressurizing two sets of laundry items once by heating the two sets of laundry items or more and supplying steam to the laundry items using a hot wire at the same time.

(76) It will be appreciated by persons skilled in the art that that the effects that could be achieved with the present invention are not limited to what has been particularly described hereinabove and other advantages of the present invention will be more clearly understood from the following detailed description taken in conjunction with the accompanying drawings.

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## Description

### BRIEF DESCRIPTION OF THE DRAWINGS

(1) FIG. 1 illustrates the state that a door assembly of a laundry treating apparatus according to one embodiment of the present disclosure is opened.

(2) FIG. 2 illustrates the state that a cabinet of a laundry treating apparatus according to one embodiment of the present disclosure is opened.

(3) FIGS. 3A and 3B illustrate a brief section of an inner structure of a machine chamber according to one embodiment of the present disclosure.

(4) FIG. 4 illustrates an inner structure of a door assembly according to one embodiment of the present disclosure.

(5) FIG. 5 illustrates a steam circulating structure of a door assembly according to another embodiment of the present disclosure.

(6) FIGS. 6A and 6B relates to another embodiment of the present disclosure, FIG. 6A illustrates the state that an assembly door of a door assembly is closed, and FIG. 6B illustrates the state that an assembly door of a door assembly is opened.

(7) FIG. 7 illustrates a door assembly according to another embodiment of the present disclosure.

(8) FIG. 8 illustrates the state that a door assembly according to another embodiment of the present disclosure is closed.

(9) FIG. 9 illustrates the state that a door assembly according to another embodiment of the present disclosure is opened.

(10) FIG. 10 illustrates the state that a door assembly according to another embodiment of the present disclosure is opened and partition plates are spaced apart from each other.

(11) FIG. 11 illustrates an inner structure of a door assembly according to another embodiment of the present disclosure.

(12) FIG. 12 illustrates a structure of a laundry treating apparatus of the related art.

(13) FIG. 13 illustrates a structure of a laundry treating apparatus according to one embodiment of the present disclosure.

(14) FIG. 14 illustrates that a laundry item is held on an ironing pressurizer of the present disclosure.

(15) FIG. 15 illustrates one embodiment of a heating unit provided in in an ironing pressurizer of the present disclosure.

(16) FIG. **16** illustrates one embodiment of a path structure of a heating unit of the present disclosure.

(17) FIG. **17** illustrates one embodiment of a moisture supply structure of a heating unit of the present disclosure.

(18) FIGS. **18A** and **18B** illustrate a structure of a hanging unit for hanging a laundry item on an ironing pressurizer of the present disclosure.

(19) FIGS. **19A** to **19D** illustrate a procedure of hanging a laundry item on an ironing pressurizer and a hanging unit of the present disclosure.

(20) FIG. **20** illustrates arrangement of a base plate, a press plate and an ironing partition unit provided in a door assembly according to one embodiment of the present disclosure.

(21) FIG. **21** illustrates arrangement of a base plate, a press plate, a partition plate and a plurality of ironing partition units provided in a door assembly according to another embodiment of the present disclosure.

## DETAILED DESCRIPTION

(22) Advantages and features of the present disclosure and methods for achieving them will be made clear from the embodiments described below in detail with reference to the accompanying drawings. The present disclosure may however, be embodied in many different forms and should not be construed as being limited to the embodiments set forth herein. Rather, these embodiments are provided so that this disclosure will be thorough and complete, and will fully convey the scope of the invention to those skilled in the art. The present disclosure is defined only by the scope of the claims. Like reference numerals refer to like elements throughout the specification.

(23) The terms related to directions which are used herein, for example, “front(F)/rear(R)/left(Le)/right (Ri)/upper(U) and lower(D) directions” are defined as shown to definitely understand the present disclosure, however, should be understood that the respective directions may be defined otherwise depending on references.

(24) Also, wherever possible, the same reference numbers will be used throughout the drawings to refer to the same or like parts and their description will be replaced with the first description. The term of a singular expression in this specification should be understood to include a multiple expression as well as the singular expression if there is no specific definition in the context. Also, in description of the embodiment disclosed in this specification, if detailed description of elements or functions known in respect of the present disclosure is determined to make the subject matter of the present disclosure unnecessarily obscure, the detailed description will be omitted. Also, it is to be understood that the accompanying drawings are intended to easily understand the embodiment disclosed in this specification and technical spirits disclosed in this specification should not be restricted by the accompanying drawings.

(25) Hereinafter, the laundry treating apparatus according to the embodiments of the present disclosure will be described with reference to the drawings.

(26) FIG. **1** is a perspective view illustrating that a door assembly **100** of a laundry treating apparatus **1000** according to one embodiment of the present disclosure is opened. FIG. **2** is a perspective view illustrating that a cabinet of a laundry treating apparatus according to one embodiment of the present disclosure is opened. FIGS. **3A** and **3B** are schematic sectional views illustrating an inner structure of a machine chamber **20** according to one embodiment of the present disclosure. FIG. **4** is a view illustrating an inner structure of a door assembly **100** according to one embodiment of the present disclosure.

(27) Hereinafter, the laundry treating apparatus and the door assembly according to one embodiment of the present disclosure will be described with reference to FIGS. **1** to **4**.

(28) Referring to FIG. **2**, the laundry treating apparatus according to this embodiment includes a cabinet **10** having a hollow inner portion and an opened front surface, and a door assembly **100** opening or closing the opened front surface of the cabinet **10**.

(29) The cabinet **10** according to this embodiment includes a first laundry treating chamber **11** for

treating laundry through steam or air circulation by hanging laundry therein, and a machine chamber **20** provided with a unit for spraying steam to the first laundry treating chamber or circulating the air.

(30) A laundry support bar **16** for hanging laundry or allowing a hanger for hanging laundry to be hung thereon is arranged at an upper side of the first laundry treating chamber **11** according to this embodiment. The laundry supporting bar **16** may be provided as a moving hanger for moving laundry in a left and right direction within a predetermined distance.

(31) Referring to FIGS. **3A** and **3B**, the machine chamber **20** according to this embodiment may be provided to include at least one of an air supply unit **30** supplying the air (heated air or non-heated air) to an accommodating space **14** of the first laundry treating chamber **11** and a steam supply unit **40** supplying moisture (steam or mist) to the accommodating space **14**.

(32) To this end, the first treating chamber **11** may include an air discharge outlet **36** for discharging the air to the machine chamber **20**, an air suction inlet **37** supplied with the air from the machine chamber **20**, and a steam supply hole **42** supplied with moisture or steam from the machine chamber **20**.

(33) Since the machine chamber **20** generates the hot air having density relatively lower than the air, the machine chamber **20** may be provided below the first laundry treating chamber **11** to completely supply the hot air to the accommodating space **14**.

(34) The machine chamber **20** may be provided to include at least one of an air supply unit **30** for supplying the air (heated air or non-heated air) to the accommodating space **14** and a steam supply unit **40** for supplying moisture (steam or mist) to the accommodating space **14**.

(35) Hereinafter, for convenience of description, a description will be given based on that a supply unit includes both the air supply unit **30** and the moisture supply unit **40**, wherein the air supply unit **30** supplies the hot air to the accommodating space **14** and the steam supply unit **40** supplies steam to the accommodating space **14**.

(36) The air supply unit **30** may include a first laundry treating chamber supply pipe **24** circulating the air inside the accommodating space **14**, a heat exchanger **31** exchanging heat with the air moving along the first laundry treating chamber supply pipe **24**, and a ventilating fan **32** allowing the air inside the accommodating space **14** to move along the first laundry treating chamber supply pipe **24**.

(37) The first laundry treating chamber supply pipe **24** is communicated with the inside of the accommodating space **14** through the air discharge outlet **36** and the air suction inlet **37** provided in the accommodating space **14**.

(38) The air discharge outlet **25** and the air suction inlet **23** may be provided to pass through a bottom surface of the accommodating space **14** and provided to communicate the accommodating space **14** with the machine chamber **20**. Therefore, if one end of the first laundry treating chamber supply pipe **24** provided inside the machine chamber **20** is connected to the air suction inlet **23** and the other end of the first laundry treating chamber supply pipe **24** is connected to the air discharge outlet **25**, the first laundry treating chamber supply pipe **24** may be communicated with the inside of the accommodating space **14**.

(39) The heat exchanger **31** is a means for dehumidifying and heating the air entering the first laundry treating chamber supply pipe **24**, and FIG. **3A** illustrates a heat pump as an embodiment of the heat exchanger.

(40) If the heat exchanger is provided as a heat pump, the heat exchanger **31** may include an evaporator E **311** provided inside the first laundry treating chamber supply pipe **24**, a condenser C **312** arranged inside the first laundry treating chamber supply pipe **24**, and a compressor P **33** and an expansion valve Ex **34** arranged outside the first laundry treating chamber supply pipe **24**.

(41) The evaporator E, the compressor P, the condenser C and the expansion valve Ex are connected with one another through a refrigerant pipe **35**.

(42) The compressor P is a means for compressing a refrigerant at high pressure to allow the

refrigerant to circulate along the refrigerant pipe **35**, the evaporator E is a means for evaporating the refrigerant by absorbing heat from the air inside the first laundry treating chamber supply pipe **24** and is also a means for dehumidifying and cooling the air, and the condenser C is a means for heating the air and condensing the refrigerant by emitting heat through the air inside the first laundry treating chamber supply pipe **24**.

