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(54) **CONTROL METHOD FOR CLOTHES PROCESSING DEVICE**

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EP 3 971 336 B1

Description

TECHNICAL FIELD

[0001] The present application relates to the technical field of laundry washing and drying apparatus, in particular to a control method of a laundry treatment apparatus.

BACKGROUND

[0002] Serving as a household appliance, a washing machine gradually becomes an indispensable part in the life of people. With the improvement of the living standard, the daily needs of people cannot be met by quick laundry washing, and sometimes, people need to wear the clothes in the shortest time after the clothes are washed, so that a laundry dryer serving as a laundry drying apparatus increasingly involves in people's homes.

[0003] However, if a washing machine and a laundry dryer are placed at home, not only a large space is occupied, but also people need to transfer laundry washed by the washing machine into the laundry dryer. Due to the fact that the capacity of the laundry dryer is generally smaller than that of the washing machine, the laundry washed at a time cannot be treated in the laundry dryer at one time and need to be treated twice or even multiple times respectively. In addition, there is a roller washing machine with a drying function at present, but the capacity of the washing machine is generally limited due to the fact that the roll washing machine needs to conduct drying, and the whole laundry washing and drying process lasts for a long time.

[0004] Document CN 109 518 409 A discloses a laundry washing and drying machine that installs the drying device for drying clothes and the laundry device for washing in the same casing.

[0005] As the prior art, Chinese utility model patent with the application number of 201220157731.3 filed on April 16, 2012 and entitled a combined type laundry washing and drying machine, discloses a washing machine including a main frame, wherein a washing machine is installed in a lower frame of the main frame, a laundry dryer is installed in an upper frame of the main frame. An upper portion of the washing machine is connected with an electric appliance control panel through a second isolation layer. An upper portion of the electric appliance control panel is connected with the laundry dryer through a first isolation layer. A washing machine working door is arranged on the washing machine, and a laundry dryer working door is arranged on the laundry dryer. According to the combined type laundry washing and drying machine, the well-known washing machine and laundry dryer are combined together to be manufactured, manufacturing materials can be saved, the manufacturing cost can be reduced. Due to combined manufacturing, the occupied ground space is small in a using process, and due to the fact that the laundry dryer forms the working height on the upper portion, the use is convenient.

[0006] According to the above utility model patent, the laundry dryer and the washing machine are combined, so that the problems of washing and drying laundry at the same time are solved, but the washing machine and the laundry dryer are not integrated due to different working processes of the washing machine and the laundry dryer, resulting in waste of the resources of the washing machine and the laundry dryer.

[0007] For example, according to a washing and drying machine with two laundry treatment devices, the two laundry treatment devices share the same one drying and filtering device. After drying work, thread scraps and sundries adhere to the drying and filtering device, thereby affecting the circulation of drying air. After one laundry treatment device dries laundry, a large amount of thread scraps adhere to the drying and filtering device. If the other laundry treatment device starts to work again at the moment, the thread scraps on the drying and filtering device hinder the circulation of drying air, thereby being adverse to improving the drying effect.

[0008] In view of this, on the basis of the washing and drying machine, the problem of flushing the drying and filtering device is solved according to the working features of the washing machine/laundry dryer and the laundry dryer.

SUMMARY

[0009] In order to solve the above problems, a first objective of the present application is to provide a control method of a laundry treatment apparatus, and particularly, the following technical solution is adopted.

[0010] A control method of a laundry treatment apparatus is provided. The laundry treatment apparatus includes a first laundry treatment device, a second laundry treatment device, a drying and filtering device and a flushing water passage for flushing the drying and filtering device. The control method includes that the laundry treatment apparatus, controls the flushing water passage to flush the drying and filtering device according to operating states of the two laundry treatment devices.

[0011] In the above solution, the two laundry treatment devices are arranged, and the laundry treatment apparatus is configured to match the operating states of the two laundry treatment devices to select time suitable for flushing the drying and filtering device, thereby achieving the purposes of facilitating drainage of flushing water, saving time and energy and improving the flushing and laundry drying effects.

[0012] In one embodiment, the laundry treatment apparatus includes an inflow water passage and a drainage water passage, the flushing water passage is communicated with the inflow water passage, and the drying and filtering device is communicated with the drainage water passage through a connecting pipe. The laundry treatment apparatus controls the flushing water passage to be conductive to flush the drying and filtering device when the second/first laundry treatment device drains water,

after being detected that the first/second laundry treatment device finishes laundry drying and the second/first laundry treatment device conducts a laundry washing process.

[0013] In the above embodiments, the flushing water passage of the laundry treatment apparatus is directly connected with the inflow water passage of the laundry treatment apparatus, and the drying and filtering device of the laundry treatment apparatus is directly connected with the drainage water passage. When the other laundry treatment device is in a laundry washing state, it is determined that a washing time point is in a drainage stage; and when the operation of the laundry washing process of the laundry treatment device is in the drainage stage, the laundry treatment apparatus controls the flushing water passage to be conductive to flush the drying and filtering device. Water after flushing can be drained together with drained water of the laundry treatment devices conducting the laundry washing process.

[0014] In one embodiment, the laundry washing process includes a plurality of drainage stages. The laundry treatment apparatus selects a target drainage stage from the drainage stages. When the laundry washing process enters the target drainage stage, the drying and filtering device is controlled to be flushed.

[0015] In the above solution, a laundry washing process may include multiple times of drainage stages, for example, drainage after washing and drainage after rinsing. In order to complete the laundry drying process as soon as possible, the laundry treatment apparatus can select the latest drainage stage according to the current stage of the laundry washing process and time sequence information of the laundry washing process, and controls the drying and filtering device to be flushed in the drainage stage. Of course, the laundry treatment apparatus may also control the drying and filtering device to be flushed when the other laundry treatment device is in the last time of drainage after washing process is complete.

[0016] Further, after one laundry treatment device finishes laundry drying, the laundry treatment apparatus is detected that the other laundry treatment device conducts the laundry washing process. The number of subsequent remaining drainage stages in the laundry washing process is judged according to the current stage of the laundry washing process, and the target drainage stage is selected from the drainage stages.

[0017] In one embodiment, when one laundry treatment device finishes laundry drying, the laundry treatment apparatus is detected that the other laundry treatment device conducts a laundry treatment process including laundry washing and laundry drying. The drying and filtering device is controlled to be flushed in the laundry washing process of the laundry treatment process.

[0018] In the above solution, the laundry treatment apparatus preferably flushes the drying and filtering device in the laundry washing process of the laundry treatment process, so that when the laundry drying process of the laundry treatment process is in operation, the drying and filtering device has been flushed, thereby improving the laundry drying effect.

[0019] Besides, if it is detected that the laundry drying process of the laundry treatment process is in operation, the laundry treatment apparatus conducts the flushing of the drying and filtering device when the operation of the laundry drying process is finished. Thereby when laundry drying is conducted next time, the drying and filtering device is clean and the laundry drying efficiency is high.

