The present invention relates to a multi-function towel and storage rack, includes a pair of fixing seats oppositely provided; a main rack member having a pair of main supporting racks, each of the main supporting racks is vertically connected to a front end of the fixing seat, and at least one fixing rod is provided between the pair of main supporting racks, a proper location on each of the fixing rods has a positioning hole, and an outer end of one of the main supporting racks is provided with a retractable hole with respect to an open end of each of the fixing rods; at least one retractable rod passed through the retractable hole and sleeve in the fixing rod, an inner end of each of the retractable rods is provided with a buckling member with respect to the locations where the positioning holes are provided; so when the buckling member is buckled in or released from the positioning hole, the retractable rod is extended from the main supporting rack provided at one end of the main rack member or is retracted in the fixing rod.
MULTI-FUNCTION TOWEL AND STORAGE RACK

BACKGROUND OF THE INVENTION

[0001] 1. Field of the Invention

[0002] The present invention relates to a towel and storage rack, more particularly to a multi-function towel and storage rack capable of being assembled by a user according to the user's habits and space designs.

[0003] 2. Description of Related Art

[0004] A towel rack is often installed on a wall of a bathroom or kitchen for hanging towels or wipers; a conventional installing means is that two fixing seats are fixed on a wall and at least one rod member is provided in between, so a towel or a wiper can be folded and hanged on the rod member. Regardless the towel rack has one rod member, or plural rod members, the length of the rod member is fixed and is not able to be extended or retracted according to the space designs of the bathroom or kitchen, so for a family having many members, towels are often stacked on each other because of the limited hanging space provided by a towel rack, so the towels are not easy to dry, mold or germs are likely to formed, and a top portion of a non-open type towel rack is served for storing objects so an operation of towel hanging is not convenient.

[0005] Skilled people in the art have developed a rack member combining a towel rack and a storage rack, a frame member having an open end is provided at front ends of two fixing seats, two ends of the frame member are in parallel provided with plural rod members, so a towel and storage rack is obtained, the top end of the rod member can be served to store objects, e.g. cloths, and each of the rod members can be served to hang towels. The disadvantage of said towel and storage rack is that the length of the frame member and the lengths of the rod members are all fixed so can be used to satisfy space designs.

[0006] And for hanging towels or wipers, people use either their right hands or left hands according to their using habits, so a multi-function towel and storage rack capable of meeting space designs and user's using habits shall be developed.

SUMMARY OF THE INVENTION

[0007] The applicant of the present invention has devoted himself to overcome disadvantages that lengths of a conventional towel rack or a towel and storage rack is fixed and not able to be flexibly used according to space designs, after trial and error, the towel and storage rack is provided by the present invention.

[0008] One object of the present invention is to provide a multi-function towel and storage rack, either side of a main rack member is moveably provided with at least one retractable rod, so the retractable rod is able to be extended from a main supporting rack provided at one side of the main rack member or retracted in a fixing rod, needs for spaces designs are therefore satisfied.

[0009] Another object of the present invention is to provide a multi-function towel and storage rack capable of meeting using habits of users, a secondary rack member can be provided at a bottom end of a fixing seat so a dual-layer rack member is obtained, the secondary rack member is in an open status and is able to be installed according to hand-using habits of users.

[0010] For achieving the above mentioned objects, a multi-function towel and storage rack is provided by the present invention, includes a pair of fixing seats oppositely provided; a main rack member having a pair of main supporting racks, each of the main supporting racks is vertically connected to a front end of the fixing seat, and at least one fixing rod is provided between the pair of main supporting racks, a proper location on each of the fixing rods has a positioning hole, and an outer end of one of the main supporting racks is provided with a retractable hole with respect to an open end of each of the fixing rods; at least one retractable rod passed through the retractable hole and sleeved in the fixing rod, an inner end of each of the retractable rods is provided with a buckling member with respect to the locations where the positioning holes are provided; so when the buckling member is buckled on or released from the positioning hole, the retractable rod is extended from the main supporting rack provided at one end of the main rack member or is retracted in the fixing rod.