(43) The ventilating fan **32** is a means arranged inside the first laundry treating chamber supply pipe **24**, allowing the air inside the accommodating space **14** to circulate through the first laundry treating chamber supply pipe **24**, and is arranged between the condenser C and the air discharge outlet **36**.

(44) Therefore, if the ventilating fan **32** is operated, the air inside the first laundry treating chamber supply pipe **24** moves to the accommodating space **14** through the air discharge outlet **36**, and the air inside the accommodating space **14** moves to the first laundry treating chamber supply pipe **24** through the air suction inlet **37**.

(45) The air entering the first laundry treating chamber supply pipe **24** through the air suction inlet **23** is cooled by passing through the evaporator E, and the air that has passed through the evaporator E is heated by passing through the condenser C.

(46) If the air is cooled by passing through the evaporator E, moisture contained in the air is removed (dehumidified), and moisture (condensed water) removed from the air remains on a surface of the evaporator or inside the first laundry treating chamber supply pipe.

(47) If the condensed water remains inside the first laundry treating chamber supply pipe **24**, since heat exchange efficiency of the heat exchanger **31** is deteriorated, the present disclosure may further include a drainage unit for removing condensed water generated by the evaporator E.

(48) A water collecting pipe **37** collecting condensed water generated by heat exchange with the evaporator E may be arranged at one side of the first laundry treating chamber supply pipe **24** according to this embodiment. The condensed water collected in the water collecting pipe **37** may move to the drainage unit.

(49) The drainage unit may include a drainage tank **47** detachably provided in a machine chamber door **22**, and a drainage pipe **477** and a drainage pump **479** supplying the condensed water inside the first laundry treating chamber supply pipe **24** to the drainage tank **47**.

(50) The drainage tank **47** may be provided in any shape that may provide a space where liquid may be stored. However, the drainage tank **47** is preferably provided to include a drainage tank lid **471** for discharging liquid stored in the drainage tank, and a drainage tank inlet **473** detachably connected with the drainage pipe **477**.

(51) The drainage tank inlet **473** may further include a check valve (not shown), and this is allow the drainage pipe **477** to be detached from the drainage tank inlet **473** if the machine chamber door **22** opens the machine chamber **20** and allow the drainage pipe **477** to be inserted into the drainage tank inlet **473** if the machine chamber door **22** closes the machine chamber **20**. Also, when the drainage tank is detached from the machine chamber door, water inside the drainage tank may be prevented from being leaked to the outside of the drainage tank.

(52) Meanwhile, as shown in FIG. 3B, the steam supply unit **40** may include a steam generator **41** provided inside the chamber **20**, a heater **411** provided inside the steam generator **41**, and a steam supply pipe **417** connecting the steam generator **41** to the steam supply hole **42**.

(53) The steam generator **41** is a means where water is stored, the heater **411** is a means for heating water stored in the steam generator **41** and converting the heated water to steam, and the steam supply pipe **417** is a means for guiding steam inside the steam generator **41** to the accommodating space **14**.

(54) Therefore, the heater **411** is preferably provided to adjoin a bottom surface of the steam generator **41**, and the steam supply pipe **417** is preferably arranged on an upper surface (or uppermost end) of the steam generator **41**.

(55) The steam generator **41** may be supplied with water through a water supply unit, and the water

supply unit may be provided as a water supply tank **45** detachably provided in the machine chamber door **22**.

(56) In this case, the steam generator **41** may be provided to further include a water supply tank connection pipe **413** connected to the water supply tank **45** if the machine chamber door **22** closes the machine chamber **20** and detached from the water supply tank **45** if the machine chamber door **22** opens the machine chamber **20**.

(57) The water supply tank **45** may be provided in any shape that may store liquid but is provided to include a water supply tank lid **451** for supplying liquid into the water supply tank **45**, a discharge outlet (not shown) into which the water supply tank connection pipe **413** is inserted, and a water supply tank check valve **455** provided in the discharge outlet.

(58) The water supply tank **45** is detachably provided in the machine chamber door **22** considering that the laundry treating apparatus **1000** of the present disclosure is provided at a place far away from a water supply source (not shown).

(59) Also, the water supply tank **45** and the drainage tank **47** may be provided as one storage tank without being provided separately from each other. In this case, the condensed water stored in the storage tank may be reused, or may directly be discharged to the outside without being stored in the storage tank through the drainage pipe **477**.

(60) That is, if the laundry treating apparatus **1000** is provided to adjoin the water supply source, the steam generator **41** may be controlled to be supplied with water from the water supply source if necessary. However, if the laundry treating apparatus **1000** is provided to be far away from the water supply source, the steam generator **41** cannot be controlled as above. The water supply tank **45** is a means for solving this problem.

(61) Referring to FIGS. **1** and **4**, the door assembly **100** according to this embodiment forms a second laundry treating chamber **12**, which may remove wrinkles by pressurizing laundry, therein. The door assembly door **130** according to this embodiment may be arranged in a front direction F of the door assembly **100** to open or close the second laundry treating chamber **12** formed inside the door assembly **100**, in the front direction F.

(62) The door assembly **100** according to this embodiment includes an assembly housing **110** opening or closing the opened front surface of the cabinet **10** and forming an inner space therein to treat laundry, and an assembly door **130** opening or closing the inner space formed by the assembly housing **110**.

(63) The second laundry treating chamber **12** is arranged inside the door assembly **100**. The second laundry treating chamber **12** may have a shape opened toward a front direction from the door assembly **100**, and may be disconnected from the outside by the assembly door **130**. The assembly door **130** may serve as a door that opens or closes the inner space of the second laundry treating chamber **12**. Therefore, the second laundry treating chamber **12** may only be opened or closed by the assembly door **130** even without opening or closing the first laundry treating chamber **11** through the assembly housing **110**. This is referred to as a door in door type.

(64) The second laundry treating chamber **12** removes wrinkles of laundry arranged therein by applying a pressure to the laundry. In the second laundry treating chamber **12**, the laundry is arranged between an inner side **111a** of the assembly housing **110** and an inner side **131** of the assembly door **130**.

(65) A fixed member **114** fixing laundry to hang the laundry to a downward side D, a base plate **113** supporting the laundry arranged therein and a press plate **132** tightly attached to the base plate **113**, pressurizing the laundry arranged between the base plate and the press plate **132** are arranged in the second laundry treating chamber **12**. A tension bar **134** longitudinally protruded in an up and down direction U-D may be formed to be protruded at the center of the press plate **132** according to this embodiment. The tension bar **134** may apply tension to the laundry arranged between the press plate **132** and the base plate **113** toward the base plate **113**, whereby tension may be applied to both sides of the laundry.

(66) The fixed member **114** may be arranged in any one of the assembly housing **110** and the assembly door **130**. The base plate **113** may be arranged at the inner side **111a** of the assembly housing **110** or the inner side **131** of the assembly door **130**, and the press plate **132** may be arranged in the assembly housing **110** or the assembly door **130**, which is not arranged in the base plate **113**.

(67) Referring to FIGS. **1** and **4**, the fixed member **114** and the base plate **113** are arranged in the assembly housing **110** of the door assembly **100** of the laundry treating apparatus **10** according to this embodiment, and the press plate **132** is arranged in the assembly door **130**. Also, in the assembly door **130**, a fixed member groove **139** may be formed at a portion corresponding to the fixed member **114** protruded from the inner side of the assembly housing **110**. This will be described with reference to FIGS. **1** and **4**. However, this is only exemplary, and different arrangements may be made within the range that may fix and pressurize the laundry.

(68) The assembly housing **110** according to this embodiment forms an external appearance of the door assembly **100**. The assembly housing **110** according to this embodiment is provided with the second laundry treating chamber **12** therein, wherein the second laundry treating chamber **12** is a space where the laundry is pressurized and treated. The assembly housing **110** according to this embodiment forms the second laundry treating chamber **12** therein, and the front surface of the second laundry treating chamber **12** is opened.

(69) The assembly housing **110** according to this embodiment is rotatably connected at one side of the cabinet **10**. One side of an upper end of the assembly housing **110** according to this embodiment and one side of a lower end of the assembly housing **110** may be fixed to the cabinet **10** by a hinge.

(70) Referring to FIG. **2**, in a state that the assembly housing **110** closes the front surface of the cabinet **10**, a rear surface **112** of the assembly housing **110** is arranged toward the first laundry treating chamber **11** of the cabinet **10**. A door gasket **122** for sealing the outside of the cabinet **10** and the first laundry treating chamber **11** in a state that the front surface of the cabinet **10** is closed may be arranged in the rear surface **122** of the assembly housing **110**.

(71) In the laundry treating apparatus **10** according to this embodiment, in a state that the assembly housing **110** closes the front surface of the cabinet **10**, the front surface **111** of the assembly housing **110** is arranged toward the front direction of the cabinet **10**. A portion of the front surface **111** of the assembly housing **110** according to this embodiment may be formed to be recessed toward a rear direction to become the inner side **111a** of the assembly housing **110**, and at the same time may form the inner side **111a** of the second laundry treating chamber **12**.

(72) In the door assembly **100** according to this embodiment, in a state that the assembly door **130** is closed in the assembly housing **110**, a surface arranged in the space for forming the second laundry treating chamber **12** may be defined as the inner side. Also, in the door assembly **100** according to this embodiment, in a state that the assembly door **130** is closed in the assembly housing **110**, a surface forming an external appearance of the door assembly **100** may be defined as an outer side. Therefore, even in case of the front surface of the assembly housing **110**, the surface forming the external appearance of the door assembly **100** may be defined as the outer side.