[0020] In one embodiment, the laundry treatment apparatus is detected that the first laundry treatment device finishes laundry drying and the second laundry treatment device conducts the drying process; or the second laundry treatment device finishes laundry drying and the first laundry treatment device conducts the drying process. The drying and filtering device is controlled to be flushed when the drying process is finished.

[0021] In the above solution, the laundry treatment apparatus conducts the flushing of the drying and filtering device after the other laundry treatment device finishes the operation of the drying process. The drying and filtering device is only flushed once during twice the laundry drying processes. The drying and filtering device is clean when laundry drying is conducted next time, and the laundry drying efficiency is high.

[0022] Alternatively, the laundry treatment apparatus controls the drying process to be suspended, and the drying and filtering device is flushed.

[0023] In the above solution, when the laundry drying process of one laundry treatment device is finished, the drying and filtering device is directly controlled to be flushed, and then the other laundry treatment device is controlled to conduct the laundry drying process. The drying and filtering effects of the laundry treatment device conducting the laundry drying process later are keeping good.

[0024] According to the present invention, when the two laundry treatment devices both conduct the drying process, the two laundry treatment devices operate alternately. The laundry treatment apparatus controls the drying and filtering device to be flushed when switching the operating laundry treatment device.

[0025] In the above solution, when the two laundry treatment devices both conduct the drying process, the laundry treatment apparatus controls the two laundry treatment devices to operate alternately. The drying effect of each laundry treatment device is good. When the operating laundry treatment device is switched, the drying and filtering device is flushed; thereby the drying effect of the switched laundry treatment device is good.

[0026] According to the present invention, the laundry treatment apparatus includes a drying fan, and in the process of flushing the drying and filtering device, the laundry treatment apparatus controls the drying fan to suspend working.

[0027] In the above solution, when the laundry treatment devices being in operation are switched, the drying and filtering device is flushed. If the drying fan keeps

working, flushing water can be blown into a drying air duct by the drying fan to be adverse to drying laundry. Therefore, the drying fan is controlled to suspend working to prevent the influence on the drying process.

[0028] In one embodiment, when both conducting the drying process, the two laundry treatment devices operate alternately. When a laundry treatment barrel of the first/second laundry treatment device suspends/finishes rotation, the laundry treatment barrel of the second/first laundry treatment device starts rotation, the drying fan suspends working, and the laundry treatment apparatus controls the drying and filtering device to be flushed. When flushing the drying and filtering device is finished, the laundry treatment apparatus controls the drying fan to work.

[0029] In the above solution, after the laundry treatment device is switched, the laundry treatment barrel of the switched laundry treatment device rotates, but the drying fan does not operate. At the moment, the drying and filtering device is flushed. After flushing the drying and filtering device is completed, the drying fan is controlled to operate. In the process, although the switched laundry treatment barrel is not dried immediately, a shaking process is conducted firstly to make the laundry fluffy, and the drying effect can be improved when the drying fan is in operation.

[0030] In one embodiment, the laundry treatment apparatus is detected that the first laundry treatment device finishes laundry drying and the second laundry treatment device is in a standby state, or the second laundry treatment device finishes laundry drying and the first laundry treatment device is in a standby state. In this time the drying and filtering device is directly controlled to be flushed.

[0031] In the above solution, when one laundry treatment device finishes laundry drying and the other laundry treatment device does not work, the flushing water passage can be directly controlled to be conductive to flush the drying and filtering device.

[0032] In one embodiment, the laundry treatment apparatus includes the first laundry treatment device and the second laundry treatment device which are sequentially arranged from top to bottom. The second laundry treatment device is connected with the drainage water passage, and a drainage control device is arranged on the drainage water passage. The drying and filtering device is connected with the drainage water passage through a connecting pipe and located at the upstream or downstream of the drainage control device.

[0033] In one embodiment, the drainage control device is a drainage valve. The connecting pipe is connected with the drainage water passage and located at the upstream of the drainage valve. When the drying and filtering device is flushed, the laundry treatment apparatus controls the drainage valve to be switched on. Alternatively the connecting pipe is connected with the drainage water passage and located at the downstream of the drainage valve. When the first laundry treatment device finishes laundry drying, the laundry treatment apparatus directly controls the drying and filtering device to be flushed.

[0034] In one embodiment, the drainage control device is a drainage pump. The connecting pipe is connected with the drainage water passage and located at the upstream or downstream of the drainage pump. When finishing the flushing of the drying and filtering device, the laundry treatment apparatus controls the drainage pump to be started.

[0035] In the present invention, the laundry treatment apparatus includes the first laundry treatment device, the second laundry treatment device, the drying and filtering device and the flushing water passage for flushing the drying and filtering device. The control method includes: controlling the flushing water passage to flush the drying and filtering device by the laundry treatment apparatus, according to the operating states of the two laundry treatment devices. In the present invention, the two laundry treatment devices are arranged. The laundry treatment apparatus is configured to match the operating states of the two laundry treatment devices to select the time suitable for flushing the drying and filtering device, thereby achieving the purposes of facilitating drainage of flushing water, saving time and energy and improving the flushing and laundry drying effects.

BRIEF DESCRIPTION OF THE DRAWINGS

[0036]

Figure 1 is a schematic structural diagram of a laundry treatment apparatus; and
Figure 2 is a control step chart of the laundry treatment apparatus.

1, housing; 2, first laundry treatment device; 3, second laundry treatment device; 4, flushing water passage; 5, drainage water passage; 6, drying and filtering device; 7, connecting pipe; 8, drainage control device; and 9, water inlet valve.

DETAILED DESCRIPTION

[0037] In order to make the purpose, the technical solution and the advantages of embodiments of the present invention clearer, the technical solutions in the embodiments are clearly and completely described in combination with accompanying drawings in the embodiments of the present invention. The following embodiments are used for illustrating the embodiments of the present invention, but are not used for limiting the scope of the embodiments of the present invention.

[0038] In the description of the present invention, the orientation or position relation indicated by terms "upper", "lower", "inner", "outer" and the like is based on the orientation or position relation shown in the accompanying drawings, and is only used for conveniently describing

the present invention and simplifying the description, instead of indicating or implying that the indicated device or element has a specific orientation and is constructed and operated in the specific orientation, so that the terms cannot be understood as the limitation on the present invention.

[0039] In the description of the present invention, it should be noted that the terms "installation" and "connection" should be interpreted in a broad sense unless otherwise clearly defined and restricted. For example, the connection may be a fixed connection, a detachable connection, or an integrated connection; may be a mechanical connection or an electric connection; and may be a direct connection, and an indirect connection through an intermediate medium. For those of ordinary skill in the art, the specific meanings of the above terms in the present invention can be understood in specific situations.

[0040] The present invention provides a control method of a laundry treatment apparatus. As shown in Figure 1, the laundry treatment apparatus includes:

a housing 1;
a first laundry treatment device 2 and a second laundry treatment device 3 arranged in the housing 1.

[0041] Each of the first laundry treatment device 2 and the second laundry treatment device 3 includes a laundry treatment barrel. The first laundry treatment device 2 and the second laundry treatment device 3 may both be used for drying laundry. Or one of the two laundry treatment devices is used for drying laundry, the other one is used for washing laundry. Alternatively one of the two laundry treatment devices is used for drying laundry, and the other one is used for washing and drying laundry. Or each of the two laundry treatment devices is used for washing and drying laundry.

