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(71) Applicant: **Goudriaan, Bastiaan**
3137 XB Vlaardingen (NL)

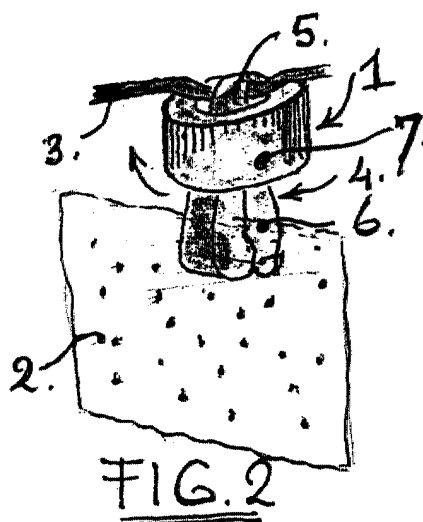
(72) Inventor: **Goudriaan, Bastiaan**
3137 XB Vlaardingen (NL)

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(54) **Improved suspension device for laundry**

(57) The invention relates to a strong improved suspension device (1) for laundry or fabric items (2) on a clothesline (3), popularly called a strong improved clothes-peg, by which this is constructed of a clamping element (4), V-shape constructed of a springy flat threaded element (5), that on the ends is provided with an in cross-section enlarged clamping jaws (6) and

around this slid from underneath an in cross-section approximately elliptic locking ring (7) with profiled bottom surface (11), by which by means of rotation of the mentioned locking ring (7) on a surprisingly inventive way the laundry (2) as well as the clothesline (3) are clenched on the suspension device according to the invention.



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Description

[0001] The present invention relates to a device for suspending fabric items, such as laundry, on a stretched clothesline, also popularly called clothes-peg, by which it is constructed of two springy-mounted legs, roughly forming a U-element with a clamp or claw end of the legs for securing the mentioned fabric items, by which during use the legs which are moved towards each other are lockable.

[0002] A known, somewhat similar suspension device, or popularly called clothes-peg is known in the European patent no. 0 130 165 from Sven Elgert Packendorff, Surte, Sweden, dated 18-06-1984.

[0003] It concerns a U-shaped clamp or peg for clothes and such with a body and two springy legs, between which the clothes or such can be applied. Over the mentioned springy legs a mainly E-shaped locking device is slideable placed to move the springy legs towards each other and thus clench the clothing, by which the springy legs are provided with a friction increasing structure. The mentioned E-shaped locking device can be snapped onto the springy legs by means of bevels to yet make the whole a clothes-peg. Further the aforementioned clothes-peg is simply hooked on the clothesline by means of a formed hook on the body.

[0004] The above mentioned known Swedish suspension device for laundry, the clothes-peg, has a number of disadvantages in relation to the following items:

- The springy legs must be apart and should be moved towards each other while sliding the E-shaped locking device in order to clench the laundry, which demands extra effort from the user.
- The surface of the legs are executed as to increase friction, so that moving the E-shaped locking device is extra difficult to, during use, get the E-shaped locking device in locking position of the springy legs, and which friction surface is necessary to keep the E-shaped locking device or clothes-peg in a locking position.
- The laundry can slide easily along the clothesline, because there is no clamping between the suspension hook of the clothes-peg and the clothesline, through which the laundry sags and therefore dries badly.

[0005] The aim of the present invention concerns to provide such a device for suspending fabric items, such as laundry on a clothesline, also called clothes-peg, which does not have the aforementioned disadvantages.

[0006] For that a device for suspending fabric items, such as laundry on a clothesline, the so-called clothes-peg is further developed in such a way that the mentioned device is constructed of a clamping element, executed as a V-shaped bended springy flat threaded el-

ement, with on the ends in cross-section enlarged clamping jaws and a rotatable, in cross-section an approximately elliptic locking ring is slid over the aforementioned clamping element, which by rotation of mentioned locking ring fabric items as well as mentioned clothesline are secured.

[0007] The advantages of this is that the aforementioned disadvantages of the Swedish clothes-peg are eliminated and that an optimally working suspension device for laundry, and/or clothes-peg is created, which demands little effort, lasts long and can still be fabricated in an economical sensible way.