(73) The assembly housing **110** according to this embodiment forms the second laundry treating chamber **12** therein, in which laundry is treated. The fixed member **114** for fixing laundry to the inner side **111a** where the second laundry treating chamber **12** is formed and the base plate **113** for pressurizing the laundry fixed to the fixed member **114** together with the assembly door **130** are arranged in the assembly housing **110** according to this embodiment.

(74) The base plate **113** includes a base fixed plate **1131** fixed to the assembly housing **110**, and base elastic plates **1132** and **1133** formed to be extended from the base fixed plate **1131** and formed to be more spaced apart from the inner side **111a** of the assembly housing **110** than the base plate **1131**, providing an elastic force to laundry.

(75) In this embodiment, the base fixed plate **1131** is formed to be longitudinally extended from the

inner side **111a** of the assembly housing **110** in an up and down direction, and its upper and lower sides are fastened to the assembly housing **110** by a fastening member. Therefore, the base fixed plate **1131** may maintain the state coupled to the inner side of the assembly housing **110**. The base fixed plate **1131** may be provided with a base fixed plate hole **117** formed in a space between portions fastened to the assembly housing **110** at upper and lower sides. The portion for pressurizing laundry in the base plate **113** is formed in the base elastic plates **1132** and **1133**.

(76) The base elastic plates **1132** and **1133** may be divided into the base elastic right plate **1182** and the base elastic left plate **1183**, which are formed to be respectively extended from the base fixed plate **1131** in left and right directions.

(77) The base elastic right plate **1182** and the base elastic left plate **1183** may elastically be deformed toward the inner side **111a** of the assembly housing **110** by material elasticity.

(78) Therefore, when the base plate **113** is pressurized by the press plate **132** of the assembly door **130**, the base elastic plates **1132** and **1133** of the base plate **113** may be spaced apart from each other toward the inner side **11a** of the assembly housing **110** and tightly attached to the assembly door **130**.

(79) The assembly door **130** according to this embodiment is arranged on the front surface **111** of the assembly housing **110**. The assembly door **130** according to this embodiment is rotatably connected at one side of the assembly housing **110**. The assembly door **130** according to this embodiment opens or closes the second laundry treating chamber **12**.

(80) The press plate **132** for pressurizing the laundry hung in the second laundry treating chamber **12** together with the base plate **113** is arranged on the inner side **131** of the assembly door **130** according to this embodiment. The press plate **132** according to this embodiment is arranged in the assembly door **130** of the portion corresponding to the base plate **113**.

(81) A heating unit **136** for heating the press plate **132** may be arranged inside the assembly door **130** provided with the press plate **132** according to this embodiment. The heating unit **136** according to this embodiment may include a press plate electric heater **138** generating heat through electricity supplied from an external power source. The press plate electric heater **138** may be arranged inside the press plate **132** to emit heat to the press plate **132**. Therefore, wrinkles existing in the laundry pressurized by the base plate **113** and the press plate **132** may be removed using heat generated from the press plate **132**.

(82) FIG. 5 is a view illustrating a steam circulating structure of a door assembly **100** according to another embodiment of the present disclosure. FIGS. 6A and 6B are views illustrating a hinge unit through which steam of a door assembly according to another embodiment of the present disclosure moves.

(83) Hereinafter, a structure for moving steam to the inside of the door assembly **100** according to this embodiment will be described with reference to FIGS. 5 to 6B.

(84) Referring to FIG. 5, the laundry treating apparatus **10** according to another embodiment of the present disclosure may further include door steam supply units **144a**, **146a** and **148a** supplying steam to the second laundry treating chamber **12** formed inside the door assembly **100**. The laundry treating apparatus **10** according to this embodiment may further include door steam discharge units **144b**, **146b** and **148b** discharging steam moving inside the door assembly **100**.

(85) The door steam supply units **144a**, **146a** and **148a** according to this embodiment may partially supply steam generated from the steam supply unit **40** arranged inside the machine chamber **20** to the second laundry treating chamber **12** inside the door assembly **100**.

(86) The door assembly **100** according to this embodiment is rotatably connected to the cabinet **10**. The laundry treating apparatus **10** according to this embodiment further includes a cabinet hinge unit **144** rotatably connecting the door assembly **100** to the cabinet **10**. The cabinet hinge unit **144** according to this embodiment may rotatably connect the door assembly **100** with the cabinet **10** at upper and lower ends of the door assembly **100**.

(87) The cabinet hinge unit **144** according to this embodiment includes a first cabinet hinge unit



**144a** arranged at the upper end of the door assembly **100**, and a second cabinet hinge unit **144b** arranged at the lower end of the door assembly **100**. Each of the first and second cabinet hinge units **144a** and **144b** according to this embodiment may be provided with a hollow inner portion. Therefore, steam may move inside the first and second cabinet hinge units **144a** and **144b**, or each of the first and second cabinet hinge units **144a** and **144b** may be provided with a hose in which steam moves.

(88) The assembly door **130** of the door assembly **100** according to this embodiment is rotatably connected to the assembly housing **110**. The door assembly **100** according to this embodiment further includes an assembly hinge unit **146** rotatably connecting the assembly door **130** to the assembly housing **110**. The assembly hinge unit **146** according to this embodiment rotatably connects the assembly door **130** with the assembly housing **110** at the upper and lower ends of the assembly door **130**.

(89) The assembly hinge unit **146** according to this embodiment includes a first assembly hinge unit **146a** arranged at an upper portion of the assembly door **130**, and a second assembly hinge unit **146b** arranged below the assembly door **130**. Each of the first and second assembly hinge units **146a** and **146b** according to this embodiment may be provided with a hollow inner portion. Therefore, steam may move inside the first and second assembly hinge units **146a** and **146b**, or each of the first and second assembly hinge units **146a** and **146b** may be provided with a hose in which steam moves.

(90) A connection pipe **148** according to this embodiment may include a first connection pipe **148a** connecting the first cabinet hinge unit **144a** with the first assembly hinge unit **146a**, and a second connection pipe **148b** connecting the second cabinet hinge unit **144b** with the second assembly hinge unit **146b**.

(91) Steam generated from the steam generator **44** of the machine chamber **20** may move inside the connection pipe **148** according to this embodiment, or the connection pipe **148** may be provided with a hose in which steam moves.

(92) The steam supply unit **140** according to this embodiment may include a first connection pipe **148a** connecting the first cabinet hinge unit **144a** with the first assembly hinge unit **146a**. The door steam discharge units **144b**, **146b** and **148b** according to this embodiment may include a second connection pipe **148b** connecting the second cabinet hinge unit **144b** with the second assembly hinge unit **146b**.

(93) Referring to FIGS. **6A** and **6B**, the connection pipe **148** according to this embodiment may be inserted into the inner side of the assembly hinge unit **146**. The connection pipe **148** according to this embodiment may be provided with a connection pipe hole **149** opened to move steam at a portion which is in contact with the assembly hinge unit **146**. The connection pipe **148** is fixedly arranged at the inner side of the assembly hinge unit **146**. Therefore, even though the assembly hinge unit **146** is rotated, arrangement of the connection pipe **148** is not changed.

(94) The assembly hinge unit **146** according to this embodiment may be arranged at an outer circumference of the connection pipe **148**. The assembly hinge unit **146** according to this embodiment is fixedly connected with the assembly door **130**. Therefore, the assembly hinge unit **146** may be rotated together with the assembly door **130** in accordance with rotation of the assembly door **130**. The assembly hinge unit **146** according to this embodiment is provided with an assembly hinge unit hole **147** communicating the inside of the connection pipe **148** with the second laundry treating chamber **12**.

(95) When the assembly hinge unit hole **147** according to this embodiment is arranged in the same direction as the connection pipe hole **149**, steam moving inside the connection pipe **148** may be supplied to the second laundry treating chamber **12**, or steam moving inside the second laundry treating chamber **12** may move to the connection pipe **148**.

(96) The door assembly **100** according to this embodiment may communicate the connection pipe **148** with the second laundry treating chamber **12** when the assembly door **130** closes the second

laundry treating chamber **12**. The door assembly **100** according to this embodiment may be configured so as not to communicate the connection pipe **148** with the second laundry treating chamber **12** when the assembly door **130** opens the second laundry treating chamber **12**.

(97) That is, referring to FIG. **6A**, in the door assembly **100** according to this embodiment, when the assembly door **130** closes the second laundry treating chamber **12**, the assembly hinge unit hole **147** may be arranged in the same direction as the connection pipe hole **149**. Also, in the door assembly **100** according to this embodiment, when the assembly door **130** opens the second laundry treating chamber **12**, the assembly hinge unit hole **147** and the connection pipe hole **149** may be arranged in their respective directions different from each other.

(98) FIG. **7** is a perspective view illustrating a door assembly according to another embodiment of the present disclosure. FIGS. **8** to **10** are views illustrating a structure and a switching structure of a door assembly according to another embodiment of the present disclosure. FIG. **11** is a view illustrating an inner structure of a door assembly according to another embodiment of the present disclosure.

(99) Hereinafter, a structure of the door assembly according to this embodiment will be described with reference to FIGS. **6A** to **10**.