[0042] The two laundry treatment devices share a drying and filtering device 6 for filtering drying air.

[0043] The laundry treatment apparatus further includes a flushing water passage 4, an inflow water passage and a public drainage water passage 5. One end of the flushing water passage 4 is connected with the inflow water passage, the other end of the flushing water passage 4 is communicated to the drying and filtering device 6, and a flushing control device (on-off valve) is arranged on the flushing water passage 4. The inflow water passage includes a water inlet valve 9 and a water inlet pipe, one end of the water inlet pipe is connected with the water inlet valve 9, and the other end of the water inlet pipe is externally connected with a faucet. The flushing water passage 4 is connected with the water inlet valve 9 or the water inlet pipe.

[0044] In a connecting structure, the water inlet pipe is connected with a three-way pipe, the three-way pipe is communicated with the water inlet valve 9 and the flushing water passage 4 respectively, in this way, the flushing water passage 4 is communicated with an external water source through the water inlet pipe. The flushing water passage 4 can be realized to be blocked and connective by controlling the on and off of the flushing control device (for example, the on-off valve) on the flushing water passage 4.

[0045] The drying and filtering device 6 is connected to the drainage water passage 5 through a connecting pipe 7. At least one of the two laundry treatment devices can be used for washing, and the laundry treatment device capable of being used for washing is connected with the drainage water passage 5. As shown in Figure 1, a U-shaped pipeline is arranged on the connecting pipe 7, and a siphon structure is formed by the U-shaped pipeline, which is conducive to completely draining flushing water.

[0046] The control method of the present invention includes that the laundry treatment apparatus, according to operating states of the two laundry treatment devices, controls the flushing water passage to flush the drying and filtering device.

[0047] Preferably, when one laundry treatment device finishes laundry drying, the laundry treatment apparatus detects the operating state of the other laundry treatment device. A time point, at which the flushing water passage 4 is controlled to flush the drying and filtering device 6, is determined according to the operating state. The two laundry treatment devices are arranged. When the drying and filtering device 6 needs to be flushed after one laundry treatment device finishes laundry drying, the laundry treatment apparatus selects time suitable for flushing the drying and filtering device on the basis of the operating state of the other laundry treatment device, thereby achieving the purposes of facilitating drainage of flushing water, saving and energy and improving the flushing and laundry drying effects.

Embodiment I

[0048] In the embodiment, when the laundry treatment apparatus is detected that the first/second laundry treatment device finishes laundry drying and the second/first laundry treatment device conducts a laundry washing process, the flushing water passage is controlled to be conductive to flush the drying and filtering device 6 when the second/first laundry treatment device is a process of draining water. The flushing water passage 4 of the laundry treatment apparatus is directly connected with the inflow water passage of the laundry treatment apparatus, and the drying and filtering device 6 of the laundry treatment apparatus is directly connected with the drainage water passage 5. When the other laundry treatment device is in a laundry washing process, it is determined that the washing time point is in a drainage stage. The laundry treatment apparatus controls the flushing water passage 4 to be conductive to flush the drying and filtering device 6 when the laundry washing process of the other laundry treatment device is in the drainage stage. Water after flushing the drying and filtering device can be drained

along with water used in the laundry washing process of the other laundry treatment device.

[0049] Specifically, the laundry washing process includes a plurality of drainage stages. The laundry treatment apparatus selects a target drainage stage from the drainage stages. When the laundry washing process is in the target drainage stage, the drying and filtering device 6 is controlled to be flushed.

[0050] It should be noted that generally, laundry washing process may include multiple times of drainage, for example, drainage after washing and drainage after rinsing. In one laundry washing process, there are more than one time of drainage for washing and drainage for rinsing. In order to complete the laundry drying process as soon as possible, the laundry treatment apparatus can select the latest drainage stage according to the current stage of the laundry washing process and time sequence information of the laundry washing process, and control the drying and filtering device 6 to be flushed in the latest drainage stage. Of course, the laundry treatment apparatus may also control the drying and filtering device 6 to be flushed when the other laundry treatment device finishes the last time of drainage for washing. The drainage water passage is provided with a drainage valve, and the drying and filtering device 6 may be connected to the drainage water passage through the connecting pipe 7 and located at the upstream or downstream of the drainage valve. When the connecting pipe 7 is connected to the drainage water passage and located at the upstream of the drainage valve, the above technical solution needs to be adopted. That is, when the drainage valve is switched on in the drainage stage, the drying and filtering device needs to be controlled to be flushed.

[0051] Besides, when the connecting pipe 7 is connected to the drainage water passage and located at the downstream position of the drainage valve, the control method can also be as follows. When one laundry treatment device finishes laundry drying and the laundry treatment apparatus is detected that the other laundry treatment device conducts the laundry washing process, the flushing water passage 4 is directly controlled to be conductive to flush the drying and filtering device 6. The drying and filtering device 6 is connected to the drainage water passage 5 through the connecting pipe 7 and located at the downstream of the drainage valve. In this way, part of the flushing water to be drained may be remained in the drainage water passage 5. So, when the drying and filtering device 6 is flushed in the drainage stage, the flushing water containing a large amount of thread scraps can flow out of the laundry treatment apparatus along with the drained water during washing.

Embodiment II

[0052] In the embodiment II, the laundry treatment devices can conduct a laundry treatment process including laundry washing and laundry drying. When one laundry treatment device finishes laundry drying and the laundry treatment apparatus is detected that the other laundry treatment device conducts the laundry treatment process including laundry washing and laundry drying, the drying and filtering device 6 is controlled to be flushed in the laundry washing process of the laundry treatment process.

[0053] The laundry treatment apparatus preferably flushes the drying and filtering device 6 in the laundry washing process of the laundry treatment process. So, when the laundry drying process of the laundry treatment process is in operation, the drying and filtering device 6 has been flushed, thereby improving the laundry drying effect.

[0054] In addition, there is a situation that when one laundry treatment device finishes laundry drying and the laundry treatment apparatus is detected that the laundry drying process of the other laundry treatment process is in operation, the laundry treatment apparatus conducts the flushing of the drying and filtering device 6 after the operation of the laundry drying process is finished.

[0055] So, when laundry drying is conducted next time, the clean drying and filtering device 6 and the laundry drying efficiency are ensured.

Embodiment III

[0056] In the embodiment III, when the laundry treatment apparatus is detected that the first/second laundry treatment device finishes laundry drying and the second/first laundry treatment device conducts the drying process, the drying and filtering device 6 is controlled to be flushed when the drying process is finished. In the solution, the laundry treatment apparatus conducts the flushing of the drying and filtering device 6 after the other laundry treatment device finishes the operation of the drying process. Thus the drying and filtering device 6 is only flushed once during two times of laundry drying. The drying and filtering device has been cleaned by flushing and thus the laundry drying efficiency is ensured when laundry drying is conducted next time.