[0011] Another solution provided by the present invention is to provide a multi-function towel and storage rack, includes a pair of fixing seats oppositely provided; a main rack member having a pair of main supporting racks, each of the main supporting racks is vertically connected to a front end of the fixing seat, and at least one fixing rod is provided between the pair of main supporting racks; a secondary supporting rack provided at a bottom end of the main rack member, having a secondary supporting rack vertically connected to a front end of either of the fixing seats, and at least one hanging rod provided at an inner side of the secondary supporting rack, the length of each of the hanging rods is shorter than the length of the fixing rod and an inner end thereof has a sealed edge, so a open-type rack member is obtained.

[0012] One another solution provided by the present invention is to provide a multi-function towel and storage rack, includes a fixing seat having an opening for being fixed on a surface; a main supporting rack vertically connected to a front end of the fixing seat via the opening, one end thereof has at least one fixing hole; and at least one fixing rod, one end thereof is provided on the main supporting rack via the fixing hole, the other end thereof is served to hang towels or store objects.

[0013] One another solution provided by the present invention is to provide a multi-function towel and storage rack, includes a fixing seat having an opening for being fixed on a surface; a main supporting rack vertically connected to a front end of the fixing seat via the opening, two ends thereof respectively have at least one fixing hole; and at least one fixing rod, one end thereof is provided on one side of the main supporting rack via the fixing hole, and the fixing rod has a positioning hole; and at least one retractable rod capable of being sleeved in the fixing rod via the fixing hole provided at the other side of the main supporting rack, and an inner end of each of the retractable rods is provided with a buckling member with respect to the locations where the positioning holes are provided; when the buckling member is buckled on or released from the positioning hole, the retractable rod is extended from the main supporting rack provided at one end of the main rack member or is retracted in the fixing rod as to to hang towels or store objects.

BRIEF DESCRIPTION OF THE DRAWINGS

[0014] FIG. 1 is a 3D exploded view of the multi-function towel and storage rack provided by the present invention;

[0015] FIG. 2 is a 3D view of the present invention after being assembled and the retractable rod is in an extended status;
FIG. 3 is another 3D view of the present invention after being assembled and the retractable rod is in a retracted status;

FIG. 4 is a cross sectional view of FIG. 2 intercepted along an A-A line;

FIG. 5 is a cross sectional view of FIG. 3 intercepted along a B-B line;

FIG. 6 is a 3D view of another prospect of the multifunction towel and storage rack provided by the present invention;

FIG. 7 is a 3D view of another prospect of the multifunction towel and storage rack provided by the present invention;

FIG. 8 is a 3D view of another prospect of the multifunction towel and storage rack provided by the present invention;

FIG. 9 is a 3D view of the secondary rack member of another embodiment of the multifunction towel and storage rack provided by the present invention;

FIG. 10 is a 3D exploded view of another preferred embodiment of the multifunction towel and storage rack;

FIG. 11 is a 3D view of the multifunction towel and storage rack shown in FIG. 10, after being assembled;

FIG. 12 is a 3D exploded view of one another preferred embodiment of the multifunction towel and storage rack of the present invention;

FIG. 13 is a 3D view of the preferred embodiment shown in FIG. 12 being assembled and the retractable rod is in an extended status;

FIG. 14 is a 3D view of the preferred embodiment shown FIG. 12 being assembled and the retractable rod is in a retracted status;

FIG. 15 is a cross sectional view of FIG. 13 intercepted alone an A-A line;

FIG. 16 is a cross sectional view of FIG. 14 intercepted alone a B-B line.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

As shown from FIG. 1 to FIG. 5, the multifunction towel and storage rack provided by the present invention includes a pair of fixing seats 1, a main rack member 2 and at least one retractable rod 3. According to using habits of a user, the multi-functional towel and storage rack can be further provided with a secondary rack member 4 and/or a hanging ring device 5, so the multi-function towel and storage rack provided by the present invention is in a dual layer status.