(100) Referring to FIG. **7**, in the door assembly **100** of the laundry treating apparatus **1000** according to another embodiment of the present disclosure, a partition plate **160** may be arranged between the assembly housing **110** and the assembly door **130** to remove wrinkles by pressurizing at least two laundry items. Therefore, a plurality of laundry items may simultaneously be pressurized by the partition plate.

(101) A first fixing member **1141** fixing laundry and a first base plate **115** pressurizing the laundry fixed to the assembly housing **110** together with the partition plate **160** are arranged at the inner side **111a** of the assembly housing **110** according to this embodiment.

(102) The first base plate **115** includes a first base fixed plate **116** fixed to the assembly housing **110**, and first base elastic plates **116a** and **116b** formed to be extended from the first base fixed plate **116** and formed to be more spaced apart from the inner side **111a** of the assembly housing **110** than the first base fixed plate **116**, providing an elastic force to laundry.

(103) A second fixing member **1341** fixing laundry and a second base plate **135** pressurizing the laundry fixed to the assembly door **130** together with the partition plate **160** are arranged at the inner side **131** of the assembly door **130** according to this embodiment.

(104) The second base plate **135** includes a second base fixed plate **136** fixed to the assembly door **130**, and second base elastic plates **136a** and **136b** formed to be extended from the second base fixed plate **136** and formed to be more spaced apart from the inner side **131** of the assembly door **130** than the second base fixed plate **136**, providing an elastic force to laundry.

(105) The partition plate **160** is hinge-fixed to one side of the assembly door **130** or the assembly housing **110**. Referring to FIG. **10**, the partition plate **160** according to this embodiment is hinge-fixed to one side of the assembly door **130**. The partition plate **160** according to this embodiment is rotatably fixed to the assembly door **130** at one side and detachably fixed to the assembly door **130** at the other side. When the partition plate **160** according to this embodiment is fixed to the assembly door **130** at the other side, the partition plate **160** may be spaced apart from the assembly door **130**.

(106) The partition plate **160** according to this embodiment includes a partition plate-hinge unit **162** rotatably fixed to the assembly door **130**, and a fixing protrusion **164** fixing the partition plate **160** to one side of the assembly door **130** as the partition plate is rotated using the partition plate-hinge unit **162** as a shaft, or releasing fixture. The fixing protrusion **164** may be fixed to one side of the assembly door **130** according to this embodiment, or the assembly door **130** may include a fixing groove unit **166** configured to release fixture.

(107) The fixing protrusion **164** of the partition plate **160** according to this embodiment and the fixing groove unit **166** of the assembly door **130** may be one-touch click buttons. Therefore, if the

fixing protrusion **164** of the partition plate **160** is pressurized toward the assembly door **130**, the partition plate **160** may be fixed to the assembly door **130**, or its fixture may be released.

(108) The fixing protrusion **164** may be spaced apart from the assembly door by fixing the partition plate **160** to the assembly door **130**, thereby pressurizing the laundry hung on the assembly door **130**. The fixing protrusion **164** may hang laundry on the assembly door **130** or remove the laundry from the assembly door **130** by releasing the fixture of the partition plate **160** from the assembly door **130**.

(109) The assembly housing **110** and the assembly door **130** according to this embodiment are spaced apart from each other at a certain interval. The assembly housing **110**, the partition plate **160** and the assembly door **130** according to this embodiment are spaced apart from one another each other at a certain interval. In a state that the second laundry treating chamber **12** is closed, a spaced distance **D1** from the first base elastic plates **116a** and **116b** of the assembly housing **110** to the partition plate **160** may be equal to a spaced distance **D2** from the partition plate **160** to the second base elastic plates **136a** and **136b** of the assembly door **130**. In a state that the second laundry treating chamber **12** is closed, the spaced distance **D1** from the first base elastic plates **116a** and **116b** of the assembly housing **110** to the partition plate **160** and the spaced distance **D2** from the partition plate **160** to the second base elastic plates **136a** and **136b** of the assembly door **130** include a state of '0'. That is, in a state that the second laundry treating chamber **12** is closed, each of the first base elastic plates **116a** and **116b** of the assembly housing **110** and the second base elastic plates **136a** and **136b** of the assembly door **130** may be tightly attached to the partition plate **160**.

(110) However, in a state that the second laundry treating chamber **12** is closed, the spaced distance **D1** from the first base elastic plates **116a** and **116b** of the assembly housing **110** to the partition plate **160** and the spaced distance **D2** from the partition plate **160** to the second base elastic plates **136a** and **136b** of the assembly door **130** may be set at their respective intervals different from each other considering types of laundry items hung in the second laundry treating chamber **12**.

(111) In a state that the second laundry treating chamber **12** is closed, the first base elastic plates **116a** and **116b** of the first base plate **115** and the second base elastic plates **136a** and **136b** of the second base plate **135** may be arranged to contact or adjoin the partition plate **160**. In a state that the second laundry treating chamber **12** is closed, when laundry is hung in the assembly housing **110**, the first base elastic plates **116a** and **116b** may move to the assembly housing **110** by the laundry hung in the assembly housing **110**. In a state that the second laundry treating chamber **12** is closed, when laundry is hung in the assembly door **130**, the second base elastic plates **136a** and **136b** may move to the assembly door **130** by the laundry hung in the assembly door **130**.

(112) If the fixing protrusion **164** of the partition plate **160** is fixed to the fixed groove unit **166** of the assembly door **130**, the laundry hung in the assembly door **130** may be pressurized by the partition plate **160** and the second base plate **135** of the assembly door **130**. In a state that the partition plate **160** is fixed to the assembly door **130**, if the assembly door **130** is fixed to the assembly housing **110**, the laundry hung in the assembly housing **110** may be pressurized by the partition plate **160** and the first base plate **115** of the assembly housing **110**.

(113) FIG. **12** illustrates a structure of a laundry treating apparatus of the related art.

(114) The laundry treating apparatus of the related art includes auxiliary hangers **521** and **522** provided inside the door to fix the laundry, and a pressurizer **60** provided below the auxiliary hanger **50**. The auxiliary hanger **50** includes a hanger **522**, a hook unit **521** provided in the door to fix the hanger **522**, and the pressurizer **60** includes a support unit **65** supporting one surface of the laundry, a pressurizing unit **66** rotatably provided toward the support unit **65** to pressurize the other surface of the laundry, and a stabilizer **67** provided below the pressurizing unit **66** to prevent torsion of the laundry from occurring.

(115) However, since the pressurizing unit **66** pressurizes the laundry while rotating, a problem occurs in that the laundry is not pressurized uniformly. A problem also occurs in that the laundry

item P is twisted or displaced by being pushed by the pressurizer **65** while the pressurizer **60** is pressurizing the laundry item P. That is, the laundry treating apparatus of the related art has a problem in that more wrinkles of the laundry item P are generated due to the pressurizer **65** or unintended wrinkles are generated.

(116) Also, when the laundry item is provided with bottoms divided into areas, the laundry treating apparatus of the related art has a problem in that the divided areas cannot be pressurized respectively. For example, when the laundry item is provided with bottoms such as pants, in the laundry treating apparatus of the related art, a first part worn on a left leg of a user and a second part worn on a right leg of the user are pressurized by being overlapped with each other.

(117) Therefore, the first part and the second part are alternately overlapped with each other while the first part and the second part are being pressurized, or a problem occurs in that a crease occurs in an unintended area of the laundry.

(118) Also, since the hot air or moisture (including steam) is not supplied to the area where the first part faces the second part, a problem occurs in that refresh such as drying and deodorization is not performed actively.

(119) Referring to FIG. **13**, to solve the aforementioned problems, the laundry treating apparatus **1000** according to one embodiment of the present disclosure includes a cabinet **10** having an opening in a front direction, a door assembly **100** rotatably provided in the cabinet **10** to open or close the opening, a first laundry treating chamber **11** provided in the cabinet **10**, providing an accommodating space **14** in which the laundry item P is accommodated, a machine chamber **20** communicated with the first laundry treating chamber **11** and provided to supply at least any one of the air and moisture to the accommodating space **14**, and an ironing pressurizer **60** provided in at least any one of the first laundry treating chamber **11** and the door assembly **100** to pressurize the laundry item. FIG. **11** illustrates the case that the ironing pressurizer is provided in the door assembly, but the ironing pressurizer may be provided in the first laundry treating chamber not the door assembly. In this case, the case that the ironing pressurizer is provided in the door assembly will be described.

(120) The cabinet **10** is provided to form an external appearance of the laundry treating apparatus **1000**, and its height may be provided to be longer than its width. As a result, the laundry item P provided to have a long length like pants may be accommodated in the accommodating space **14** without being folded, whereby a crease may be prevented from occurring in the laundry item P.

(121) The cabinet **10** may be made of a metal material, and may be made of a resin material such as reinforcing plastic if strength may be maintained.

(122) The first laundry treating chamber **11** may further include an inner body **11a** arranged inside the cabinet **10** to form the accommodating space **14**. The inner body **11a** may be made of particles discharged from the laundry item P, or may be made of a material that may be deformed by the hot-air or moisture supplied from the machine chamber **20** or may maintain strength without a chemical reaction. For example, the inner body **11a** may be made of a styrene resin such as ABS and ASA.

(123) The inner body **11a** may be provided at one surface or a lower side to be communicated with the machine chamber **20** to be supplied with the hot air or moisture from the machine chamber **20**, or may be provided to discharge the air to the machine chamber **20**. To this end, the inner body **11a** may include a plurality of through holes **36**, **37** and **42** communicated with the machine chamber **20**.