[0057] Alternatively, it also may be that when the laundry treatment apparatus is detected that the first/second laundry treatment device finishes laundry drying and the second/first laundry treatment device conducts the drying process, the laundry treatment apparatus controls the drying process to be suspended and the drying and filtering device 6 is flushed firstly. After the drying and filtering device 6 is flushed, the laundry treatment device is controlled to continue conducting the drying process. In the solution, when the laundry drying process of one laundry treatment device is finished, the drying and filtering device 6 is directly controlled to be flushed, and then the other laundry treatment device is controlled to conduct the laundry drying process. Thereby the drying and filtering effects of the laundry treatment device conducting the laundry drying process later are ensured.

Embodiment IV

[0058] In the embodiment IV, the two laundry treatment devices both conduct the drying process, the two laundry treatment devices operate alternately the drying process. The laundry treatment apparatus controls the drying and filtering device 6 to be flushed when switching the operation of the laundry treatment device.

[0059] In the above solution, when the two laundry treatment devices both conduct the drying process, the laundry treatment apparatus controls the two laundry treatment devices to operate alternately the drying process. The drying effect of each laundry treatment device is ensured. When the operation of the laundry treatment device is switched, the drying and filtering device 6 is flushed, and thus the drying effect of the switched laundry treatment device is ensured.

[0060] The laundry treatment apparatus can conducting flushing of the drying and filtering device 6 once when the two laundry treatment devices are switched to work every time. Thus the drying effect of the switched laundry treatment device is ensured. Alternatively the laundry treatment apparatus can control the drying and filtering device 6 to be flushed once every N times of switching to work for two treatment devices, so that the drying efficiency of the whole apparatus is ensured.

[0061] The laundry treatment apparatus includes a drying air duct, and a drying fan arranged in the drying air duct. The laundry treatment apparatus controls the drying fan to suspend working in the process of flushing the drying and filtering device 6. In the solution, when the laundry treatment device being working is switched, the drying and filtering device is flushed. If the drying fan keeps working, flushing water can be blown into the drying air duct by the drying fan, which is adverse to drying laundry. Therefore the drying fan is controlled to suspend working to prevent the influence on the drying process.

[0062] Preferably, when the two laundry treatment devices both conduct the drying process, the two laundry treatment devices operate alternately the drying process. When a laundry treatment barrel of the first/second laundry treatment device suspends or finishes rotation, the laundry treatment barrel of the second/first laundry treatment device starts rotation. The drying fan suspends working, and the laundry treatment apparatus controls the drying and filtering device 6 to be flushed. When flushing the drying and filtering device is finished, the laundry treatment apparatus controls the drying fan to work. In the solution, after the laundry treatment device is switched, the laundry treatment barrel of the switched laundry treatment device rotates, but the drying fan does not operate. At the moment, the drying and filtering device 6 is flushed. After flushing the drying and filtering device is completed, the drying fan is controlled to operate. In the process, although the laundry treatment barrel to be switched is not dried immediately, a shaking process is conducted firstly to make the laundry fluffy. And the drying effect can be improved when the drying fan is in operation.

Embodiments V

[0063] In the embodiment V, when one laundry treatment device finishes laundry drying and the laundry treatment apparatus is detected that the other laundry treatment device is in a standby state, the flushing water passage 4 is directly controlled to be conductive to flush the drying and filtering device 6. The flushing water is drained through the drainage water passage 5. In the solution, when one laundry treatment device finishes laundry drying and the other laundry treatment device does not work, the flushing water passage 4 can be directly controlled to be conductive to flush the drying and filtering device 6.

Embodiment VI

[0064] In the embodiment VI, the laundry treatment apparatus includes the first laundry treatment device 2 and the second laundry treatment device 3 which are sequentially arranged from top to bottom. The first laundry treatment device 2 is used for drying laundry, the second laundry treatment device 3 can be used for drying and washing laundry, and the second laundry treatment device 3 is connected with the drainage water passage 5. A drainage control device 8 is arranged on the drainage water passage 5, and the drying and filtering device 6 is connected to the drainage water passage 5 through the connecting pipe 7 and located at the upstream or downstream of the drainage control device 8.

[0065] In one embodiment, the drainage control device 8 is a drainage valve. When the connecting pipe 7 is connected to the drainage water passage 5 and located at the upstream of the drainage valve, the laundry treatment apparatus needs to control the drainage valve to be switched on to drain water in flushing the drying and filtering device 6. In the process of flushing the drying and filtering device 6, the drainage valve can be switched on to drain washing water and flushing water when the second laundry treatment device 3 is in the drainage process. However, when the connecting pipe 7 is connected to the drainage water passage 5 and located at the downstream of the drainage valve, the drying and filtering device 6 is controlled to be flushed and it is unnecessary the second laundry treatment device 3 is in the drainage process.

[0066] In another embodiment, the drainage control device 8 is a drainage pump. The connecting pipe 7 is connected to the drainage water passage 5 and located at the upstream or downstream of the drainage pump. When flushing the drying and filtering device 6 is finished, the laundry treatment apparatus controls the drainage pump to be started. In the solution, when the drainage control device 8 is the drainage pump, the principle of upward drainage is generally adopted. So the drainage pump needs to be started to pump out flushing water for flushing the drying and filtering device 6 by the laundry

treatment apparatus. A drainage valve is further arranged on the drainage water passage 5 and located at the upstream of the drainage pump, thus preventing flushing water from backward flowing.

[0067] As shown in Figure 2, a preferable control step is provided by combining the solutions of the embodiments:

S1, finishing laundry drying of one laundry treatment device;
S2, the laundry treatment apparatus being detected the operating state of the other laundry treatment device,
entering S3 if the other laundry treatment device is in the laundry washing process,
entering S4 if the other laundry treatment device is in the laundry drying process, and
entering S5 if the other laundry treatment device is in the standby state;
S3, the laundry treatment apparatus controlling the drying and filtering device 6 to be flushed in the drainage stage, and entering S6;
S4, the laundry treatment apparatus controlling the drying and filtering device 6 to be flushed when the laundry drying process is finished, and entering S6;
S5, the laundry treatment apparatus directly controlling the drying and filtering device 6 to be flushed, and entering S6; and
S6, ending control.

[0068] The above descriptions are only preferred embodiments of the present invention, but are not aimed at limiting the present invention in any forms.

Claims

1. A control method for a laundry treatment apparatus, wherein the laundry treatment apparatus comprises a first laundry treatment device (2), a second laundry treatment device (3), a drying and filtering device (6) and a flushing water passage (4) for flushing the drying and filtering device (6), and

   the control method comprises: controlling the flushing water passage (4) to flush the drying and filtering device (6) according to operating states of the first laundry treatment device (2) and the second laundry treatment device (3) by the laundry treatment apparatus, **characterized in that** when both the first laundry treatment device (2) and the second laundry treatment device (3) conduct the drying process, the first laundry treatment device (2) and the second laundry treatment device (3) operate alternately the drying process, and
   the laundry treatment apparatus controls the drying and filtering device (6) to be flushed when switching between the operations of the first laundry treatment device (2) and the second laundry treatment device (3), wherein the laundry treatment apparatus comprises a drying fan, the drying fan is controlled by the laundry treatment apparatus to suspend working in a process of flushing the drying and filtering device (6).

