



(11) **EP 3 357 849 A1**

(12) **EUROPEAN PATENT APPLICATION**  
published in accordance with Art. 153(4) EPC

(43) Date of publication:  
**08.08.2018 Bulletin 2018/32**

(51) Int Cl.:  
**B65H 75/36 (2006.01)**

(21) Application number: **16785561.8**

(86) International application number:  
**PCT/IB2016/055277**

(22) Date of filing: **02.09.2016**

(87) International publication number:  
**WO 2017/055947 (06.04.2017 Gazette 2017/14)**

(84) Designated Contracting States:  
**AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR**  
Designated Extension States:  
**BA ME**  
Designated Validation States:  
**MA MD**

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(30) Priority: **29.09.2015 PT 2015108846**

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(54) **FIXING SUPPORT AND ITS USE.**

(57) The present application relates to a fixing support and its use.

The fixing support comprises: a suspension element able to be attached either to a movable or a fixed means; at least one upper support bar fixed to the suspension element by pressing or squeezing; at least one fixing el-

ement; and a plane/separator.

From the practical point of view, the fixing support may be used for the transportation and storage of cables, pre-assemblies, components, wires and/or filaments, preventing the entangling thereof.

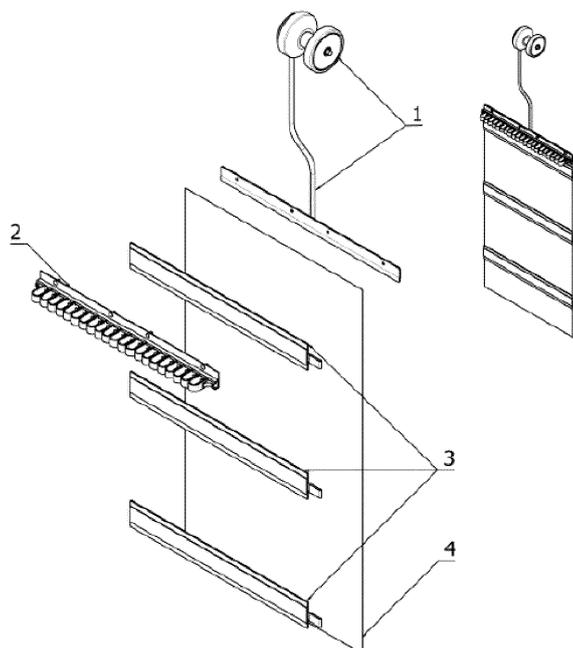


Figure 1

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**Description****Technical Domain**

[0001] The present application relates to a fixing support and its use.

**Background**

[0002] Nowadays the transportation of cables and/or wires is carried out with the wires and/or cables and/or filaments rolled up, with or without a reel. This technical solution causes the wires, cables or filaments to show tendency to entangle, which causes the operators to take a significant amount of time to untangle the wires and/or cables and/or filaments before application.

**Summary**

[0003] The present application describes a fixing support comprising a suspension element able to be attached to a fixed or movable means, at least one upper support bar fixed to the suspension element by pressing or squeezing, at least one fixing element and a plane/separator.

[0004] In an embodiment, the suspension element comprises wheels and/or at least a suspension ring.

[0005] In another embodiment, the fixing element to the plane/separator is a ribbon, strap, band or elastic.

[0006] Yet in another embodiment, the band used in the fixing support is a magnetic band.

[0007] Yet in another embodiment, the fixing element to a plane/separator includes Velcro.

[0008] In another embodiment, the upper support bar provided on the fixing support, may be either fixed or removable.

[0009] In another embodiment, the upper support bar does not need to be horizontal in relation to the floor plane, that is, it may be provided in any position as for instance vertically.

[0010] In another embodiment, the upper support bar of the fixing support, either being fixed or removable, comprises pegs.

[0011] In another embodiment, the upper removable support bar is placed on and removed from the suspension element with the help of at least one fast-fitting system, for instance a pegs system or a magnet.

[0012] In another embodiment, the plane/separator of the fixing support is made of textile, polymeric or composite material.

[0013] Yet in another embodiment, the plane/separator of the fixing support is made of polyvinyl chloride.

[0014] Yet in another embodiment, the plane/separator of the fixing support is made of perforated material.

[0015] The present application further describes the use of the fixing support in the transportation and storage of cables and/or wires and/or filaments.

**General Description**

[0016] The present application relates to a fixing support which fastens the wires and/or cables and/or filaments by means of at least one fixing element that presses the wires against a given plane/separator.

[0017] The fixing element used may be a ribbon, strap or band that may include Velcro or yet being magnetic, or yet an elastic placed such that prevents the entangling phenomenon. In case of an elastic, the application thereof is carried out by securing a tip at the bar end, being then stretched to the other end of the bar such that the cables and/or wires and/or filaments are kept secured/pressed against the support bar.

[0018] This fixation allows to prevent the entangling or any damage on the wires and/or cables and/or filaments which might be caused by the transportation. Furthermore, a separator is used in order to allow the placement of several fixing means over the plane/separator to prevent the entangling of the wires placed in the same support, and at the same time to prevent contact/entangling with the wires of rear supports, for instance a screen, which allows several fixing supports to be placed in row, being the screen secured to the support itself, as illustrated in Figure 11 and Figure 12.