(124) Meanwhile, the cabinet may further include a machine chamber **20** detached from the accommodating space **14**. The machine chamber **20** may be provided below the accommodating space **14** to supply the heated air having a density relatively lower than the air or steam.

(125) That is, when the air supplied to the accommodating space **14** by the machine chamber **20** is the heated art (hot air) and moisture supplied to the accommodating space **14** by the machine chamber **20** is steam, the hot air or stem may uniformly be supplied into the accommodating space **14** even without a separate ventilating unit if the machine chamber **20** is arranged below the

accommodating space **14**.

(126) Meanwhile, the door assembly **100** in various embodiments described in FIGS. **13** to **19D** has a plane shape having no second laundry treating chamber **12** unlike the door assembly **100** described in FIGS. **1** to **11** and is intended to open or close the opening. That is, the door assembly **100** may be provided to be rotatably coupled to the cabinet **10**, thereby opening or closing the opening. The door assembly **100** may be provided to shield the front of the machine chamber **20** as well as the inner body **11a**. As a result, the hot air or moisture supplied to the accommodating space **14** may be prevented from being discharged to the outside, and heat generated in the machine chamber **20** may be prevented from being transferred to the outside.

(127) Since the door assembly **100** is provided to open or close the front of the inner body **11a**, an inner circumferential surface of the inner body **11a** and an inner surface of the door assembly **100** may form an outer circumferential surface of the accommodating space **14**.

(128) The ironing pressurizer **60** may be provided to remove wrinkles generated in the laundry item P by pressurizing the laundry item at both surfaces or form a crease intended by a user in the laundry item P. Although the ironing pressurizer is provided in the door assembly, the ironing pressurizer may be provided in the first laundry treating chamber not the door assembly. In this case, the case that the ironing pressurizer is provided in the door assembly will be described. Therefore, the door assembly includes the ironing pressurizer.

(129) In other words, the ironing pressurizer **60** serves to perform ironing and thus allows a user not to need to additionally perform separate ironing after drying and deodorization of the laundry item P end.

(130) The laundry item P including top and bottoms required for ironing may be pressurized by the ironing pressurizer **60**.

(131) In detail, the ironing pressurizer **60** may include a support body **61** provided in any one of the first laundry treating chamber **11** and the door assembly **100** to support the laundry item, and a pressurizing body **62** rotatably provided toward the support body **61** to pressurize the laundry item supported by the support body **61**.

(132) Although FIG. **13** illustrates that the support body **61** is provided on an inner surface of the door assembly **100**, as described above, the support body **61** may be provided on an inner surface of the inner body **11a** if it may support one surface of the laundry item.

(133) When one surface of the laundry item is pressurized by the pressurizing body **62**, the support body **61** may be provided in a plate shape such that its shape may not be deformed. In detail, the support body **61** may include a ground plate **612** provided to be in surface-contact with the laundry item P, and may further include a fixed groove **611** provided to be recessed from the ground plate **612** along a length direction to avoid a sewing line provided in the laundry item P or concentrate a pressurized force on both ends of the laundry item P.

(134) Therefore, if the pressurizing body **62** pressurizes the support body **61**, a pressure may be concentrated on the ground plate **612**, whereby wrinkles of the laundry item P may effectively be removed and a crease may clearly be formed on both ends of the laundry item P. Moreover, an unintended crease may be prevented from being formed in the laundry item P due to the sewing line.

(135) The pressurizing body **62** may rotatably be coupled to the support body **61**, and may rotatably be coupled to the inner surface of the inner body **11a** provided with the support body **61** or the inner surface of the door assembly. That is, the pressurizing body **62** may be provided in any place if it is rotated toward the support body **61** or rotated to be far away from the support body **61**.

(136) The pressurizing body **62** may rotatably be provided by a connection hinge **80** provided in at least any one of the inner body **11a**, the door assembly **100** and one side of the support body **61**.

(137) That is, the connection hinge **80** may be provided in the support body **61**, or may be provided in the inner body **11a** provided with the support body **61** or the inner surface of the door assembly **100**.

(138) The connection hinge **80** may include a first connection hinge **81** rotatably supporting the pressurizing body **62**, and a second connection hinge **82** provided below the first connection hinge **81** to rotatably support the pressurizing body.

(139) The pressurizing body **62** may further include a pressurizing plate **622** rotatably provided toward the support body **61**, and a curvature groove **621** provided to be recessed a length direction of the pressurizing plate **622** to avoid a sewing line provided in the laundry item P or concentrate a pressurized force on both ends of the laundry item P.

(140) Therefore, the pressurizing body **62** may be rotated toward the support body **61** to pressurize one surface of the laundry item P, and the support body **61** may pressurize the other surface of the laundry item P by action/counteraction.

(141) Meanwhile, the ironing pressurizer **60** may further include an ironing partition unit **63** rotatably provided toward the support body and the pressurizing body between the support body **61** and the pressurizing body **62**.

(142) In detail, the ironing partition unit **63** may include an ironing partition body **631** rotatably provided between the support body **61** and the pressurizing body **62**. The ironing partition body **631** may be provided with an area corresponding to an area of the pressurizing body **62** and the support body **61**. Therefore, the ironing partition unit **63** may fully pressurize the laundry item arranged in any one of the pressurizing body **62**, the ironing partition body **631** and the support body **61**.

(143) The ironing partition body **631** may rotatably be coupled to the first connection hinge **81** and the second connection hinge **82** and thus provided to be rotated separately from the pressurizing body **62** or provided to be rotated in a single body with the pressurizing body **62**.

(144) The ironing partition body **631** may be provided to be independently rotated toward the support body **61**, or may be pressurized together with the pressurizing body **62** when the pressurizing body **62** is rotated toward the support body **61** and thus rotated toward the support body **61**.

(145) FIG. **14** illustrates an aspect that a laundry item P is provided in the ironing pressurizer **60** and pressurized.

(146) Referring to FIG. **14**, in the case that the laundry item is provided as bottoms and divided into a first part P worn on a left leg of a user and a second part P2 worn on a right leg of the user, any one of the first part and the second part may be provided to be pressurized in the pressurizing body **62** and the ironing partition body **631**, and the other one of the first part and the second part may be provided to be pressurized in the ironing partition unit **63** and the support body **61**.

(147) For example, the first part P1 and the second part P2 of the laundry item P may be arranged at a lower end or an upper end of the ironing partition body **631**, wherein the first part P1 may be supported on one surface provided toward the pressurizing body **62** of the ironing partition body **631** and the second part P2 may divisionally be supported on the other surface provided toward the support body **61**.

(148) At this time, the first part P1 and the second part P2 may be fixed by being overlapped with each other above or below the ironing partition body **631**. Therefore, the first part P1 and the second part P2 of the laundry item may be unfolded by self-load, and may not be provided by being overlapped with each other. As a result, each of the first part P1 and the second part P2 of the laundry item may exactly be pressurized to remove wrinkles, or a crease may exactly be formed at both sides.

(149) Meanwhile, an upkeep belt **632** may further be provided to be protruded on both surfaces or one surface of the ironing partition body **631**.

(150) The upkeep belt **632** may prevent the support body **61** and the pressurizing body **62** from being excessively adhered to each other, or may prevent the laundry item P from being displaced when the laundry item P is pressurized by the pressurizing body **62** or the ironing partition unit **63**.

(151) To this end, the upkeep belt **632** may be made of a material having a frictional force greater

than that of the ironing partition body **631** or may be made of another material having a buffering force.

(152) Meanwhile, since the ironing partition unit **63** having a certain thickness and the laundry item are arranged between the support body **61** and the pressurizing body **62**, even though the pressurizing body **62** pressurizes the laundry item, the pressurizing body **62** may be rotated in an opposite direction of the support body **61** by counteraction.

(153) Therefore, in order to avoid this, the laundry treating apparatus **1000** of the present disclosure may further include a coupling hook **613** provided in the support body **61** to fix the pressurizing body, and a hook coupling unit **623** provided in the pressurizing body and fixed to the coupling hook.

(154) In one embodiment, the hook coupling unit **623** may include a hook protrusion **623** provided to be protruded on a circumferential surface of the pressurizing plate **622**, and the coupling hook **613** may be provided in a hook shape to be fastened to the hook protrusion **623**.

(155) Also, unlike the shown example, the coupling hook **613** may be provided to be inserted and fastened to the hook coupling unit **623**, and if the support body **61** is coupled to the pressurizing body **62** such that the pressurizing body **62** may pressurize the ironing partition body **63** and the support body **61**, the coupling hook **613** may be provided in any shape and structure.

(156) Although FIG. **14** illustrates that the laundry item P is provided as one corresponding to bottoms, this is only exemplary, and a plurality of laundry items may be provided in the ironing pressurizer **60**. In other words, if the plurality of laundry items are provided, any one of the laundry items may be arranged between the ironing partition unit **63** and the pressurizing body **62**, and the other one laundry item may be arranged between the ironing partition unit **63** and the support body **61**. Also, in the embodiment which will be described later, a plurality of ironing partition units may be provided such that the laundry items may respectively be arranged in the ironing partition units.

(157) As a result, if the pressurizing body **62** is rotated toward the support body **61**, the pressurizing body **62** may pressurize any one of the laundry items through the ironing partition body **631** and the ironing partition body **631** may pressurize the other one of the laundry items through the support body **61**.