2. The control method for the laundry treatment apparatus according to claim 1, wherein the laundry treatment apparatus comprises an inflow water passage and a drainage water passage (5), the flushing water passage (4) is communicated with the inflow water passage, and the drying and filtering device (6) is communicated with the drainage water passage (5) through a connecting pipe (7); and

   the laundry treatment apparatus is detected that the first laundry treatment device (2) finishes laundry drying and the second laundry treatment device (3) conducts a laundry washing process, and then the flushing water passage (4) is controlled to be conductive to flush the drying and filtering device (6) when the second laundry treatment device (3) is in drainage process; or
   the laundry treatment apparatus is detected that the second laundry treatment device (3) finishes laundry drying and the first laundry treatment device (2) conducts a laundry washing process, and then the flushing water passage (4) is controlled to be conductive to flush the drying and filtering device (6) when the first laundry treatment device (2) is in drainage process.

3. The control method for the laundry treatment apparatus according to claim 2, wherein the laundry washing process comprises a plurality of drainage stages, the laundry treatment apparatus selects a target drainage stage from the drainage stages, and
   when the laundry washing process enters the target drainage stage, the drying and filtering device (6) is controlled to be flushed.

4. The control method for the laundry treatment apparatus according to any one of claims 1-3, wherein the laundry treatment apparatus is detected that the first laundry treatment device (2) finishes laundry drying and the second laundry treatment device (3) conducts a drying process, or that the second laundry treatment device (3) finishes laundry drying and the first laundry treatment device (2) conducts a drying process; and then
   the drying and filtering device (6) is controlled to be flushed when the drying process is finished, or, the laundry treatment apparatus controls the drying process to be suspended and the drying and filtering device (6) is flushed.

5. The control method for the laundry treatment apparatus according to claim 1, wherein, during the alternative operation of the first laundry treatment device (2) and the second laundry treatment device (3),

the drying fan suspends working, when a laundry treatment barrel of the first laundry treatment device (2) suspends or finishes rotation and the laundry treatment barrel of the second laundry treatment device (3) starts rotation, or when a laundry treatment barrel of the second laundry treatment device (3) suspends or finishes rotation and the laundry treatment barrel of the first laundry treatment device (2) starts rotation,
the laundry treatment apparatus controls the drying and filtering device (6) to be flushed, and controls the drying fan to work when flushing the drying and filtering device (6) is finished.

6. The control method for the laundry treatment apparatus according to any one of claims 1-3, wherein the laundry treatment apparatus is detected that the first laundry treatment device (2) finishes laundry drying and the first laundry treatment device (2) is in a standby state, and then the drying and filtering device (6) is directly controlled to be flushed, or
the laundry treatment apparatus is detected that the second laundry treatment device (3) finishes laundry drying and the first laundry treatment device (2) is in a standby state, or and then the drying and filtering device (6) is directly controlled to be flushed.

7. The control method for the laundry treatment apparatus according to any one of claims 1-3, wherein the first laundry treatment device (2) and the second laundry treatment device (3) are arranged from top to bottom,

the second laundry treatment device (3) is connected with the drainage water passage (5), a drainage control device (8) is arranged on the drainage water passage (5),
the drying and filtering device (6) is connected with the drainage water passage (5) through the connecting pipe (7) and located at the upstream or downstream of the drainage control device (8).

8. The control method for the laundry treatment apparatus according to claim 7, wherein, the drainage control device (8) is a drainage valve, the connecting pipe (7) is connected with the drainage water passage (5) and located at the upstream of the drainage valve, and the laundry treatment apparatus controls the drainage valve to be switched on when the drying and filtering device (6) is flushed,; or
the connecting pipe (7) is connected with the drainage water passage (5) and located at the downstream of the drainage valve, and the laundry treatment apparatus directly controls the drying and filtering device (6) to be flushed when the first laundry treatment device (2) finishes laundry drying.

9. The control method for the laundry treatment apparatus according to claim 7, wherein the drainage control device (8) is a drainage pump, the connecting pipe (7) is connected with the drainage water passage (5) and located at the upstream or downstream of the drainage pump, and the laundry treatment apparatus controls the drainage pump to be started when flushing the drying and filtering device (6) is finished.

Patentansprüche

1. Steuerungsverfahren für eine Wäschebehandlungsvorrichtung, wobei die Wäschebehandlungsvorrichtung eine erste Wäschebehandlungseinrichtung (2), eine zweite Wäschebehandlungseinrichtung (3), eine Trocknungs- und Filtereinrichtung (6) und einen Spülwasserkanal (4) zum Spülen der Trocknungs- und Filtereinrichtung (6) aufweist und

das Steuerungsverfahren umfasst: Steuern des Spülwasserkanals (4), sodass die Trocknungs- und Filtereinrichtung (6) gespült wird, entsprechend Betriebszuständen der ersten Wäschebehandlungseinrichtung (2) und der zweiten Wäschebehandlungseinrichtung (3) durch die Wäschebehandlungsvorrichtung, **dadurch gekennzeichnet, dass**,
wenn sowohl die erste Wäschebehandlungseinrichtung (2) als auch die zweite Wäschebehandlungseinrichtung (3) den Trocknungsprozess durchführen, die erste Wäschebehandlungseinrichtung (2) und die zweite Wäschebehandlungseinrichtung (3) den Trocknungsprozess wechselweise durchführen und
die Wäschebehandlungsvorrichtung beim Wechsel zwischen dem Betrieb der ersten Wäschebehandlungseinrichtung (2) und dem Betrieb der zweiten Wäschebehandlungseinrichtung (3) die Trocknungs- und Filtereinrichtung (6) steuert, sodass sie gespült wird, wobei die Wäschebehandlungsvorrichtung einen Trocknungslüfter aufweist und der Trocknungslüfter von der Wäschebehandlungsvorrichtung gesteuert wird, sodass er in einem Prozess des Spülens der Trocknungs- und Filtereinrichtung (6) die Arbeit unterbricht.

2. Steuerungsverfahren für die Wäschebehandlungsvorrichtung nach Anspruch 1, wobei die Wäschebehandlungsvorrichtung einen Zulaufwasserkanal und einen Entwässerungswasserkanal (5) aufweist, wo-

bei der Spülwasserkanal (4) mit dem Zulaufwasserkanal verbunden ist und die Trocknungs- und Filtereinrichtung (6) durch ein Verbindungsrohr (7) mit dem Entwässerungswasserkanal (5) verbunden ist; und

die Wäschebehandlungsvorrichtung erkennt, dass die erste Wäschebehandlungseinrichtung (2) das Wäschetrocknen beendet und die zweite Wäschebehandlungseinrichtung (3) einen Wäschewaschprozess durchführt, und dann der Spülwasserkanal (4) derart gesteuert wird, dass er leitfähig ist, um die Trocknungs- und Filtereinrichtung (6) zu spülen, wenn die zweite Wäschebehandlungseinrichtung (3) im Entwässerungsprozess ist; oder
die Wäschebehandlungsvorrichtung erkennt, dass die zweite Wäschebehandlungseinrichtung (3) das Wäschetrocknen beendet und die erste Wäschebehandlungseinrichtung (2) einen Wäschewaschprozess durchführt, und dann der Spülwasserkanal (4) derart gesteuert wird, dass er leitfähig ist, um die Trocknungs- und Filtereinrichtung (6) zu spülen, wenn die erste Wäschebehandlungseinrichtung (2) im Entwässerungsprozess ist.