[0008] Furthermore the device according to the invention is further developed in such a way, that the mentioned in cross-section enlarged clamping jaws forming the ends of the legs of the clamping element are executed as tongs end elements and that the clamping element is directly placeable over the clothesline, and that the mentioned rotatable in cross-section elliptic locking ring is slideable from underneath over the legs with clamping jaws and is securable by means of the moulded on peg shoulders of the clamping jaws, by which the mentioned clothesline by rotating the locking ring with profiled upper surface with recesses is securable.

[0009] The advantages are an easy applicable clothes-peg on the clothesline, which further after applying the laundry with little effort is lockable in relation to laundry and clothesline, so no sliding or sagging of laundry will occur with all the disadvantages.

[0010] Furthermore, the device for suspending laundry on a clothesline, the so called clothes-peg, is further developed in such a way, that the clamping element and the rotatable locking ring are made of plastic, and that the mentioned plastic for the clamping element is polyethylene, polyethylene or polyester, and that the mentioned plastic for the rotatable locking ring is polyethylene or polyester.

[0011] The advantages are an economical to make, strong and weather-proof suspension device for laundry on a clothesline, which can be left on the clothesline in all weathers.

[0012] Furthermore the suspension device for laundry on a clothesline is further developed in such a way, that the colour of the clamping element differs from the rotatable locking ring, and that the preferred colour for the clamping element is yellow and the preferred colour for the rotatable locking ring is red.

[0013] The advantages are that a pretty and for the user directly understood suspension device for laundry is created, generally called clothes-peg.

[0014] The invention will now be further described in a preferred embodiment with reference to the annexed drawings, in which:

55 Fig. 1 is a view in oblique projection of a suspension device for laundry on a clothesline in opened position for the laundry according to the invention;

- Fig. 2 is a view according to figure 1 of the suspension device but now in locked position for laundry and clothesline;
- Fig. 3,4,5 is a view in oblique projection of the V-shaped bended clamping element of the suspension device in several positions;
- Fig. 6 is a view in oblique projection of the rotatable in cross-section approximately elliptic locking ring of the suspension device;
- Fig. 7 is a cross-section of the suspension device in opened position to the clothesline according to the invention;
- Fig. 8 is a top view of the suspension device for laundry on a clothesline in which the locking is indicated by means of rotating the locking ring;
- Fig. 9 is a cross-section of the suspension device in a locked position applied to the clothesline according to figure 7;
- Fig. 10 is a side view of the V-shaped bended clamping element of the suspension device, in which the clamping jaws with profile for receiving laundry is clearly shown;
- Fig. 11,12,13 are a cross-section, top view and bottom view of the locking ring in opened position of the suspension device according to the invention;
- Fig. 14,15 is the applied suspension device shown in cross-section on the clothesline in opened and locked position; and
- Fig. 16 is the locking ring of the suspension device in top view shown in locked position.

[0015] In figure 1 a view in oblique projection is shown of the suspension device 1 for fabric items or generally called laundry 2 on a clothesline 3 in opened position for applying the mentioned laundry 2. The suspension device 1 comprises a clamping element 4, that is executed V-shaped bended of a springy flat threaded element 5 with on the ends in cross-section enlarged clamping jaws 6, and an in horizontal cross-section approximately elliptic locking ring 7.

[0016] In figure 2 the suspension device 1 is shown in locked position with the same item numbers.

[0017] In figures 3, 4 and 5 show in oblique projection views of the V-shaped bended clamping elements 4 with the springy flat threaded element 5 with on the ends in cross-section enlarged clamping jaws 6.

[0018] In figures 4 and 5 the clamping element 4 is applied to the clothesline 3.

[0019] Figure 6 shows a view in oblique projection of the rotatable in cross-section approximately elliptic lock-

ing ring 7.

[0020] In figure 7 a cross-section of the suspension device 1 is sketched in opened position on the clothesline.

[0021] In figure 9 this and that is shown in locked position.

[0022] In figure 8 the rotation of the locking ring 7 is indicated.

[0023] In figure 10 a side view of the preferred embodiment of the V-shaped bended clamping element 4 of the suspension device 1 is shown, by which the clamping jaws 6 are provided with profile 8.

[0024] Figures 11, 12 and 13 show in cross-section, top view and bottom view the locking ring 7 in opened position of the suspension device 1 according to the invention in preferred embodiment. The in broad outlines elliptic inner space 9 is shown in figures 12 and 13. See also figure 16, in which the locking ring 7 is indicated in locked position in top view. The upper side 10 and the bottom side 11 of the locking ring 7 are executed profiled in order to secure the clenching of the clothesline 3 respectively the clamping jaws 6 in locked position.