(158) Therefore, the plurality of laundry items may fully be pressurized by one ironing pressurizer **60** to remove wrinkles or form a crease.

(159) Moreover, when the laundry item is provided as top, the laundry item may be inserted into the outer circumferential surface of the ironing partition body **631** and fixed to accommodate the ironing partition body **631**, whereby one surface and the other surface of the laundry item may be pressurized by the pressurizing body **62** and the support body **61**.

(160) Meanwhile, if the ironing partition unit **63** is provided between the support body **61** and the pressurizing body **62**, it may be difficult to supply moisture or the hot air supplied from the machine chamber **20** to the laundry item. Therefore, the ironing pressurizer **60** may need a separate element that may supply heat or steam to the laundry item P.

(161) Meanwhile, the support body **61** may include a coupling unit **311** that may detachably couple the ironing partition body **631**. The coupling unit **311** may be provided in a hook type into which the outer circumferential surface of the ironing partition body **631** is partially inserted, or may be provided such that fastening units provided in the pressurizing body **62** may be coupled thereto at the same time.

(162) FIG. **15** illustrates a structure that heat or steam may separately be supplied to the ironing pressurizer **60**. Referring to FIG. **15**, the ironing partition unit **63** of the present disclosure may further include a heating unit **64** provided in any one of both surfaces of the ironing partition body **631** and provided to supply heat to the laundry item.

(163) The heating unit **64** may be provided to effectively remove wrinkles or effectively generate a crease by supplying heat energy to the laundry item pressurized among the ironing partition unit **63**, the support body **61** and the pressurizing body **62**.

(164) The heating unit **64** may include a heating body **640** provided in at least any one of both surfaces of the ironing partition body **631** and exposed to the outside, and a hot wire **6320** provided in any one of the ironing partition body **631** and the heating body **640** and provided to heat the heating body **640**.

(165) The heating body **640** may be made of a conductor or metal material to transfer heat, and the hot wire **6320** may be provided to be heated by electric energy to transfer heat to the heating body **640**.

(166) The heating body **640** may detachably be coupled to both surfaces of the ironing partition body **631** to form an exposed surface of the ironing partition body **631**. That is, the heating body coupled to one of both surfaces of the ironing partition body **631**, which is close to the inner side of the door assembly **100**, becomes (1-1)th heating body **6411**, and the heating body provided on the other surface of the ironing partition body **631** becomes a second heating body **6412**.

(167) If the heating body and the fixed body are made of the same material, the heating body **640** may be provided in a single body with the ironing partition body **631**.

(168) The hot wire **6320** may be provided to be attached to a rear surface of the heating body **640** but may favorably be provided in the ironing partition body **631** in view of safety. In other words, the hot wire **6320** may be provided to be spaced apart from the ironing partition body **631** at a certain distance from the heating body **640** to indirectly heat the heating body **640**.

(169) The hot wire **6320** may be provided to be supplied with electric energy from the cabinet **10** or the machine chamber **20** of the laundry treating apparatus of the present disclosure, and may be connected with the outside of the ironing pressurizer **60** through the first connection hinge **81** or the second connection hinge **82**. The hot wire **6320** may uniformly be provided on both surfaces of the ironing partition body **631** to reciprocate in a height direction and a width direction several times such that heat may uniformly be supplied to one surface of the heating body **640**.

(170) Meanwhile, the heating unit **64** may include a supply path **6310** provided in any one of the ironing partition body **631** and the heating body **640**, and a discharge hole **643** provided to discharge the steam to the laundry item by passing through the heating body **640**.

(171) The supply path **6310** may be provided to be supplied with water such that the water may be heated by the hot wire **6320** and discharged to the discharge hole **643**, or may be provided as a path to which the steam or mist is directly supplied.

(172) The supply path **6310** may be provided in a plural number to be spaced apart at a certain distance along a height direction or a width direction of the ironing partition body **631**, and the discharge hole **643** may be provided along an extension direction of the supply path **6310**. As a result, steam may uniformly be supplied to the laundry item P through the discharge hole **643**.

(173) The heating unit **64** may include any one of the supply path **6310** and the hot wire **6320**, or may include both the supply path **6310** and the hot wire **6320**.

(174) Meanwhile, if the heating unit **64** is provided with both the supply path **6310** and the hot wire **6320**, the hot wire **6320** may be provided outside the supply path **6310** so as not to interfere with the supply path **6310**. Also, the hot wire **6320** may be provide along the outside of the supply path **6310**.

(175) Meanwhile, since the ironing partition unit **63** is rotatably provided in the first laundry treating chamber **11** or the door assembly **100**, an arrangement area of a path for supplying steam to the supply path **6310** may be restricted.

(176) The supply path **6310** may include a main path **6312** inserted into the ironing partition body **631** or provided on a surface of the ironing partition body **631**, a divergence path **6313** provided to be diverged into a plurality of paths in a height direction or a width direction of the ironing partition body **631**, and spray paths **6314** extended from the divergence paths **6313** in the same direction to supply steam.

(177) At this time, the plurality of spray paths **6314** is preferably provided in a height direction to facilitate movement of steam because the steam is lightweight, and is preferably provided to be



spaced apart from one another in a width direction to spray steam to many areas.

(178) Therefore, if steam, moisture or water is supplied to the main path **6312**, steam may be distributed along the spray paths **6314** and uniformly sprayed to the ironing partition body **631**.

(179) The supply path **6310** may further include a communication path **6311** provided to be communicated with an auxiliary steam supply unit **85** provided outside the ironing partition body **631** to transfer water or steam to the main path **6312**.

(180) Meanwhile, the hot wire **6320** may be provided to be communicated with any one of the first connection hinge **81** and the second connection hinge **82**, and the main path **6311** may be provided to be communicated with the other one of the first connection hinge **81** and the second connection hinge **82** and thus may not be overlapped with the other one of the first connection hinge **81** and the second connection hinge **82**.

(181) To this end, passage units **811** and **812** through which the hot wire or the main path **6311** may pass or communicate may be provided in the first connection hinge **81** and the second connection hinge **82**.

(182) FIG. **16** illustrates a structure that the auxiliary steam supply unit **85** is provided to supply steam.

(183) The auxiliary steam supply unit **85** may be provided in an area of the cabinet, the machine chamber **20**, the door and the pressurizer, where a user may easily approach.

(184) The auxiliary steam supply unit **85** may be provided in at least any one of the cabinet, the machine chamber **20**, the door and the pressurizer. Since the laundry treating apparatus **1000** is not likely to be connected to an outer water supply source, the auxiliary steam supply unit **85** is preferably provided in any one of the cabinet, the machine chamber **20**, the door and the pressurizer to be detached therefrom.

(185) Also, since it is favorable that the auxiliary steam supply unit **85** is provided in an area closest to the supply path **6310**, the auxiliary steam supply unit **85** is preferably provided in the ironing partition unit **63**. Since the pressurizing body **62** is first exposed to a user, the auxiliary steam supply unit **85** is preferably provided in the pressurizing body **62**.

(186) If the auxiliary steam supply unit **85** is detachably provided in the pressurizing body **62**, the pressurizing body **62** may further include a connection path **6221** provided to communicate the auxiliary steam supply unit **85** with the connection hinge **80**.

(187) The connection path **6221** may be provided in a plate shape that may discharge moisture or steam supplied from the auxiliary steam supply unit **85**, and may be inserted into the pressurizing body **62**.

(188) Therefore, the connection path **6221** and the communication path **6311** are provided to be communicated with each other through the second connection hinge **82**, whereby moisture or steam generated from the auxiliary steam supply unit **85** may completely be discharged to the discharge hole **643**.

(189) Meanwhile, the supply path **6310** may be provided to be inserted into the ironing partition body **631**, and the ironing partition body **631** may include a plurality of through holes provided to be communicated with the discharge hole **643** of the heating unit **64**.

(190) Therefore, the supply path **6310** is provided inside the ironing partition body **631** without being provided on both surfaces of the ironing partition body **631**, whereby a thickness of the ironing partition body **631** may be reduced. Also, it is advantageous that steam may be supplied to both surfaces of the ironing partition body **631** through one supply path **6310**.

(191) FIG. **17** illustrates one embodiment of the auxiliary steam supply unit **85**. As described above, the auxiliary steam supply unit **85** may detachably be provided in the pressurizing body **62**.

(192) The auxiliary steam supply unit **85** may include an auxiliary water tank **850** detachably provided in any one of the pressurizer to accommodate water therein, an auxiliary heater **854** heating water of the auxiliary water tank **850** to generate steam, and a discharge outlet **852** communicating the auxiliary water tank **850** with the supply path **6310** to discharge steam.

(193) The auxiliary water tank **850** may be provided in a case shape having a certain volume, and may include an opened surface thereon to be easily supplied with water or facilitate washing, and may further include a cover **853** provided to shield the opened surface.

(194) Also, the auxiliary water tank **850** may include a heater insertion hole **811** into which the auxiliary heater **854** is inserted and fixed, at one side, and the auxiliary heater **854** may be provided to be fixed to the heater insertion hole **811** to heat water stored in the auxiliary water tank **850**, thereby forming steam.

(195) The discharge outlet **852** may be provided at an upper portion of one side of the auxiliary water tank **850** to completely discharge steam having a relatively low density, or may be provided to be communicated with the connection path **6221**.