3. Steuerungsverfahren für die Wäschebehandlungsvorrichtung nach Anspruch 2, wobei der Wäschewaschprozess mehrere Entwässerungsstufen umfasst, die Wäschebehandlungsvorrichtung eine Ziel-Entwässerungsstufe aus den Entwässerungsstufen auswählt und,
wenn der Wäschewaschprozess in die Ziel-Entwässerungsstufe eintritt, die Trocknungs- und Filtereinrichtung (6) derart gesteuert wird, dass sie gespült wird.

4. Steuerungsverfahren für die Wäschebehandlungsvorrichtung nach einem der Ansprüche 1 bis 3, wobei die Wäschebehandlungsvorrichtung erkennt, dass die erste Wäschebehandlungseinrichtung (2) das Wäschetrocknen beendet und die zweite Wäschebehandlungseinrichtung (3) einen Trocknungsprozess durchführt oder dass die zweite Wäschebehandlungseinrichtung (3) das Wäschetrocknen beendet und die erste Wäschebehandlungseinrichtung (2) einen Trocknungsprozess durchführt; und dann die Trocknungs- und Filtereinrichtung (6) derart gesteuert wird, dass sie gespült wird, wenn der Trocknungsprozess beendet ist, oder die Wäschebehandlungsvorrichtung den Trocknungsprozess derart steuert, dass er unterbrochen wird, und die Trocknungs- und Filtereinrichtung (6) gespült wird.

5. Steuerungsverfahren für die Wäschebehandlungsvorrichtung nach Anspruch 1, wobei während des alternativen Betriebs der ersten Wäschebehandlungseinrichtung (2) und der zweiten Wäschebehandlungseinrichtung (3)

der Trocknungslüfter die Arbeit unterbricht, wenn eine Wäschebehandlungstrommel der ersten Wäschebehandlungseinrichtung (2) ihre Drehung unterbricht oder beendet und die Wäschebehandlungstrommel des zweiten Wäschebehandlungsgeräts (3) ihre Drehung beginnt oder wenn eine Wäschebehandlungstrommel der zweiten Wäschebehandlungseinrichtung (3) ihre Drehung unterbricht oder beendet und die Wäschebehandlungstrommel des ersten Wäschebehandlungsgeräts (2) ihre Drehung beginnt,
und die Wäschebehandlungsvorrichtung die Trocknungs- und Filtereinrichtung (6) derart steuert, dass sie gespült wird, und den Trocknungslüfter derart steuert, dass er arbeitet, wenn das Spülen der Trocknungs- und Filtereinrichtung (6) beendet ist.

6. Steuerungsverfahren für die Wäschebehandlungsvorrichtung nach einem der Ansprüche 1 bis 3, wobei die Wäschebehandlungsvorrichtung erkennt, dass die erste Wäschebehandlungseinrichtung (2) das Wäschetrocknen beendet hat und die erste Wäschebehandlungseinrichtung (2) sich in einem Wartezustand befindet, und dann die Trocknungs- und Filtereinrichtung (6) direkt gesteuert wird, sodass sie gespült wird, oder
die Wäschebehandlungsvorrichtung erkennt, dass die zweite Wäschebehandlungseinrichtung (3) das Wäschetrocknen beendet und die erste Wäschebehandlungseinrichtung (2) sich in einem Wartezustand befindet, und dann die Trocknungs- und Filtereinrichtung (6) direkt gesteuert wird, sodass sie gespült wird.

7. Steuerungsverfahren für die Wäschebehandlungsvorrichtung nach einem der Ansprüche 1 bis 3, wobei die erste Wäschebehandlungseinrichtung (2) und die zweite Wäschebehandlungseinrichtung (3) von oben nach unten angeordnet sind,

die zweite Wäschebehandlungseinrichtung (3) mit dem Entwässerungswasserkanal (5) verbunden ist, eine Entwässerungssteuereinrichtung (8) an dem Entwässerungswasserkanal (5) angeordnet ist und
die Trocknungs- und Filtereinrichtung (6) durch das Verbindungsrohr (7) mit dem Entwässerungswasserkanal (5) verbunden ist und sich in Fließrichtung vor oder hinter der Entwässerungssteuereinrichtung (8) befindet.

8. Steuerungsverfahren für die Wäschebehandlungsvorrichtung nach Anspruch 7, wobei die Entwässe-

rungssteuereinrichtung (8) ein Entwässerungsventil ist, das Verbindungsrohr (7) mit dem Entwässerungswasserkanal (5) verbunden ist und sich in Fließrichtung vor dem Entwässerungsventil befindet und die Wäschebehandlungsvorrichtung das Entwässerungsventil steuert, sodass es eingeschaltet wird, wenn die Trocknungs- und Filtereinrichtung (6) gespült wird; oder
das Verbindungsrohr (7) mit dem Entwässerungswasserkanal (5) verbunden ist und sich in Fließrichtung nach dem Entwässerungsventil befindet und die Wäschebehandlungsvorrichtung die Trocknungs- und Filtereinrichtung (6) direkt steuert, sodass sie gespült wird, wenn die erste Wäschebehandlungseinrichtung (2) das Wäschetrocknen beendet.

9. Steuerungsverfahren für die Wäschebehandlungsvorrichtung nach Anspruch 7, wobei die Entwässerungssteuereinrichtung (8) eine Entwässerungspumpe ist, das Verbindungsrohr (7) mit dem Entwässerungswasserkanal (5) verbunden ist und sich in Fließrichtung vor oder hinter der Entwässerungspumpe befindet und die Wäschebehandlungsvorrichtung die Entwässerungspumpe steuert, sodass sie gestartet wird, wenn das Spülen der Trocknungs- und Filtereinrichtung (6) beendet ist.

Revendications

1. Un procédé de commande pour un appareil de traitement de linge, dans lequel l'appareil de traitement de linge comprend un premier dispositif de traitement de linge (2), un deuxième dispositif de traitement de linge (3), un dispositif de séchage et de filtration (6) et un passage d'eau de rinçage (4) pour le rinçage du dispositif de séchage et de filtration (6), et

le procédé de commande comprend: la commande du passage d'eau de rinçage (4) permettant le rinçage du dispositif de séchage et de filtrage (6) selon les états de fonctionnement du premier dispositif de traitement de linge (2) et du deuxième dispositif de traitement du linge (3) par l'appareil de traitement de linge, **caractérisé en ce que**
lorsque les deux le premier dispositif de traitement de linge (2) et le deuxième dispositif de traitement du linge (3) réalisent le processus de séchage, le premier dispositif traitement de linge (2) et le deuxième dispositif de traitement de linge (3) fonctionnent en alternance pendant le processus de séchage, et
l'appareil de traitement de linge commande le dispositif de séchage et de filtration (6) de manière à permettre son rinçage lors de la commutation entre les opérations du premier dispositif de traitement de linge (2) et le deuxième dispositif de traitement du linge (3), dans lequel l'appareil de traitement de linge comprend un ventilateur de séchage, le ventilateur de séchage est commandé par l'appareil de traitement de linge de manière à arrêter son fonctionnement dans un processus de rinçage du dispositif de séchage et de filtration (6).