The two fixing seats 1 are oppositely disposed so the main rack member 2 is able to be extended from front ends of the fixing seats 1; wherein each of the fixing seats 1 is a vertical sheet, a main supporting rack 21 of the main rack member 2 is vertically extended from each of the fastening seats 1, each of the main supporting racks 21 and the corresponding fixing seat 1 are connected via a screw-fitting means but not limited to said means, the fixing seat 1 and the main supporting rack 21 can also be connected via a welding means. As shown in FIG. 1, the pair of fixing seats 1 is screw-fitted on a wall with a conventional screw-fitting means that a screw-fitting section of a screw is passed through the fixing seat 1 then is screw-fitted in a plastic expanding member preset in a drilled hole on the wall, so each of the fixing seats 1 is able to be stably fixed on the wall, then a connecting member combined with the outer end of the screw-fitting section of the screw is screw-fitted with a wall button, so the connecting position of the fixing seat 1 and the wall is able to be embellished.

The difference between the main supporting rack 21 of the present invention and a conventional supporting rack is that one of the main supporting racks 21 is transversely and thoroughly provided with at least one pair of fixing holes 211, an inner end and an outer end of the other main supporting rack 21 are respectively provided with at least one pair of fixing holes 211 and retractable holes 212 communicating with the fixing holes 211, as shown in FIG. 1, each of the main supporting racks 21 is in parallel provided with four pairs of holes for being connected to four fixing rods 22 and retractable rods 3.

The fixing rod 22 is a pipe member having a rectangular cross section, an outer end of the fixing rod 22 is provided with an ending member 221 having a caliber larger than the caliber of the fixing hole 211, and an inner middle portion of the fixing rod 22, preferably an inner lateral side, is provided with a positioning hole 212. When being assembled, each of the fixing rods 22 is passed through one pair of the fixing holes 211 of the main supporting rack 21, so the ending member 221 is provided against the fixing hole 211 disposed at the outer end of the main supporting rack 21; the other end of the fixing rod 22 is passed through the fixing holes 211 of the other main supporting rack 21 and is provided against an inner wall of the retractable hole 212, so the two ends of the fixing rod 22 are respectively fixed on one of the main supporting racks 21 and an opening 223 provided at an inner end of the fixing rod 22 is aimed to the retractable hole 212.

The retractable rod 3 is a rectangular pipe member having an outer caliber with respect to the internal caliber of the fixing rod 22, an outer end of thereof is also provided with an ending member 31 having a caliber larger than the caliber of the retractable hole 212, and an inner side thereof is provided with a buckling member 32 with respect to the location where the positioning hole 222 is provided, as shown in FIG. 4, the buckling member 32 is that a sleeve 321 having an opening being provided with a resilient member therein(not shown), e.g. a spring, and a buckling ball 322 is provided between the resilient member and a cover 323 fixed on the opening, and part of the buckling ball 322 is exposed to outside for being buckled in the positioning hole 222.

When being assembled, each of the retractable rods 3 is sleeved in from the retractable holes 212 of one of the main supporting racks 21 and sleeved in the opening 223 of the fixing rod 22, when the buckling member 32 is moved to the positioning hole 222, the buckling ball 322 is bounced due to an elastic force and is buckled in the positioning hole 222, thus a status as shown in FIG. 2 is obtained. The retractable rods 3 are extended from the right side of the main rack member 2; wherein the main rack member 2 formed by the plural fixing rods 22 in parallel provided on the two main supporting racks 21 is able to be served as a storage rack; outer ends of the plural extractable rods 3 that are lateral extended are in an open status, so towels are able to be received and hanged from the lateral end of each of the extractable rods 3. For increasing storage spaces of the present invention, a top end and a bottom end of the pair of fixing seats 1 can be respectively provided with a main rack member 2, so each of the fixing rods 22 is connected to an extractable rod 3, the towel and storage rack provided by the present invention is therefore provided with double spaces for storing and hanging objects.
As shown from FIG. 3 to FIG. 5, if the retractable rod 3 is desired to be extracted in the fixing rod 22, a force is applied on each of the retractable rods 3 so the buckling ball 322 of the buckling member 32 is pressed by the positioning hole 222 and retracted into the sleeve 321, so the whole retractable rod 3 is retracted in the fixing rod 22 so as to reduce spaces occupied. A user can individually operate the retractable rods 3 to meet the desired quantity of towels or bath towels to be hanged or stored.

