

# ONE-TOUCH LIFTING FOLDABLE CLOTHES DRYING RACK

## Field of Technology

The present invention relates to a technical field of clothes drying racks mainly  
5 used for drying clothes, and more specifically, to a one-touch lifting foldable clothes  
drying rack.

## Background of the Invention

Nowadays, there have already been a wide variety of popular clothes drying  
10 racks. However, there are defects in their designing. For example, existing clothes  
drying racks are mainly fixed on walls of a balcony. Thus, when the balcony needs to  
be merged with a living area of a house in case that space of the balcony or the living  
area of the house is small, there will be no balcony for drying clothes. And, the clothes  
drying racks cannot be moved in use due to being fixed on the wall, rendering it  
15 impossible to move the clothes drying racks towards the sun in order to dry the  
clothes in the sun. Further, there are also defects in existing floor standing movable  
clothes drying racks. For example, overall stability of the clothes drying racks is very  
poor, due to scalable rods in the clothes drying racks being not easy to be fixed tightly,  
and hinge connections of the frame bodies of the clothes drying racks being not easy  
20 to be fixed and tending to be loosened.

## Summary of the Invention

An objective of the present invention is to provide a one-touch lifting foldable  
clothes drying rack which can be moved freely, has overall strong stability of the body  
25 of the clothes drying rack with tightly fixed scalable fittings, and can be packed up and  
laid conveniently.

To achieve the objective, the present invention adopts a technical solution to  
provide a movable clothes drying rack characterized in that it is composed of a left  
frame, a right frame, a clothes bar, a left-middle bracket, a right-middle bracket, a left  
30 under frame, a right under frame, a left connecting rod, a connecting rod and a right  
connecting rod, hinge connections being all provided between the left-middle bracket  
and the left frame, between the right-middle bracket and the right frame, between the  
left under-frame and the left frame, between the right under-frame and the right frame,

between the connecting rod and each of the left and right brackets and the left and right under-frames, between the left connecting rod and the left-middle bracket, between the right connecting rod and the right-middle bracket, and between the left connecting rod and the right connecting rod, a sliding groove being provided on the connecting rod, and the hinge connection between the left connecting rod and the right connecting rod being on the sliding groove, and the clothes bar being disposed across a retaining ring of the left frame and a retaining ring of the right frame.

A further improved solution of the present invention is that the left frame is divided into an upper-left frame and a lower-left frame, and the right frame is divided into an upper-right frame and a lower-right frame, with the upper-left and lower-left frames being sleeved, and the upper-right and lower-right frames being sleeved.

The present invention has a advantage of e.g. being convenient for collection of clothes, being convenient for packing up, small occupied area and unrestricted use location, etc.

#### Brief Description of the Drawings

Fig. 1 illustrates a brief schematic diagram of a specific structure of the present invention.

Fig. 2 illustrates a brief schematic diagram in use state of the present invention.

#### Detailed Description of the Embodiments

The present invention will be further described in detail with reference to the accompanying drawings and embodiments. As shown in Figs. 1-2, the present invention is composed of a left frame 1, a right frame 2, a clothes bar 10, a left-middle bracket 3, a right-middle bracket 4, a left under-frame 5, a right under-frame 6, a left connecting rod 8, a connecting rod 7 and a right connecting rod 9. Hinge connections are all provided between the left-middle bracket 3 and the left frame 1, between the right-middle bracket 4 and the right frame 2, between the left underframe 5 and the left frame 1, between the right underframe 6 and the right frame 2, between the connecting rod 7 and each of the left and right brackets 3, 4 and the left and right under-frames 5, 6, between the left connecting rod 8 and the left-middle bracket 3, between the right connecting rod 9 and the right-middle bracket 4, and between the

left connecting rod 8 and the right connecting rod 9. The left connecting rod 8 and the right connecting rod 9 are hinged by a fixed tensioning buckle 24 which is of a transverse shaft tensioned self-locking structure. When a handle of the fixed tensioning buckle 24 is pulled open, the left connecting rod 8 and the right connecting rod 9 are movably hinged and rotatable at this time, and when the handle of the fixed tensioning buckle 24 is locked deadly tightly, the left connecting rod 8 and the right connecting rod 9 are fixedly hinged. That is to say, the function of the fixed tensioning buckle 24 is to fix the entire body of the clothes drying rack. Being pulled open, the entire body of the clothes drying rack may move and rotate to facilitate packing up. Being locked deadly tightly, the entire body of the clothes drying rack cannot move as each hinge connection of the clothes drying rack is fixed. A sliding groove 71 is provided on the connecting rod 7, and the hinge connection between the left connecting rod 8 and the right connecting rod 9 is on the sliding groove 71. The clothes bar 10 is disposed across a retaining ring 11 of the left frame 1 and a retaining ring 21 of the right frame 2. The left frame 1 is divided into an upper-left frame 12 and a lower-left frame 13, and the right frame 2 is divided into an upper right frame 22 and a lower right frame 23. The upper-left and lower-left frames 12, 13 are sleeved by a clasp 25, and the upper-right and lower-right frames 22, 23 are sleeved by a clasp 25. The upper-left and lower-left frames and the upper-right and lower-right frames may be slid up and down when the clasp 25 is opened, while cannot be slid up and down when the clasp 25 is closed thus achieving the goal to control the extending height of the frame. When it is needed to dry clothes, the mobile clothing rack may be moved to a place where there is sunshine. In the case of packing up, the clothes bar 10 is taken out from the retaining rings 11, 21, the left-middle and right-middle brackets are connected and lifted up, and the left and right frames 1, 2 are brought together to reduce occupied space.

## WHAT IS CLAIMED IS:

1. A one-touch lifting foldable clothes drying rack, characterized in that the one-touch lifting foldable clothes drying rack is composed of a left frame (1), a right frame (2), a clothes bar(10), a left-middle bracket (3), a right-middle bracket (4), a left under-frame (5), a right under-frame (6), a left connecting rod (8), a connecting rod (7) and a right connecting rod (9), hinge connections being all provided between the left-middle bracket (3) and the left frame (1), between the right-middle bracket (4) and the right frame (2), between the left under-frame (5) and the left frame (1), between the right under-frame (6) and the right frame (2), between the connecting rod (7) and each of the left and right brackets (3, 4) and the left and right under-frames (5, 6), between the left connecting rod (8) and the left-middle bracket (3), between the right connecting rod (9) and the right-middle bracket (4), and between the left connecting rod (8) and the right connecting rod (9), a sliding groove (71) being provided on the connecting rod (7), and the hinge connection between the left connecting rod (8) and the right connecting rod (9) being on the sliding groove (71), the clothes bar(10) being disposed across a retaining ring (11) of the left frame (1) and a retaining ring (21) of the right frame (2).

2. The one-touch lifting foldable clothes drying rack according to claim 1, characterized in that the left connecting rod (8) and the right connecting rod (9) are hinged by a fixed tensioning buckle (24) which is of a transverse shaft tensioned self-locking structure.

3. The one-touch lifting foldable clothes drying rack according to claim 1, characterized in that the left frame (1) is divided into an upper-left frame (12), a lower-left frame (13), and the right frame (2) is divided into an upper-right frame (22) and a lower-right frame (23), with the upper-left and lower-left frames (12, 13) being sleeved by a clasp (25), and the upper-right and lower-right frames (22, 23) being sleeved by a clasp (25).