[0025] Figures 14 and 15 show the applied suspension device 1 in cross-section on the clothesline 3 in opened and locked position, by which the preferred embodiment becomes clear.

[0026] Finally, it will be appreciated, that the preferred embodiment of the suspension device for laundry according to the invention has been described and that further modifications are possible without leaving the scope of this patent document.

Claims

1. Device for suspending fabric items, such as laundry, on a stretched clothesline, also popularly called clothes-peg, by which it is constructed of two springy-mounted legs, roughly forming a U-element with a clamp or claw end of the legs for securing the mentioned fabric items, by which during use the legs which are moved towards each other are lockable, **characterized in that**, the mentioned device (1) is constructed of a clamping element (4), executed as V-shaped bended springy flat threaded element (5), with on the ends in cross-section enlarged clamping jaws (6) and a rotatable, in cross-section approximately elliptic locking ring (7) slid over the aforementioned clamping element (4), which by rotation of mentioned locking ring (7) fabric items (2) as well as mentioned clothesline (3) are secured.
2. Device as claimed in claim 1, **characterized in that**, the mentioned in cross-section enlarged clamping jaws (6) forming the ends of the legs of the clamping element (4) are executed as tongs end elements and that the clamping element (4) is di-

rectly placeable over the clothesline (3).

3. Device as claimed in claims 1 and 2, **characterized in that**, the mentioned rotatable in cross-section elliptic Locking ring (7) is slideable from underneath over the legs with clamping jaws (6) and is securable by means of the moulded on peg shoulders of the clamping jaws, by which the mentioned clothesline (3) by rotating the locking ring (7) with profiled upper surface. (10) with recesses is securable.
4. Device as claimed in claims 1 - 3, **characterized in that**, the clamping element (4) and the rotatable locking ring (7) are made of plastic.
5. Device as claimed in claim 4, **characterized in that**, the mentioned plastic for the clamping element (4) is polyethene, polyethylene or polyester.
6. Device as claimed in claim 4, **characterized in that**, the mentioned plastic for the rotatable locking ring (7) is polyethylene or polyester.
7. Device as claimed in the aforementioned claims, **characterized in that**, the colour of the clamping element (4) differs from the rotatable locking ring (7).
8. Device as claimed in the aforementioned claims, **characterized in that**, the preferred colour for the clamping element (4) is yellow and the preferred colour for the rotatable locking ring (7) is red.

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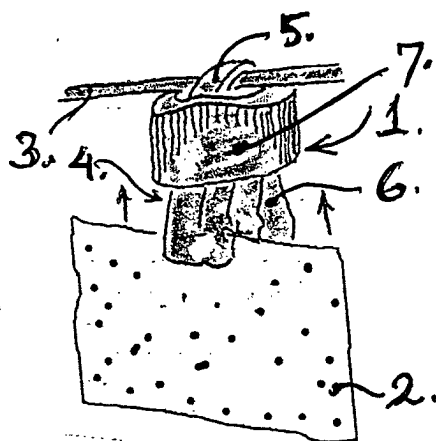