As shown in FIG. 1, the towel and storage rack provided by the present invention further comprises an open-type secondary rack member 4, composed by a secondary supporting rack 41 and at least one hanging rod 42.

The secondary supporting rack 41 is connected to bottom ends of the fixing seats 1 with the same means as the main supporting rack 21 being connected to the fixing seats 1, and the at least one hanging rod 42 is provided at an inner end of the secondary supporting rack 41; wherein the length of each of the hanging rods 42 is shorter than the length of the fixing rods 22. As shown in FIG. 1, for increasing the quantity of towels to be hanged, the secondary supporting rack 41 is transversely provided with a plurality of the hanging rods 42 having sealed edges 421 at inner ends, so towels are able to be received and hanged on each of the hanging rods 42 from the inner ends of the hanging rods 42.

Referring to FIG. 1 and FIG. 2, the secondary rack member 4 is able to be provided with the main rack member 2 having functions of retracting and folding so as to obtain a dual-layer rack member. The present invention further includes a hanging ring device 5, a ring rack 51 is vertically provided at a bottom end of the fixing seat 1, and a front end of the ring rack 51 is pivotally connected with a hanging hook 52, so towels are able to be hanged in the hanging hook 52 for rubbing hands.

As shown in FIG. 3, a top end of the secondary rack member 4 is able to be provided with a conventional main rack member 2, e.g. at least one fixing rod 22 being provided between two main supporting racks 21, so a dual-layer rack member is obtained.

As shown in FIG. 6, which is another prospect of the present invention, locations where the secondary rack member 4 and the hanging ring device 5 provided at the bottom layer of the main rack member 2 are interchanged, so a hanging operation for a user who uses his right hand to hang towels is more convenient. As shown in FIG. 3, the means for providing the secondary rack member 4 is easier for a user who uses his left hand to hang towels.

As shown in FIG. 7, which is one another prospect of the present invention, locations where the two fixing seats 1, the plural fixing rods 22 and the plural retractable rods 3 provided are interchanged, so the extractable rods 3 are extended or retracted from the left side of the main rack member 2, thus the towel and storage rack provided by the present invention is capable of being adjusted according to actual needs to dispose the extractable rods 3 at either side of the main rack member 2. As shown in FIG. 2 and FIG. 7, the described arrangement not only meets space variation but also meets the using habit of a user.

As shown in FIG. 8, which is one another prospect of the present invention, the difference between FIG. 7 and FIG. 8 is that locations where the secondary rack member 4 and the hanging ring device 5 being disposed on the fixing seat 1 are interchanged; said difference is made while the towel and storage rack is assembled by a user with his own preferences.

As shown in FIG. 9, which is schematic view of the secondary rack member 4 of another embodiment of the present invention, the difference between the secondary rack member 4 shown in FIG. 9 and the secondary rack member 4 mentioned above is that the secondary supporting rack 41 is bended at an angle so is in a tilted status, therefore the plural hanging rods 42 extended from one end of the secondary supporting rack 41 have height variations, a special viewing sensation is therefore provided.

As shown in FIG. 10 and FIG. 11, which are schematic views of the multi-function towel and storage rack of another embodiment of the present invention; the multi-function towel and storage rack of the another embodiment of the present invention includes a fixing seat 1, a main supporting rack 21 and at least one fixing rod 22, wherein the described units having same unit numbers as what are numbered in FIG. 1 to FIG. 9 are the same units.

The fixing seat 1 has an opening 11 for being fixed on a surface, e.g. but not limited to a wall; the fixing seat 1 is a vertical sheet.

The main supporting rack 21 is vertically connected to a front end of the fixing seat 1 via the opening 11, one end thereof has at least one fixing hole 211, e.g. but not limited to the right side; the main supporting rack 21 and the fixing seat 1 are connected via a means of screw-fitting or via a resilient sheet, the fixing seat 1 and the main supporting rack 21 is also able to be connected via a welding means. As shown in FIG. 10, the fixing seat 1 is screw-fitted on a wall with a conventional screw-fitting means that a screw-fitting section of a screw is passed through the fixing seat 1 and is screw-fitted in a plastic expanding member preset in a drilled hole on the wall, so the fixing seat 1 is able to be stably fixed on the wall, then a connecting member combined with the outer end of the screw-fitting section of the screw is screw-fitted with a wall button, so the connecting position of the fixing seat 1 and the wall is able to be embellished.