2. Le procédé de commande pour l'appareil de traitement de linge selon la revendication 1, dans lequel l'appareil de traitement de linge comprend un passage d'admission d'eau et un passage d'évacuation d'eau (5), le passage d'eau de rinçage (4) communique avec le passage d'évacuation d'eau, et le dispositif de séchage et de filtration (6) communique avec le passage d'évacuation d'eau (5) par un tuyau de raccordement (7); et

l'appareil de traitement de linge identifie quand le premier dispositif de traitement de linge (2) termine le séchage du linge et quand le deuxième dispositif de traitement de linge (3) effectue un processus de lavage du linge, et ensuite le passage d'eau de rinçage (4) est commandé de manière à procéder au rinçage du dispositif de séchage et de filtration (6) au moment où le deuxième dispositif de traitement de linge (3) réalise le processus d'évacuation; ou
l'appareil de traitement de linge identifie quand le deuxième dispositif de traitement de linge (3) termine le séchage du linge et quand le premier dispositif de traitement de linge (2) effectue une processus de lavage du linge, et ensuite le passage d'eau de rinçage (4) est commandé de manière à procéder au rinçage du dispositif de séchage et de filtration (6) au moment où le premier dispositif de traitement de linge (2) réalise le processus d'évacuation.

3. Le procédé de commande pour l'appareil de traitement de linge selon la revendication 2, dans lequel le processus de lavage du linge comprend une pluralité de phases d'évacuation, l'appareil de traitement de linge sélectionne une phase cible d'évacuation parmi les phases d'évacuation, et
lorsque le processus de lavage du linge entre dans la phase cible d'évacuation, le le dispositif de séchage et de filtration (6) est commandé de manière à être rincé.

4. Le procédé de commande pour l'appareil de traitement de linge selon l'une quelconque des revendications 1 à 3, dans lequel l'appareil de traitement de linge identifie quand le premier dispositif de traitement de linge (2) termine le séchage du linge et quand le deuxième dispositif de traitement de linge

(3) effectue un processus de séchage, ou quand le deuxième dispositif de traitement de linge (3) termine le séchage du linge et le premier dispositif de traitement de linge (2) effectue un processus de séchage; et ensuite
le dispositif de séchage et de filtration (6) est commandé de manière être rincé lorsque le processus de séchage est terminé, ou, l'appareil de traitement de linge commande le processus de séchage de manière à être suspendu et le dispositif de séchage et de filtration (6) de manière à être rincé.

5. Le procédé de commande pour l'appareil de traitement de linge selon la revendication 1, dans lequel, lors du fonctionnement alternatif du premier dispositif de traitement de linge (2) et du deuxième dispositif de traitement de linge (3),

le ventilateur de séchage interrompt son fonctionnement, lorsqu'un tambour de traitement de linge du premier dispositif de traitement de linge (2) interrompt ou termine la rotation et le tambour de traitement de linge du deuxième dispositif de traitement de linge (3) commence à tourner, ou lorsqu'un tambour de traitement de linge du deuxième dispositif de traitement de linge (3) interrompt ou termine la rotation et le tambour de traitement de linge du premier dispositif de traitement de linge (2) commence à tourner,
l'appareil de traitement de linge commande le dispositif de séchage et de filtration (6) de manière à être rincé, et commande le ventilateur de séchage de manière à fonctionner lorsque le rinçage du dispositif de séchage et de filtration (6) est terminé.

6. Le procédé de commande pour l'appareil de traitement de linge selon l'une quelconque des revendications 1 à 3, dans lequel l'appareil de traitement de linge identifie quand le premier dispositif de traitement de linge (2) termine le séchage du linge et quand le premier dispositif de traitement de linge (2) est en état de veille, ensuite le dispositif de séchage et de filtration (6) est directement commandé de manière à être rincé, ou
l'appareil de traitement de linge identifie quand le deuxième dispositif de traitement de linge (3) termine le séchage du linge et quand le premier dispositif de traitement de linge (2) se trouve dans un état de veille, ou ensuite le dispositif de séchage et de filtration (6) est directement commandé de manière à être rincé.

7. Le procédé de commande pour l'appareil de traitement de linge selon l'une quelconque des revendications 1 à 3, dans lequel le premier dispositif de traitement de linge (2) et le deuxième dispositif de traitement de linge (3) sont disposés de haut en bas, le deuxième dispositif de traitement de linge (3) est raccordé au passage d'évacuation d'eau (5), un dispositif de commande d'évacuation (8) est disposé sur le passage d'évacuation d'eau (5), le dispositif de séchage et de filtration (6) est relié au passage d'évacuation d'eau (5) par le tuyau de raccordement (7) et situé en amont ou en aval du dispositif de commande d'évacuation (8).

8. Le procédé de commande pour l'appareil de traitement de linge selon la revendication 7, dans lequel, le dispositif de commande d'évacuation (8) est une vanne d'évacuation, le tuyau de raccordement (7) est relié au passage d'évacuation d'eau (5) et situé en amont de la vanne d'évacuation, et l'appareil de traitement de linge commande la vanne d'évacuation de manière à l'activer lorsque le dispositif de séchage et de filtration (6) est rincé; ou
le tuyau de raccordement (7) est relié au passage d'évacuation d'eau (5) et situé en aval de la vanne d'évacuation et l'appareil de traitement de linge commande directement le dispositif de séchage et de filtration (6) de manière à être rincé lorsque le premier dispositif de traitement de linge (2) termine le séchage du linge.

9. Le procédé de commande pour l'appareil de traitement de linge selon la revendication 7, dans lequel le dispositif de commande d'évacuation (8) est une pompe d'évacuation, le tuyau de raccordement (7) est relié au passage d'évacuation d'eau (5) et situé en amont ou en en aval de la pompe d'évacuation, et l'appareil de traitement de linge commande la pompe d'évacuation de manière à la mettre en marche lorsque le rinçage du dispositif de séchage et de filtration (6) est terminé.