[0019] In an embodiment, the plane/separator referred above may be a screen made of textile or polymeric material, for instance polyvinyl chloride (PVC), or a mix of different materials, making up a composite material, yet being also possible to use alternatively a perforated screen in order to reduce the oscillating and friction effect due to the air mass displacement.

[0020] From the practical point of view, the fixing support may be used for the transportation and storage of cables and/or wires and/or filaments preventing the entangling thereof.

[0021] This technical solution may be used within the scope of any industry, for instance electric and automobile industries.

**Brief Description of the Figures**

[0022] For an easier understanding of the art, figures are appended, which depict preferred embodiments that, however, are not meant to limit the object of the present application.

Figure 1 illustrates an embodiment of the fixing support, wherein the reference numbers are related to the following elements:

- 1 - suspension element;
- 2 - upper support bar;
- 3 - fixing element;
- 4 - plane/separator.

Figure 2 illustrates an embodiment of the fixing support with fixed cables, wherein the reference num-

bers are related to the following elements:

- 2 - upper support bar;
- 3 - fixing element;
- 4 - plane/separator;
- 5 - pegs support;
- 6 - suspension ring.

Figure 4 illustrates an embodiment of the fixing support having the removable support bar coupled to the system, wherein the reference numbers are related to the following elements:

- 1 - suspension element;
- 2 - upper support bar;
- 3 - fixing element;
- 4 - plane/separator;
- 7 - locking part.

Figure 4 illustrates the same embodiment of the fixing support depicted in Figure 3, in which the support bar is removed from the system. The comparative analysis of these two figures shows that the upper support bar has the ability of being removable. The following reference numbers are related to the following elements:

- 1 - suspension element;
- 2 - upper support bar;
- 3 - fixing element;
- 4 - plane/separator;
- 7 - locking part.

Figure 5 illustrates an embodiment of the fixing support having support bars placed in the vertical position, wherein the reference numbers are related to the following elements:

- 1 - suspension element;
- 2 - upper support bar;
- 3 - fixing element;
- 4 - plane/separator;

Figure 6 illustrates an embodiment of the fixing support having the removable support bar coupled to the system. It should be noted that a fixing profile is used and represented in this same image, which makes it easier to couple and to remove the support bar from the rest of the assembly. In order to prevent the support bar to displace horizontally when coupled to the rest of the system, two stops are used to prevent this displacement. In this figure the reference numbers are related to the following elements:

- 1 - suspension element;
- 2 - upper support bar;
- 3 - fixing element;
- 4 - plane/separator;

- 8 - fixing profile;
- 9 - stop.

Figure 7 illustrates the same embodiment of the fixing support represented in Figure 6, in which the support bar is removed from the system. The comparative analysis of these two figures shows that the support bar has the ability of being removable. The following reference numbers are related to the following elements:

- 1 - suspension element;
- 2 - upper support bar;
- 3 - fixing element;
- 4 - plane/separator;
- 8 - fixing profile;
- 9 - side stop.

Figure 8 illustrates an embodiment of the fixing support being empty and having the fixing means open.

Figure 9 illustrates an embodiment of the fixing support having the fixing means open and being loaded with cables.

Figure 10 illustrates an embodiment of the fixing support having the fixing means closed and being loaded with cables.

Figure 11 illustrates an embodiment of a set of fixing supports loaded with cables and mounted in row.

Figure 12 illustrates a side view of an embodiment of a set of fixing supports loaded with cables mounted in row.

### Description of embodiments

**[0023]** Hereinafter, some embodiments will be described in a more detailed way which are not intended, however, to limit the scope of the present application.

**[0024]** The present application relates to a fixing support which fastens the wires and/or cables and/or filaments by means of at least one fixing element that presses the wires against a given plane/separator, avoiding the entangling thereof.

**[0025]** An objective of the present technology is to prevent any kind of entangling of the wires and/or cables and/or filaments that may cause damage during storage or transportation.

**[0026]** The fixing supports may have wheels, and enable the displacement by gravity or by traction, or may be fixed to other transportation means, or yet in static warehouses.

**[0027]** The upper support bar may be either fixed to the suspension element or removable. This last possibility allows to remove the upper support bar together with the wires and/or cables and/or filaments from the system

in which the fixing support is included. In order to make it easier to attach and remove the upper support bar from the separation element, at least one fast fitting system is used, for example a peg system or a magnet. In this type of system, the suspension element may have coupled to it a profile that makes the process of placing and removing the upper support bar easier.

**[0028]** To prevent the wires and/or cables and/or filaments to get entangled, they are fixed to a plane/separator by means of at least one fixing element, which may be a ribbon, strap or band, which may include Velcro, or yet an elastic placed such that any damage on the wires and/or cables and/or filaments that might be caused by transportation is prevented. By fixing the wires and/or cables and/or filaments against a plane/separator, the side movement thereof is prevented, avoiding entangling.

**[0029]** The use of a plane/separator yet enables several supports to be placed in row, and thus also preventing that the wires on the supports of the rear will entangle with the wires on the supports of the front.