One end of the fixing rod 22 is provided on one side or both sides of the main supporting rack 21 via the fixing hole 211, the other end thereof is served for hanging towels or storing objects; in this embodiment two fixing rods 22 are provided at the right side of the main supporting rack 21 for illustration not serving as a limitation, in fact a plurality of fixing rods 22 can be respectively provided at both sides of the main supporting rack 21, so both sides of the main supporting rack 21 can be used for hanging towels. The fixing rod 22 is a pipe having a rectangular cross section, an outer end thereof has an ending member 221. The quantity of the fixing rods 22 provided is relative to the actual needs, in this embodiment two fixing rods 22 are adopted for illustration and not served as a limitation.

When being assembled, each of the fixing rods 22 is passed through from the fixing hole 211 provided at the right side of the main supporting rack 21, so an end section thereof is stopped at the other end of the main supporting rack 21; then the ending member 211 is inserted in the end section of the fixing rods 22, the assembly is therefore complete and the fixing rod 22 is able to be used for hanging towels or storing objects.

As shown from FIG. 12 to FIG. 16, where are schematic views of the multi-function towel and storage rack of one another embodiment of the present invention. The multi-
function towel and storage rack of the one another embodiment of the present invention includes a fixing seat 6, a main supporting rack 7, at least one fixing rod 8 and at least one retractable rod 9.

[0051] The fixing seat 6 has an opening 61 for being fastened on a surface, e.g. but not limited to a wall; the fixing seat 6 is a vertical sheet.

[0052] The main supporting rack 7 is vertically connected to a front end of the fixing seat 6 via the opening 61, two ends thereof respectively has at least one fixing hole 71; the main supporting rack 7 and the fixing seat 6 are connected via a means of screw-fitting or via a resilient sheet, the fixing seat 6 and the main supporting rack 7 is also able to be connected via a welding means. As shown in FIG. 12, the fixing seat 6 is screw-fitted on a wall with a conventional screw-fitting means that a screw-fitting section of a screw is passed through the fixing seat 6 and is screw-fitted in a plastic expanding member preset in a drilled hole on the wall, so the fixing seat 6 is able to be stably fixed on the wall, then a connecting member combined with the outer end of the screw-fitting section of the screw is screw-fitted with a wall button, so the connecting position of the fixing seat 6 and the wall is able to be embellished.

[0053] One end of the fixing rod 8 is provided on one side of the main supporting rack 7 via the fixing hole 71, e.g. but not limited to a right side, and the fixing rod 8 has a positioning hole 81 which is provided at an inner side of the fixing rod 8 and close to an open end of the fixing rod 8. The fixing rod 8 is a pipe having a rectangular cross section, an outer end thereof has an ending member 82. The quantity of the fixing rods 8 provided is relative to the actual needs, in this embodiment two fixing rods 8 are adopted for illustration and not served as a limitation.

[0054] The at least one retractable rod 9 is received in the fixing rod 8 via the fixing hole 71 provided at the other end of the main supporting rack 7 (e.g. but not limited to a left side), an inner end of each of the retractable rods 9 is provided with a buckling member 91 with respect to the positioning hole 81; when the buckling member 91 is buckled in or released from the positioning hole 81, the retractable rod 9 is extended from or received in the fixing rod 8 from the other side of the main supporting rack 7, e.g. but not limited to a left side, so as to be used for hanging towels or storing objects.

[0055] The buckling member 91 further includes a resilient sheet 911 and a tenon 912, wherein the shape of the resilient sheet 911 is e.g. but not limited to a bow-shape, the resilient sheet 911 is disposed in the retractable rod 9 and close to the bottom end of the positioning hole 81; the tenon 912 is provided on a top end of the resilient sheet 911, and part of the tenon 912 is exposed outside of the positioning hole 81 for being buckled in the positioning hole 81.