(196) The pressurizing body **62** may further include an accommodating unit **623** provided to accommodate the auxiliary water tank **850**. Also, when the auxiliary water tank **850** is provided in the accommodating unit **623**, an exposed surface of the auxiliary water tank **850** and one surface of the pressurizing body **62** may be provided in parallel with each other.

(197) Therefore, if water is supplied to the auxiliary water tank **850**, steam may be supplied to the laundry item P through the heating unit **64**.

(198) Meanwhile, unlike the shown example, the heating unit **64** may be communicated with the machine chamber **20** or the auxiliary water tank **850** and thus directly supplied with the hot air or moisture from the machine chamber **20** or the auxiliary water tank **850** to discharge the hot air or moisture toward the pressurizing body **62** and the support body **61**.

(199) In other words, the heating unit **64** may be provided as a discharge hole **643** provided in a single body with the ironing partition body **631** to discharge the hot air and moisture.

(200) A path communicated with the machine chamber **20** may be provided in the first connection hinge **81** and the second connection hinge **82**, and a supply path communicated with the path to supply the hot air or moisture to the heating unit **64** may be provided in the ironing partition body **631**.

(201) If the heating unit **64** is communicated with the machine chamber **20**, the hot air or moisture of the machine chamber **20** may be supplied to the heating unit **64** when being supplied to the accommodating space **14**.

(202) Unlike this case, the steam generator **41** of the machine chamber **20** may be provided to be communicated with the ironing partition unit **63** to supply steam.

(203) That is, in the same manner as FIG. 5, the steam generator **41** may be provided to be connected with a separate steam supply path provided to be communicated with the ironing partition unit **63** through the connection hinge **80**, and the steam supply pipe **417** may be provided to be communicated with the ironing partition unit **63** through passage units **811** and **821** provided in the connection hinge **80**.

(204) Therefore, the steam generated from the steam generator **41** may directly be transferred to the ironing partition unit **63** and then supplied to the laundry item P. At this time, the hot wire **6320** and the auxiliary steam supply unit **85** may be omitted.

(205) FIGS. **18A** and **18B** illustrate a structure of a hanging unit for hanging a laundry item on the ironing pressurizer **60**.

(206) FIG. **18A** illustrates that the laundry item is detached from the ironing pressurizer **60**, and FIG. **18B** illustrates that the laundry item is fixed to the ironing pressurizer **60**.

(207) The laundry treating apparatus **1000** of the present disclosure may further include a hanging unit **90** provided in any one of an upper portion and a lower portion of the ironing pressurizer **60** to hang or fix the laundry item. A position of the hanging unit **90** may be arranged in one of the support body **61**, the pressurizing body **62** and the ironing partition unit **63**. That is, the position of the hanging unit **90** may be arranged in an upper portion or a lower portion of one of the support body **61**, the pressurizing body **62** and the ironing partition unit **63**.

(208) The hanging unit **90** may include hanging bodies **911** and **921** provided in any one of the

upper portion and the lower portion of the pressurizer to support the laundry item, and fixing bodies **912** and **922** coupled to the hanging bodies to fix the laundry item to the hanging bodies. (209) The hanging bodies **911** and **921** may fix the laundry item in a tense state to prevent the laundry item from being wrinkled or displaced when the laundry item is pressurized by the pressurizing unit **90**.

(210) At this time, in a state that the partition unit **93** is rotated, if the hanging unit **90** is fixed, the laundry item may be damaged. Therefore, the hanging bodies **911** and **921** may be provided to be rotated to correspond to the partition unit **93**.

(211) Also, the fixing bodies **912** and **922** may rotatably be coupled to the hanging bodies **911** and **921** and provided such that the laundry item may fixedly be inserted into the fixing bodies **912** and **922** and the hanging bodies **911** and **921**.

(212) The hanging bodies **911** and **921** may be coupled with the fixing bodies **912** and **922** by hook coupling to prevent the laundry item P from being randomly detached from the bodies. For example, a hanging unit hook coupling unit **9112** may be provided in the hanging bodies **911** and **921**, and the fixing bodies **912** and **922** may be provided with a hanging unit coupling hook **9122** to which the coupling hook is coupled.

(213) Meanwhile, the hanging unit **90** may be provided on only the upper portion of the ironing pressurizer **60** to fix the laundry item P, whereby the laundry item P may be tensed by self-load.

(214) However, if load of the ironing pressurizer **60** pressurizing the laundry item P is relatively great or the ironing pressurizer **60** pressurizes the laundry item P from one side to the other side, the laundry item P may be displaced or wrinkled.

(215) Therefore, the hanging unit **90** may be provided at both the upper and lower portions of the ironing pressurizer **60** to provide sufficient tension to the laundry item P, whereby the laundry item P may be prevented from being wrinkled or displaced.

(216) Referring to FIG. **18A**, the hanging unit **90** may include a first hanging unit **91** provided at the upper portion of the ironing pressurizer **60**, and a second hanging unit **92** provided at the lower portion of the ironing pressurizer **60**.

(217) The first hanging unit **91** and the second hanging unit **92** may be provided together to correspond to the ironing partition unit **63**.

(218) The first hanging unit **91** may include a first hanging body **911** rotatably provided at the upper portion of the ironing partition unit **63**, and a first fixing body **912** rotatably coupled to the first hanging body **912** to fix the laundry item.

(219) The first hanging body **911** may be provided in a plate shape having a length longer than a width, the first fixing body **912** may rotatably be coupled to the first hanging body **911** and its free end may detachably be coupled to the first hanging body **911**.

(220) The first hanging body **911** may further include an accommodating groove **9111** provided to have one curved surface, thereby accommodating the laundry item. Therefore, the laundry item may be prevented from being excessively pressurized.

(221) Meanwhile, the second hanging unit **92** may include a second hanging body **921** rotatably provided at the lower portion of the ironing partition unit **63**, and a second fixing body **922** rotatably coupled to the second hanging body **922** to fix the laundry item.

(222) The second hanging body **921** may include a first through slit **9214** into which the first part P of the laundry item is inserted to pass therethrough, and the second fixing body **922** may include a second through slit **9223** into which the second part is inserted to pass therethrough.

(223) Therefore, the first part P1 and the second part P2 of the laundry item may be inserted into the first through slit and the second through slit and guided by being partitioned into both surfaces of the partition unit **93**.

(224) Therefore, referring to FIG. **18B**, the first part P1 of the laundry item P may be inserted into the second through slit **9223** and guided between one surface of the ironing partition unit **63** and the pressurizing body **62**, and the second part P2 of the laundry item P may be inserted into the first

through slit **9214** and guided between the other surface of the ironing partition unit **63** and the support body **61**.

(225) Also, the first part **P1** and the second part **P2** of the laundry item may be overlapped with each other at the upper portion of the ironing pressurizer **60** and fixedly inserted into the first hanging body **911** and the first fixing body **912**.

(226) At this time, the first part **P1** and the second part **P2** of the laundry item may be fixedly inserted into the first hanging body **911** and the first fixing body **912** in a state that they are tightly pulled.

(227) Unlike the shown example, the first hanging unit **91** may be provided with a through slit, and the second hanging unit **92** may be provided with an accommodating groove. Therefore, a user may control a hanging direction of the laundry item **P** if necessary.

(228) FIGS. **19A** to **19D** illustrate a procedure of hanging a laundry item **P** in the laundry treating apparatus **1000** according to one embodiment of the present disclosure.

(229) Referring to FIG. **19A**, the first fixing body **921** and the first hanging body **911** may be detached from each other, and the second fixing body **922** and the second hanging body **921** may be detached from each other. Also, the pressurizing body **62**, the support body **61** and the ironing partition unit **63** may be detached from one another.

(230) Referring to FIG. **19B**, the first part **P1** and the second part **P2** of the laundry item **P** are inserted into the through slits provided in the second hanging body **921** and the second fixing body **921**, whereby the first part **P1** is arranged between the ironing partition unit **63** and the pressurizing body **62**, and the second part **P2** is arranged between the ironing partition unit **63** and the support body **61**.

(231) Afterwards, free ends of the first part **P1** and the second part **P2** of the laundry item **P** may be overlapped with each other and tightly pulled. Then, the first part **P1** and the second part **P2** of the laundry item **P** are fixed to the first hanging body **911** and the second fixing body **921** in a tense state.

(232) Referring to FIG. **19C**, the first hanging part **91**, the second hanging part **92** and the ironing partition unit **63** are rotated toward the support body **61**. At this time, the support body **61** and the ironing partition unit **63** are coupled to each other to be prevented from being detached from each other.

(233) Referring to FIG. **19D**, the pressurizing body **62** is rotated by the support body **61** to pressurize the ironing pressurizing unit **63**. Afterwards, the pressurizing body **62** and the support body **61** are coupled to each other to be prevented from being randomly detached from each other.

(234) As a result, the first part **P1** and the second part **P2** of the laundry item **P** are all pressurized. At this time, if heat and steam are supplied from the heating unit **64**, wrinkles of the first part **P1** and the second part **P2** of the laundry item **P** are removed, and a crease is formed.

(235) FIG. **20** illustrates another embodiment of the present disclosure. That is, an ironing partition unit **63** is additionally provided in the second laundry treating chamber **12** of the door assembly **100** of a door in door type. As described above with reference to FIGS. **1** and **4**, the door assembly **100** forms the second laundry treating chamber **12** that may remove a crease by pressurizing laundry therein. The door assembly **100** according to this embodiment includes an assembly door **130** that opens or closes the second laundry treating chamber **12**. The assembly door **130** according to this embodiment may be arranged in a front direction **F** of the door assembly **100** to open or close the second laundry treating chamber **12** formed inside the door assembly **100** in the front direction **F**.