**[0030]** The fixing element used may be a ribbon, strap or band which may include Velcro, or yet an elastic placed such that the entangling phenomenon is prevented. In case of an elastic, the application thereof is carried out by securing a tip at the bar end, being then stretched to the other end of the bar such that the cables and/or wires and/or filaments are kept secured/pressed against the support bar.

**[0031]** This fixation allows to prevent the entangling or any damage on the wires and/or cables and/or filaments which might be caused by transportation. Furthermore, a separator is used in order to allow the placement of several fixing means over the plane/separator to prevent the entangling of the wires placed in the same support, and at the same time to prevent contact/entangling with the wires of rear supports using for example a screen, which allows several fixing supports to be placed in row, being the screen secured to the support itself, as illustrated in Figure 11 and Figure 12.

**[0032]** The plane/separator mentioned above may be a screen made of textile or polymeric material, for example polyvinyl chloride (PVC), said screen being possibly perforated.

**[0033]** From the practical point of view, the fixing support may be used for the transportation and storage of cables and/or wires and/or filaments preventing the entangling thereof. This technical solution is especially very interesting to electric and automobile industries.

**[0034]** In the illustration of Figure 1 it may be observed that the fixing support comprises a suspension element (1) attaching the support bar to a means, this means being fixed or movable, at least an upper support bar (2) and at least a fixing element (3) to a plane/separator (4).

**[0035]** The upper support bar (2) performs a first fixation of the wires by compression, where in the case of the presented embodiment the wires are secured by means of pegs, the suspension occurring thereof. The

pegs used may be of polymeric, metallic or composite material.

**[0036]** Also in Figure 2 an embodiment of the fixing support is illustrated, where fixing means (3) can be observed provided against a plane/separator (4) as well as a pegs support (5) which purpose is to hold the ends of the wires and suspend them, acting as a mechanical barrier when the wires or sets of wires are secured by connectors at their tips. These pegs press the wires/filaments/cables creating friction in the axial sense of the wire preventing its displacement. Furthermore, a suspension ring (6) may be added to the fixing support with the purpose of supporting all elements on a fixed structure having, for example, hooks.

**[0037]** In Figures 3 and 4 another embodiment of a fixing support is illustrated. Unlike the fixing support represented in Figure 1, which upper support bar (2) is fixed to the suspension element (1), the fixing support represented in Figure 3 provides a removable upper support bar (2). Thereby, as it can be seen in Figure 4, this fixing support enables the removal of the upper support bar (2) from the suspension element. Regarding the fixation of the upper support bar (2) to the suspension element (1), this is carried out by making use of at least one locking part (7) causing the upper support bar (2) to be coupled to the suspension element (1).

**[0038]** As in the figures previously referred, Figure 5 illustrates another embodiment of a fixing support. In this illustration, the upper support bar (2) is presented in a position that's different from that of all other upper support bars mentioned above, that is, while the previous illustrations present the upper support bar (2) in the horizontal position relatively to the floor plane, this new fixing support presents that one bar in the vertical position. Nevertheless, the most common embodiment includes the placement in the horizontal position. The upper support bar (2) presents this technical characteristic because the shape of the suspension element (1) allows the fixation of the upper support bar (2) or of the fixing profile (8) in different positions relatively to the floor plane.

**[0039]** In Figures 6 and 7 another embodiment of a fixing support is illustrated. This type of support operates identically to the one described in relation to figures 3 and 4. However, the upper support bar (2) coupling is not directly done to the suspension element (1) but instead to a fixing profile (8) which is fixed to the suspension element (1). To prevent the displacement of the upper support bar (2) when it is coupled to the fixing profile (8), at least one locking part is used as well as stops (9) fitted on the sides of the profile.

**[0040]** The present technology is not, naturally, in any way restricted to the embodiments described herein and a person with knowledge in the area will foresee many possibilities for modification of the technology without departing from the main idea, as per defined in the claims.

**[0041]** All the embodiments above described are obviously combinable amongst them. The following claims further define preferred embodiments.

**Claims**

1. Fixing support comprising: a suspension element able to be fixed either to a movable or a fixed means; at least one upper support bar fixed to the suspension element by pressing or squeezing; at least one fixing element; and a plane/separator. 5
2. Fixing support according to the previous claim, wherein the suspension element comprises wheels and/or at least a suspension ring. 10
3. Fixing support according to any one of the previous claims, wherein the fixing element is a ribbon, strap, band or elastic. 15
4. Fixing support according to the previous claim, wherein the band is a magnetic band.
5. Fixing support according to any one of the previous claims, wherein the fixing element to a plane/separator includes Velcro. 20
6. Fixing support according to any one of the previous claims, wherein the upper support bar is in any position relatively to the floor plane. 25
7. Fixing support according to any one of the previous claims, comprising a fixing profile coupled to the suspension element. 30
8. Fixing support according to any one of the previous claims, wherein the upper support bar is either fixed to or removable from the suspension element or the fixing profile, by means of a fast fitting system. 35
9. Fixing support according to any one of the previous claims, wherein the upper support bar comprises pegs. 40
10. Fixing support according to any one of the previous claims, wherein the plane/separator is made of textile or polymeric or composite material.
11. Fixing support according to the previous claim, wherein the plane/separator is made of polyvinyl chloride. 45
12. Fixing support according to any one of the previous claims, wherein the plane/separator is made of a perforated screen. 50
13. Use of the fixing support described in any one of the previous claims in the transportation and storage of cables and/or wires and/or filaments. 55