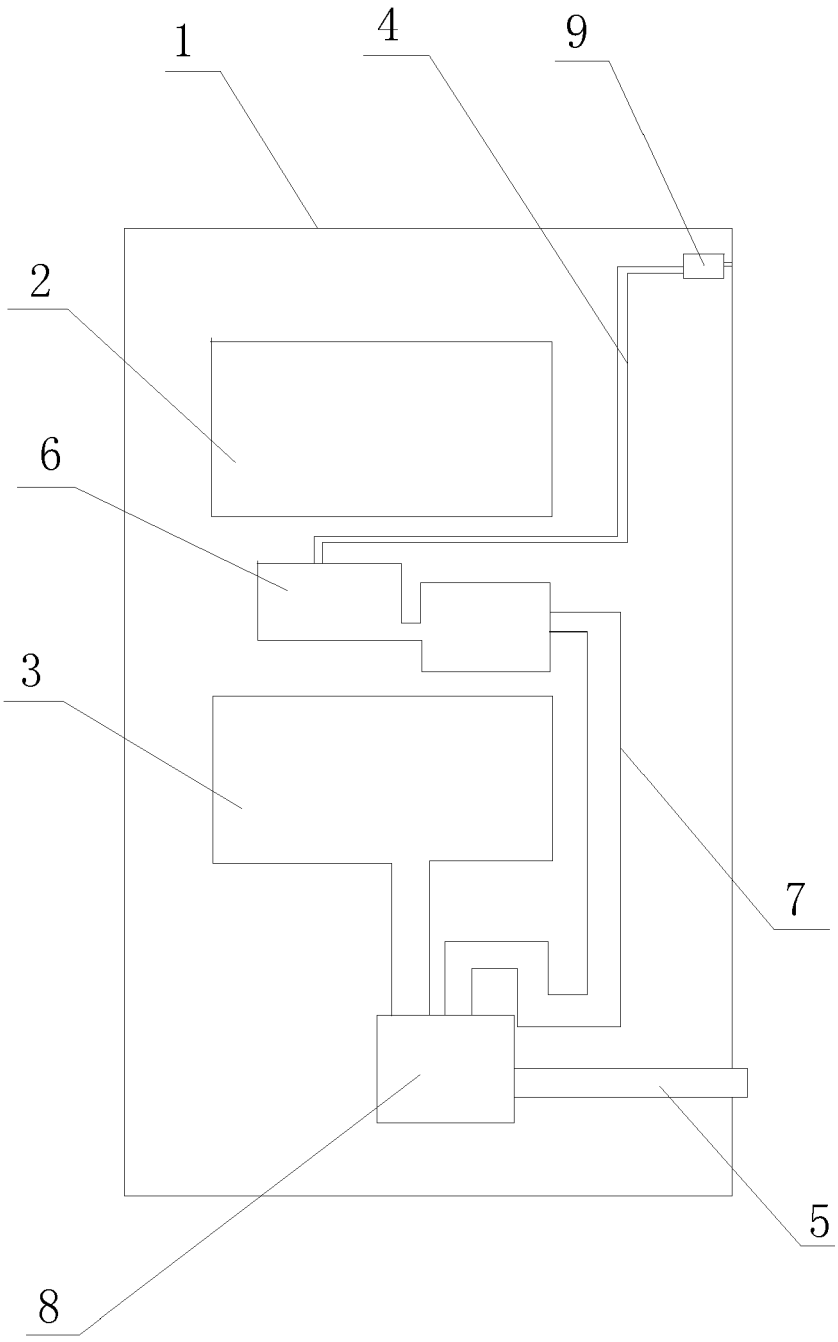

Figure 1

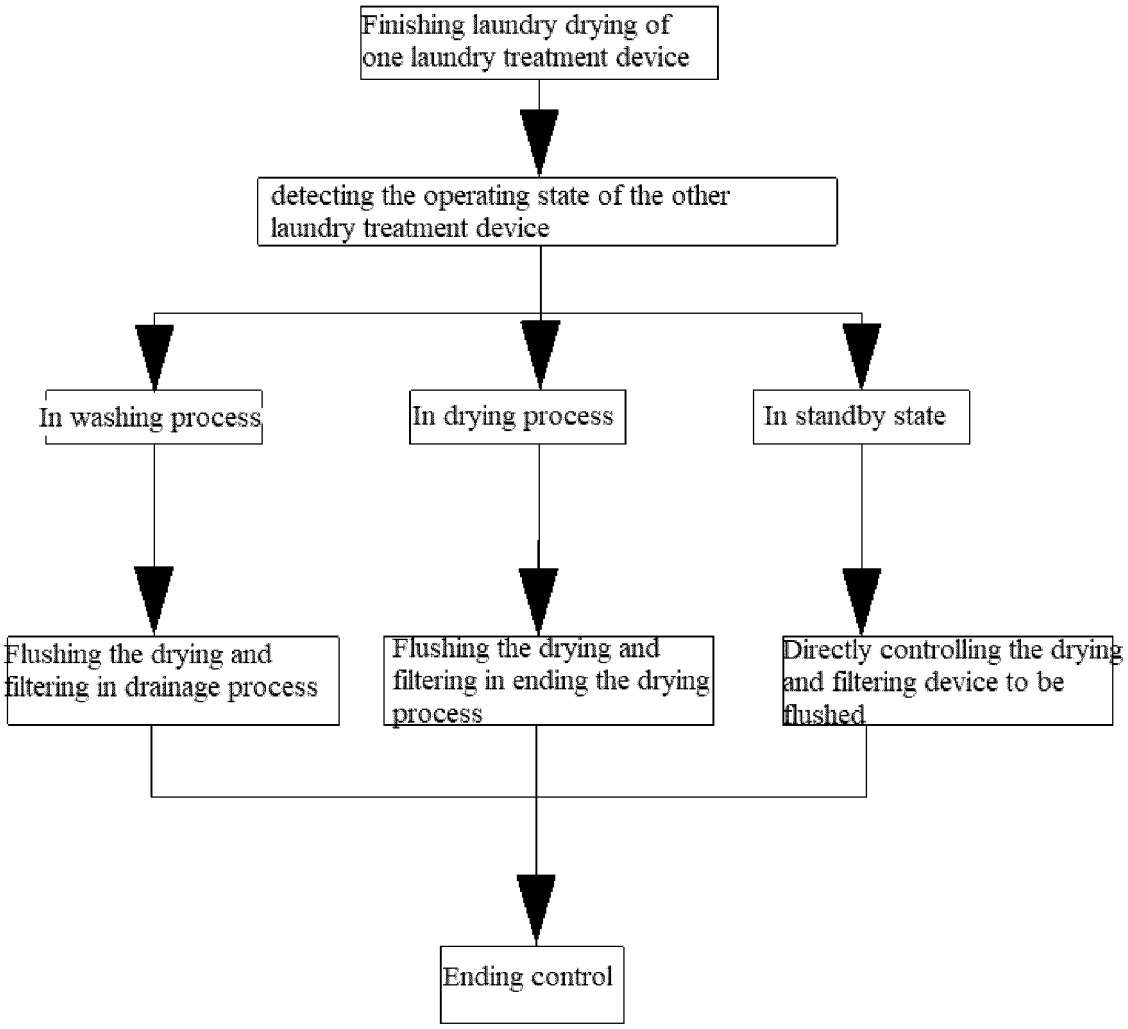
Finishing laundry drying of one laundry treatment device
detecting the operating state of the other laundry treatment device
In washing process
In drying process
In standby state
Flushing the drying and filtering in drainage process
Flushing the drying and filtering in ending the drying process
Directly controlling the drying and filtering device to be flushed
Ending control

Figure 2

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

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