FIG. 1

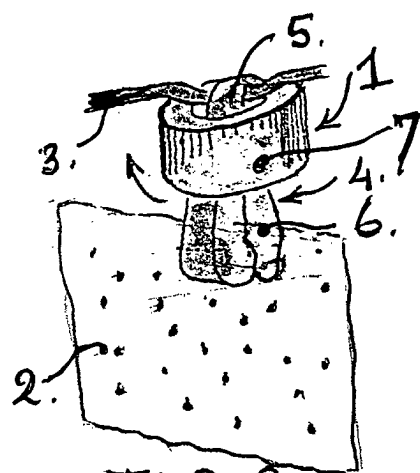


FIG. 2

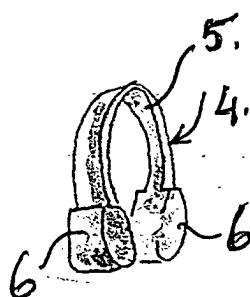


FIG. 3

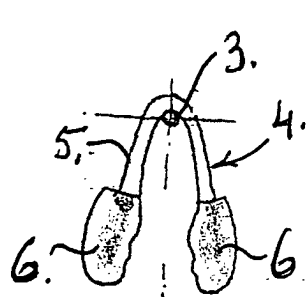


FIG. 4

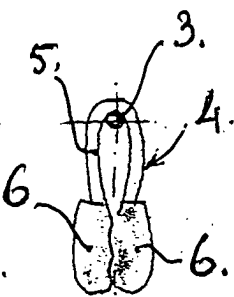


FIG. 5

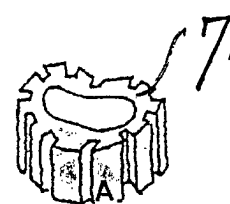


FIG. 6

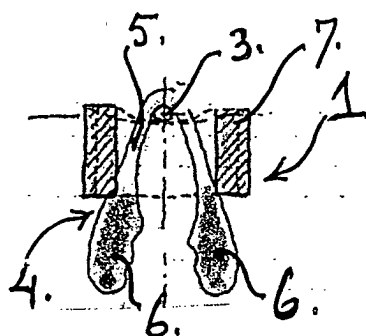


FIG. 7

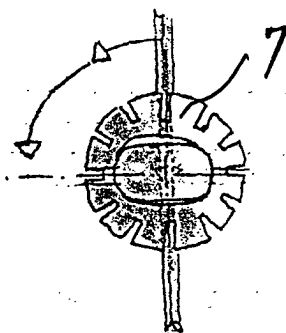


FIG. 8

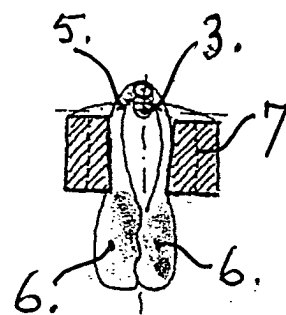


FIG. 9

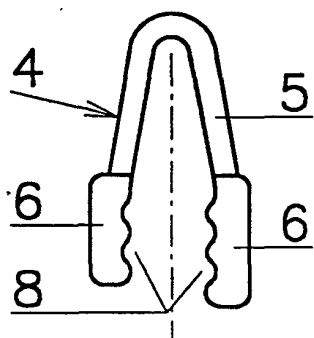


FIG. 10

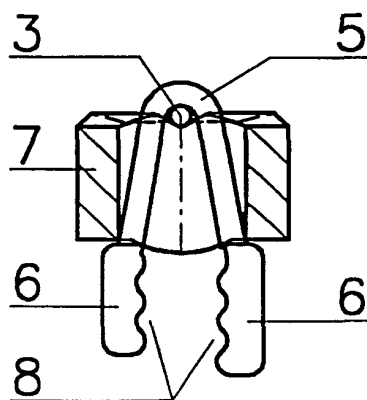


FIG. 14

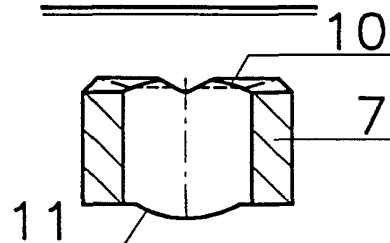


FIG. 11

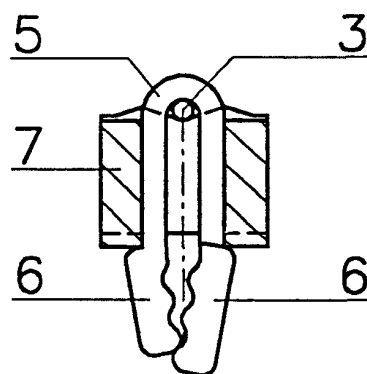


FIG. 15

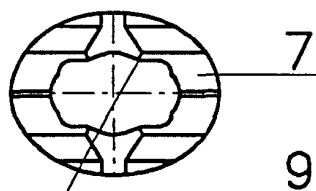


FIG. 12

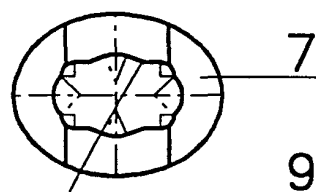


FIG. 13

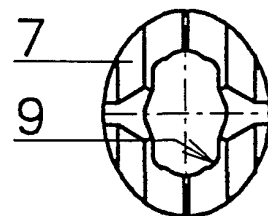


FIG. 16