[0056] When being assembled, each of the retractable rods 9 is sleeved in from the open end of the fixing rod 8, when the buckling member 91 is moved to the positioning hole 81, the tenon 912 is bounced via an elastic force and is buckled in the positioning hole 81, so a status shown in FIG. 13 is obtained, the retractable rods 9 are extended from the left side of the main supporting rack 7. The two main supporting racks 7 are provided in parallel so can be served as a storage rack; outer ends of the retractable rods 9 laterally extended are in an open status, so towels are easy to be received and hanged on the retractable rods 9.

[0057] As shown in FIG. 14, if the retractable rod 9 is desired to be retracted in the fixing rod 8, a force is applied on the retractable rod 9 so the tenon 912 of the buckling member 91 is pressed by the positioning hole 81 and is retracted in the retractable rod 9, so the whole retractable rod 9 is able to be received in the fixing rod 8, so as to reduce spaces occupied. A user can individually operate the extractable rods 9 to meet the needed quantity of towels or bath towels to be hanged or stored.

[0058] The features of the present invention are as following: a main rack member is connected to a front end of a pair of fixing seats, so at least one retractable rod is able to extended from or received in a fixing rod via a main supporting rack provided at one end of the main rack member, so as to meet space designs; a secondary rack member is provided on either of the fixing seats so a dual-layer rack is obtained, and the secondary rack member is in an open status so is able to be installed according to a user’s operating habit; for providing more functions, a hanging ring device is provided at the fixing seat opposite to the fixing seat where the secondary rack member is disposed, so a towel for rubbing hands is able to be hanged thereon; the towel and storage rack provided by the present invention is able to be flexibly adjusted according to spaces limitation or user’s needs and habits.

[0059] It is to be understood, however, that even though numerous characteristics and advantages of the present embodiments have been set forth in the foregoing description, together with details of the structures and functions of the embodiments, the disclosure is illustrative only, and changes may be made in detail, especially in matters of shape, size, and arrangement of parts within the principles of the invention to the full extent indicated by the broad general meaning of the terms in which the appended claims are expressed.

What is claimed is:

1. A multi-function towel and storage rack, includes:
   a pair of fixing seats oppositely provided;
   a main rack member having a pair of main supporting racks, the pair of main supporting racks is individually and vertically connected to a front end of the fixing seats, and at least one fixing rod is provided between the pair of main supporting racks, a proper location of each of the fixing rods is provided with a positioning hole, and an outer end of one of the main supporting racks is provided with a retractable rod with respect to an open end of each of the fixing rods;
   at least one retractable rod passed through the retractable hole and sleeved in the fixing rod, an inner end of each of the retractable rods is provided with a buckling member with respect to the locations where the positioning holes are provided; when the buckling member is buckled in or released from the positioning hole, the retractable rod is extended from the main supporting rack provided at one end of the main rack member or is retracted in the fixing rod.

2. The multi-function towel and storage rack as claimed in claim 1, wherein the fixing rod and the retractable rod are pipe members having rectangular cross sections, and an ending member is provided at an outer end of each of the rod members; and one of the main supporting racks is transversally and thoroughly provided with at least one pair of fixing holes, an inner end and an outer end of the other main supporting rack are respectively provided with at least one pair of fixing holes and retractable holes communicating with the fixing holes, the outer caliber of the fixing rod is relative to the fixing hole, and the outer caliber of the retractable rod is relative to the inner calibers of the retractable hole and the fixing rod.
3. The multi-function towel and storage rack as claimed in claim 1, wherein the buckling member is a sleeve having an opening being provided with a resilient member therein, and a buckling ball is provided between the resilient member and a cover fixed on the opening and is partially exposed so the buckling ball is able to be buckled in the positioning hole; the other fixing seat is provided with a hanging ring device, a ring rack is vertically provided at an bottom end of the fixing seat.

4. The multi-function towel and storage rack as claimed in claim 1, wherein the positioning hole is provided at an inner end and close to the open end of each of the fixing rods.

5. A multi-function towel and storage rack, includes:
   a pair of fixing seats oppositely provided;
   a main rack member having a pair of main supporting racks, each of the main supporting racks is vertically connected to a front end of the fixing seats, and at least one fixing rod is provided between the pair of main supporting racks;
   a secondary rack member provided at a bottom end of the main rack member, having a secondary supporting rack vertically connected to a front end of either of the fixing seats, and at least one hanging rod provided at an inner side of the secondary supporting rack, the length of each of the hanging rods is shorter than the length of the fixing rod and an inner end thereof has a sealed edge, so a open-type rack member is obtained.