(236) The second laundry treating chamber **12** is arranged inside the door assembly **100**. The second laundry treating chamber **12** may have a shape opened toward a front direction from the door assembly **100**, and may be disconnected from the outside by the assembly door **130**. The assembly door **130** may serve as a door that opens or closes the inner space of the second laundry treating chamber **12**. Therefore, the second laundry treating chamber **12** may only be opened or

closed by the assembly door **130** even without opening or closing the first laundry treating chamber **11** through the assembly housing **110**. This is referred to as a door in door type.

(237) A fixing member **114** fixing laundry to hang the laundry toward a downward side D, a base plate **113** supporting the laundry arranged therein, and a press plate **132** tightly attached to the base plate **113** to pressurize the laundry arranged between the base plate **113** and the press plate **132** are arranged in the second laundry treating chamber **12**. The ironing partition unit **63** is rotatably coupled between the plates. Although the ironing partition unit is shown to be rotatably coupled to the base plate **113**, this is only exemplary. If the base plate **113**, the press plate **132** and the ironing partition unit **63** may be coupled to one another by rotation to correspond to one another, the ironing partition unit **63** may be coupled to any plate. That is, the ironing partition unit **63** may be coupled with the base plate **113** by a hinge, or may be coupled with the press plate **132** by a hinge. Also, the ironing partition unit **63** may rotatably be coupled to the assembly door **130** or the door assembly **100**.

(238) FIG. **20** illustrates a structure that the auxiliary steam supply unit **85** is provided to supply steam in the same manner as FIG. **16**. Preferably, the auxiliary steam supply unit **85** is detachably provided in at least any one of the cabinet **10**, the machine chamber **20**, and the door assembly **100**. That is, in the same manner as FIG. **14**, the auxiliary steam supply unit **85** may be provided in the second base plate **134** to supply steam to the first ironing partition unit **6301** and the second ironing partition unit **6302** through the communication path. The hot wire may be provided along the outside of the supply path and thus prevented from interfering with the supply path for steam supply to each ironing partition unit. Also, the door assembly may include a connection hinge rotatably coupling the ironing partition unit with the support body, and a passage unit provided in the connection hinge to pass the hot wire or the supply path therethrough.

(239) Meanwhile, unlike this case, the steam generator **41** of the machine chamber **20** may be provided to be communicated with the ironing partition unit **63**, thereby supplying steam.

(240) That is, in the same manner as FIG. **5**, the steam generator **41** may be provided to be connected with a separate steam supply path provided to be communicated with the ironing partition unit through the connection hinge **80** by passing through the cabinet hinge unit **144** and the assembly hinge unit **146**, and the steam supply pipe **417** may be provided to be diverged and communicated with the ironing partition unit **6301** through the passage units **811** and **821** provided in the connection hinge **80**. Referring to the aforementioned drawings, the following process will be apparent to those skilled in the art and thus its description will be omitted.

(241) FIG. **21** illustrates another embodiment of the present disclosure. That is, a plurality of ironing partition units **63** are additionally provided in the second laundry treating chamber **12** of the door assembly **100** of a door in door type. Therefore, several laundry items may be pressurized, heated and supplied with steam at the same time. FIG. **21** illustrates two ironing partition units and one partition plate **160**. Also, a first fixing member **1141** fixing a laundry item and a first base plate **115** pressurizing the laundry item fixed to the assembly housing **110** together with the partition plate **160** are arranged at the inner side **111a** of the assembly housing **110**.

(242) The first base plate **115** includes a first base fixed plate **116** fixed to the assembly housing **110**, and first base elastic plates **116a** and **116b** formed to be extended from the first base fixed plate **116** and formed to be more spaced apart from the inner side **111a** of the assembly housing **110** than the first base fixed plate **116**, providing an elastic force to laundry.

(243) A second fixing member **1341** fixing laundry and a second base plate **135** pressurizing the laundry fixed to the assembly door **130** together with the partition plate **160** are arranged at the inner side **131** of the assembly door **130** according to this embodiment.

(244) The second base plate **135** includes a second base fixed plate **136** fixed to the assembly door **130**, and second base elastic plates **136a** and **136b** formed to be extended from the second base fixed plate **136** and formed to be more spaced apart from the inner side **131** of the assembly door **130** than the second base fixed plate **136**, providing an elastic force to laundry.

(245) Also, the first ironing partition unit **6301** is provided between the first base plate **115** and the partition plate **160**, and the second ironing partition plate **6302** is provided between the partition plate **160** and the second base plate **135**. Also, the first ironing partition unit **6301** and the second ironing partition unit **6302** are rotatably coupled with each other by a hinge. That is, the first ironing partition unit **6301**, the second ironing partition unit **6302** and the partition plate **160** may rotatably be coupled with the assembly hinge. Alternatively, unlike this example, the first ironing partition unit may be coupled with the first base plate **115** by a hinge or the second ironing partition unit may be coupled with the second base plate **116** by a hinge. That is, if the first ironing partition unit and the second ironing partition unit may be coupled to each other by rotation to correspond to each other, the ironing partition units may be coupled to each other even by any coupling.

(246) Also, in the same manner as FIG. **16**, the auxiliary steam supply unit may be provided. However, the following process will be apparent to those skilled in the art through FIG. **16** and thus its description will be omitted.

(247) It will be apparent to those skilled in the art that the present specification can be embodied in other specific forms without departing from the spirit and essential characteristics of the specification. Thus, the above embodiments are to be considered in all respects as illustrative and not restrictive. The scope of the specification should be determined by reasonable interpretation of the appended claims and all change which comes within the equivalent scope of the specification are included in the scope of the specification.

## Claims

1. A laundry treating apparatus comprising: a cabinet having an opening in a front direction; a first laundry treating chamber provided inside the cabinet to provide a space for accommodating laundry and communicated with an outside of the cabinet through the opening; a machine chamber communicated with the first laundry treating chamber to arrange at least one of (i) a steam supply configured to supply steam to the first laundry treating chamber or (ii) an air supply configured to circulating air; a door assembly configured to open and close the opening; a second laundry treating chamber defined inside the door assembly to provide a space for pressing the laundry; and an assembly door configured to open and close the second laundry treating chamber, wherein the second laundry treating chamber comprises: a fixing member arranged at the second laundry treating chamber and configured to hang the laundry; a first surface configured to contact one side of the laundry hung by the fixing member; and a second surface configured to contact another side of the laundry.
2. The laundry treating apparatus of claim 1, wherein the laundry is pressed by closing the second laundry treating chamber.
3. The laundry treating apparatus of claim 1, wherein the first surface is arranged at any one of the door assembly or the assembly door, and wherein the second surface is arranged at the other one of the door assembly or the assembly door, positioned opposite of a base plate with respect to the laundry.
4. The laundry treating apparatus of claim 1, wherein the second surface is disposed at the assembly door.
5. The laundry treating apparatus of claim 1, wherein the second laundry treating chamber further comprises: a base plate arranged at any one of the door assembly or the assembly door, and having the first surface; and a press plate arranged at the other one of the door assembly and the assembly door, positioned opposite of the base plate with respect to the laundry, having the second surface.
6. The laundry treating apparatus of claim 1, wherein the laundry contacts the first surface when the laundry is hung by the fixing member.
7. The laundry treating apparatus of claim 1, wherein the fixing member is arranged at the door assembly, and wherein a fixed member groove formed at the assembly door to accommodate the

fixing member.

8. The laundry treating apparatus of claim 1, wherein the assembly door is arranged in the front direction of the door assembly.

9. The laundry treating apparatus of claim 1, wherein a front side of the assembly door forms a front exterior of the laundry treating apparatus.

10. The laundry treating apparatus of claim 1, further comprising: a cabinet hinge rotatably connecting the door assembly with the cabinet; and an assembly hinge rotatably connecting the door assembly to the assembly door.

11. The laundry treating apparatus of claim 10, further comprising a steam moving unit moving steam generated from the steam supply to the second laundry treating chamber, wherein the steam moving unit comprises a steam path arranged at an inner side of an assembly hinge.

12. The laundry treating apparatus of claim 1, wherein the second laundry treating chamber further comprises: a partition plate arranged between the door assembly and the assembly door, hinge-fixed to any one of the door assembly or the assembly door, wherein the first surface is arranged at any one of the door assembly or the assembly door, and wherein the second surface is arranged at the partition plate.

13. The laundry treating apparatus of claim 12, wherein the fixing member is arranged at any one of the door assembly or the assembly door.

14. The laundry treating apparatus of claim 12, wherein the fixing member is a first fixing member arranged at the door assembly and configured to hang a first laundry, and wherein a second fixing member is arranged at the assembly door and configured to hang a second laundry.

15. The laundry treating apparatus of claim 14, wherein the first surface is configured to contact one side of the first laundry hung by the first fixing member, wherein the second surface is configured to contact the other side of the first laundry, and wherein the second laundry treating chamber further comprises: a third surface configured to contact one side of the second laundry hung by the second fixing member, and a fourth surface configured to contact the other side of the second laundry and arranged at the partition plate.

16. The laundry treating apparatus of claim 15, wherein the second laundry treating chamber further comprises: a first base plate arranged at the door assembly, and having the first surface; and a second base plate arranged at the door assembly, and having the third surface.

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