6. The multi-function towel and storage rack as claimed in claim 5, further includes at least one retractable rod passed through the retractable hole provided at an outer end of the main supporting rack and with respect to the open end of each of the fixing rods and sleeved in the fixing rod, an inner end of each of the retractable rods is provided with a buckling member with respect to the locations where the positioning holes are provided; when the buckling member is buckled in or released from the positioning hole, the retractable rod is extended from the main supporting rack provided at one end of the main rack member or is retracted in the fixing rod.

7. The multi-function towel and storage rack as claimed in claim 6, wherein the fixing rod and the retractable rod are pipe members having rectangular cross sections, and an ending member is provided at an outer end of each of the rod members; and one of the main supporting racks is transversally and throughly provided with at least one pair of fixing holes, an inner end and an outer end of the other main supporting rack are respectively provided with at least one pair of fixing holes and retractable holes communicating with the fixing holes, the outer caliber of the fixing rod is relative to the fixing hole, and the outer caliber of the retractable rod is relative to the inner calibers of the retractable hole and the fixing rod.

8. The multi-function towel and storage rack as claimed in claim 6, wherein the buckling member is a sleeve having an opening being provided with a resilient member therein, and a buckling ball is provided between the resilient member and a cover fixed on the opening and is partially exposed so the buckling ball is able to be buckled in the positioning hole.

9. The multi-function towel and storage rack as claimed in claim 5, wherein the secondary supporting rack is bended so is in a tilted status, therefore the plural hanging rods extended from an inner end of the secondary supporting rack have height variations.

10. The multi-function towel and storage rack as claimed in claim 5, wherein the other side of the secondary rack member is provided with a hanging ring device, a ring rack is vertically connected to a bottom end of the other fixing seat, and a hanging ring is pivotally provided at a front end of the ring rack.

11. A multi-function towel and storage rack, includes:
    a fixing seat having an opening for being fixed on a surface;
    a main supporting rack vertically connected to a front end of the fixing seat via the opening, one end thereof has at least one fixing hole; and
    at least one fixing rod, one end thereof is provided on the main supporting rack via the fixing hole, the other end thereof is served to hang towels or store objects.

12. The multi-function towel and storage rack as claimed in claim 11, wherein the main supporting rack, the fixing rod are pipe members having rectangular cross sections, and the other end of the fixing rod further includes an ending member, and the quantity of the fixing rods is the same as the quantity of the fixing holes.

13. A multi-function towel and storage rack, includes:
    a fixing seat having an opening for being fixed on a surface;
    a main supporting rack vertically connected to a front end of the fixing seat via the opening, two ends thereof respectively have at least one fixing hole;
    at least one fixing rod, one end thereof is provided on one side of the main supporting rack via the fixing hole, and the fixing rod has a positioning hole; and
    at least one retractable rod capable of being sleeved in the fixing rod via the fixing hole provided at the other side of the main supporting rack, and an inner end of each of the retractable rods is provided with a buckling member with respect to the locations where the positioning holes are provided; when the buckling member is buckled in or released from the positioning hole, the retractable rod is extended from the main supporting rack provided at one end of the main rack member or is retracted in the fixing rod as to as hang towels or store objects.

14. The multi-function towel and storage rack as claimed in claim 13, wherein the main supporting rack, the fixing rod and the retractable rod are pipe members having rectangular cross sections, and the other end of the fixing rod further includes an ending member.

15. The multi-function towel and storage rack as claimed in claim 13, wherein the positioning hole is provided on an inner end and close to the open end of each of the fixing rods.

16. The multi-function towel and storage rack as claimed in claim 13, wherein the buckling member further includes a resilient sheet and a tenon; the shape of the resilient sheet is in a bow-shape, the resilient sheet is disposed in the retractable rod and close to the bottom end of the positioning hole, the tenon is provided on a top end of the resilient sheet, and part of the tenon is exposed outside of the positioning hole for being buckled in the positioning hole.

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