**Amended claims under Art. 19.1 PCT**

1. Fixing support comprising: a suspension element able to be fixed either to a movable or a fixed means; at least one upper support bar fixed or removable to the suspension element by pressing or squeezing a fast fitting system; at least one fixing element; and a plane/separator made of polyvinyl chloride.
2. Fixing support according to the previous claim, wherein the suspension element comprises wheels and/or at least a suspension ring.
3. Fixing support according to any one of the previous claims, wherein the fixing element is a ribbon, strap, band or elastic.
4. Fixing support according to the previous claim, wherein the band is a magnetic band.
5. Fixing support according to any one of the previous claims, wherein the fixing element to a plane/separator includes Velcro.
6. Fixing support according to any one of the previous claims, wherein the upper support bar is in any position relatively to the floor plane.
7. Fixing support according to any one of the previous claims, comprising a fixing profile coupled to the suspension element.
8. Fixing support according to any one of the previous claims, wherein the upper support bar comprises pegs.
9. Fixing support according to any one of the previous claims, wherein the plane/separator is made of a perforated screen.
10. Use of the fixing support described in any one of the previous claims in the transportation and storage of cables and/or wires and/or filaments.

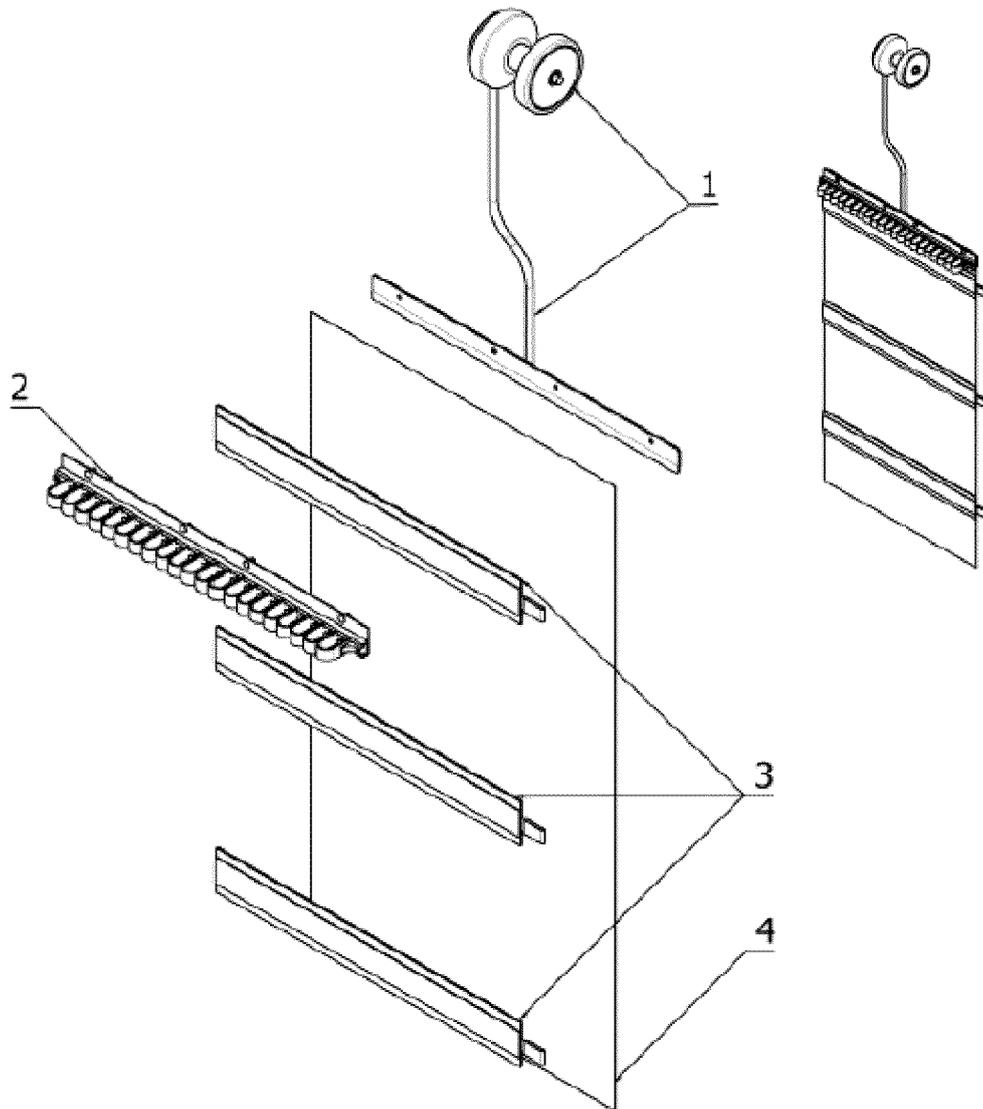


Figure 1

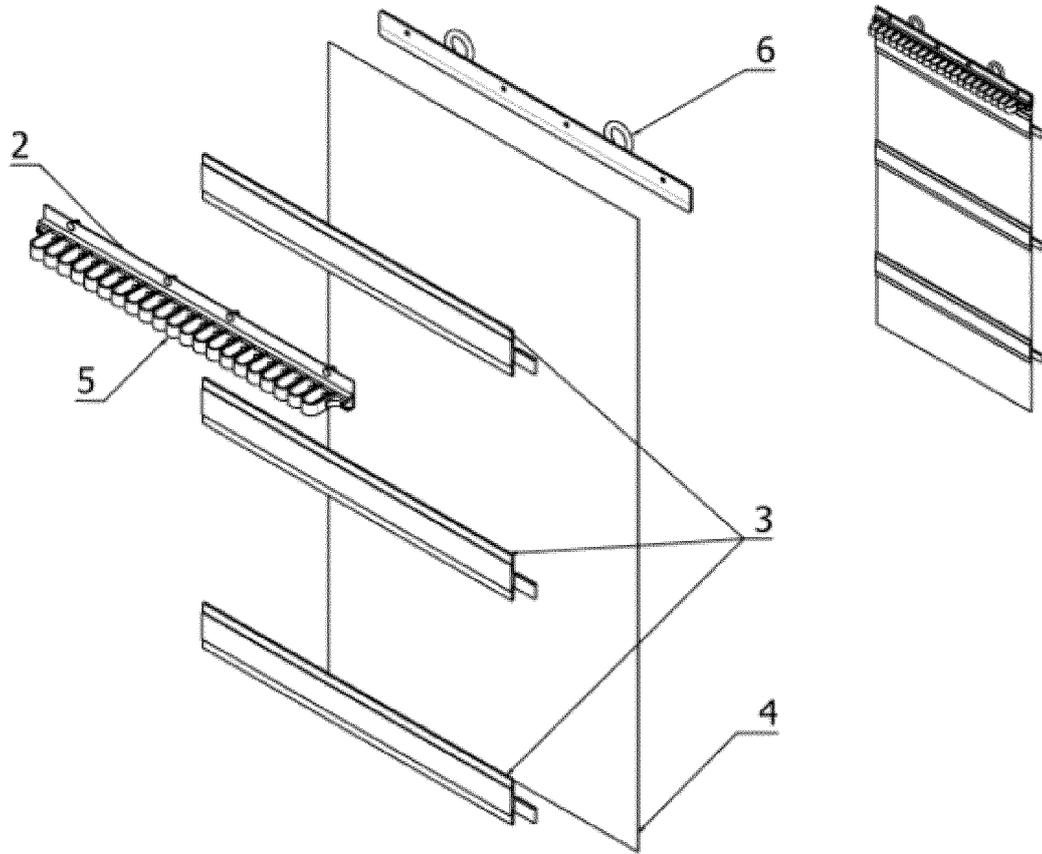


Figure 2

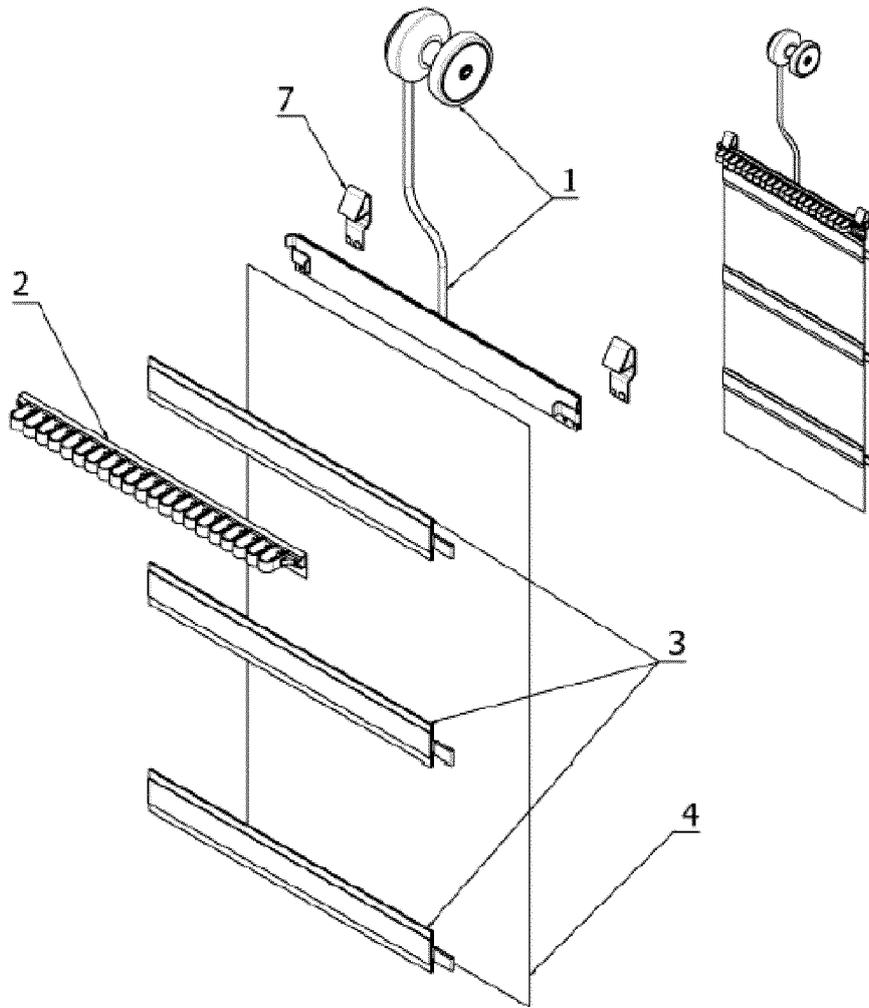


Figure 3

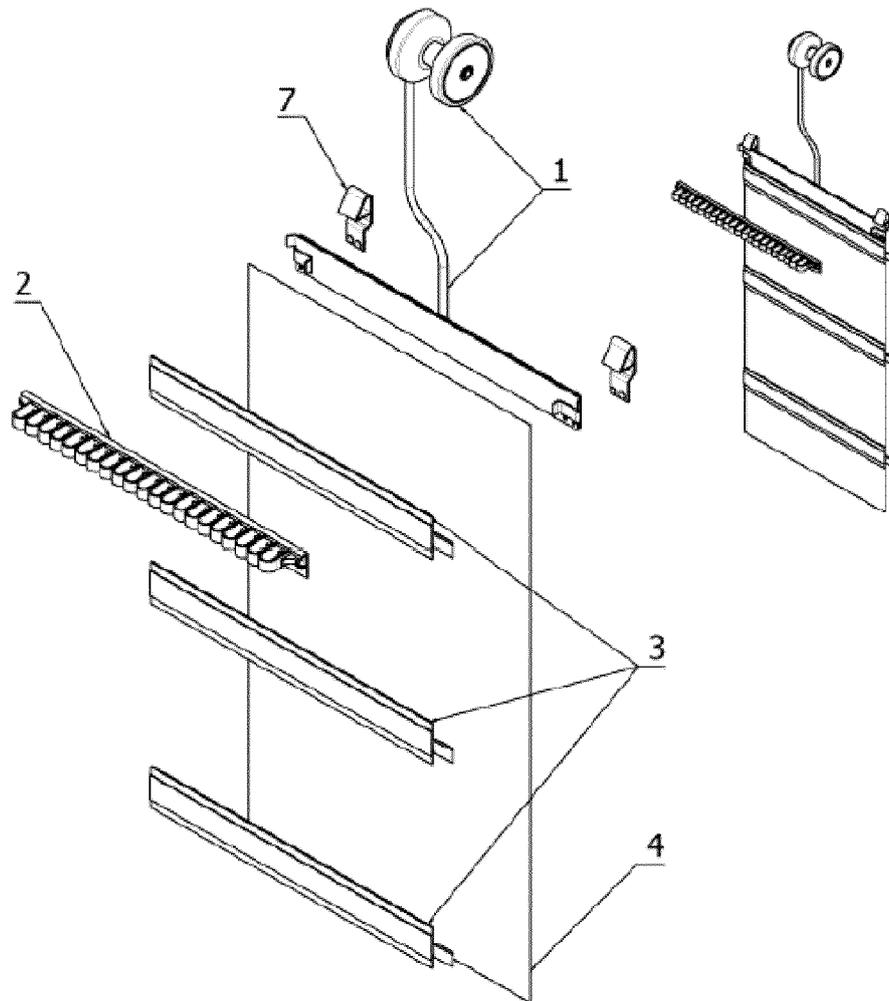


Figure 4

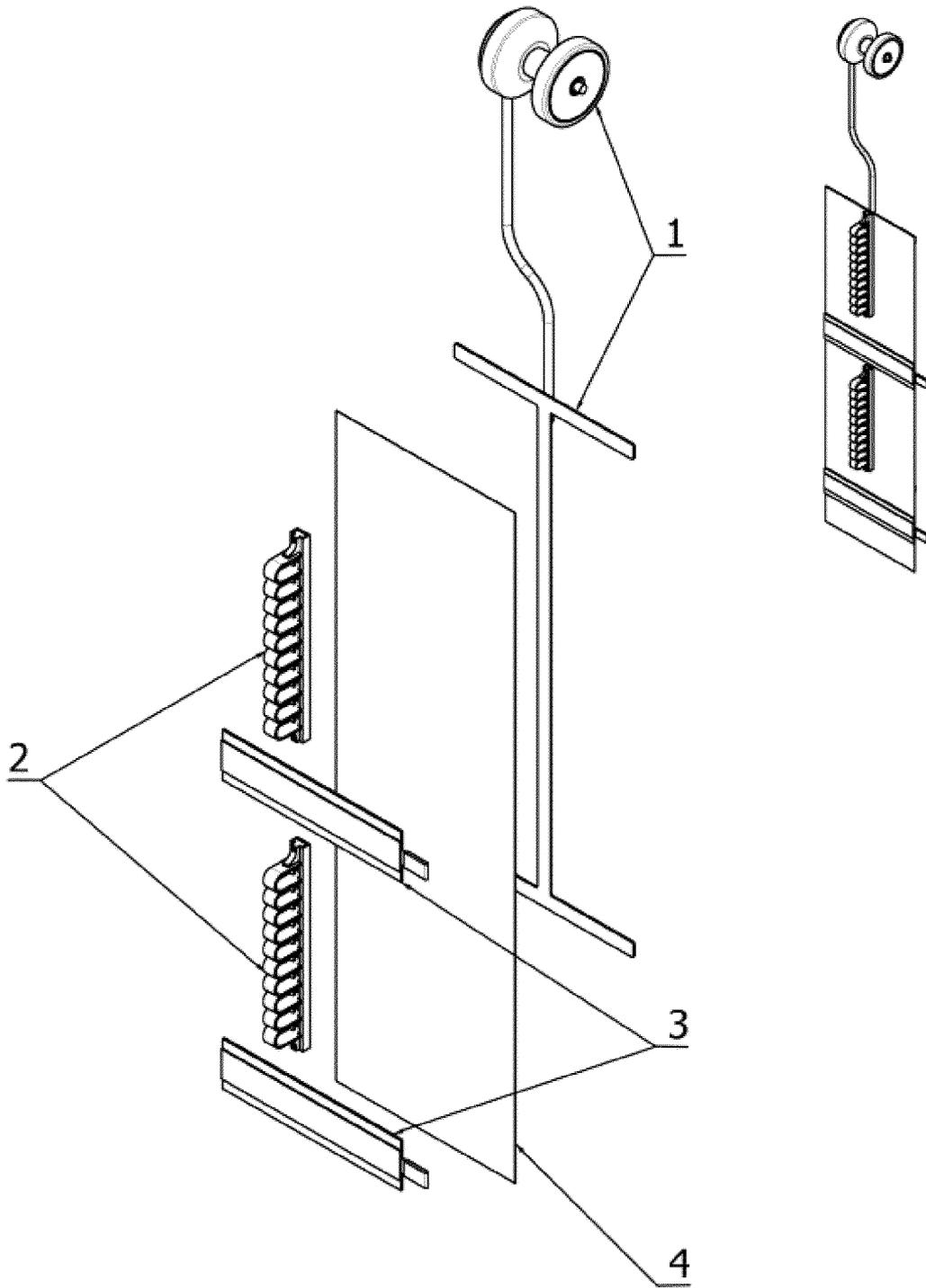


Figure 5

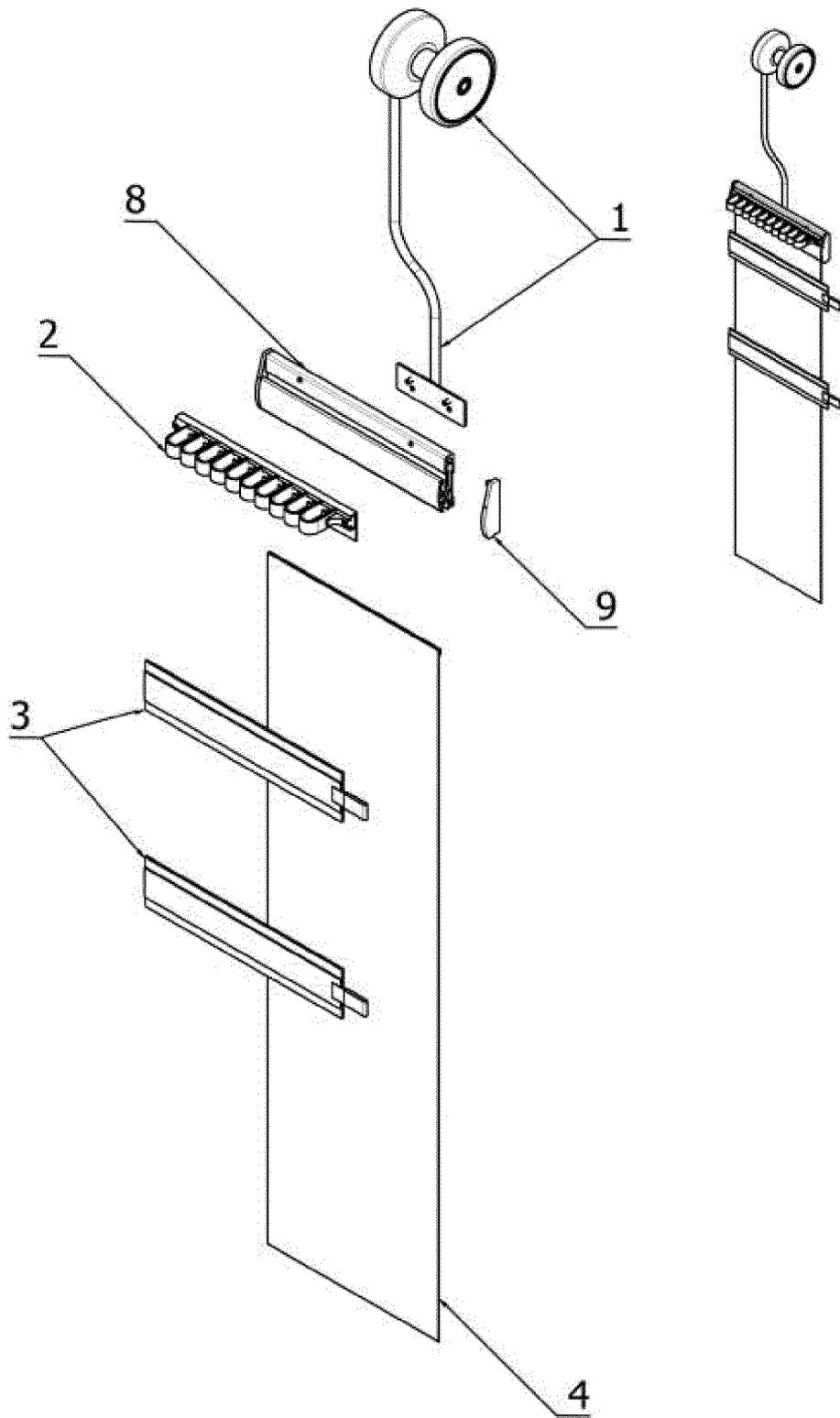


Figure 6

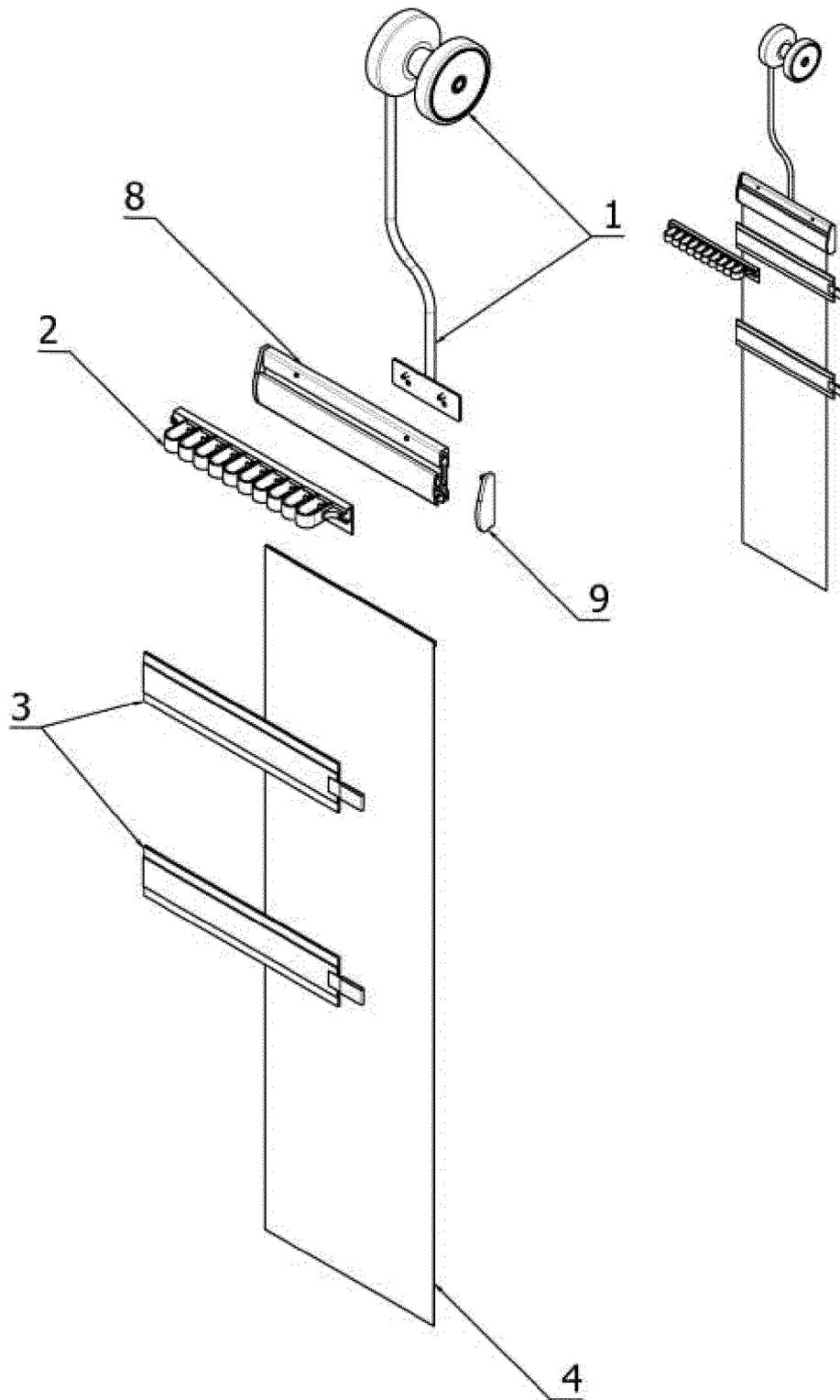


Figure 7

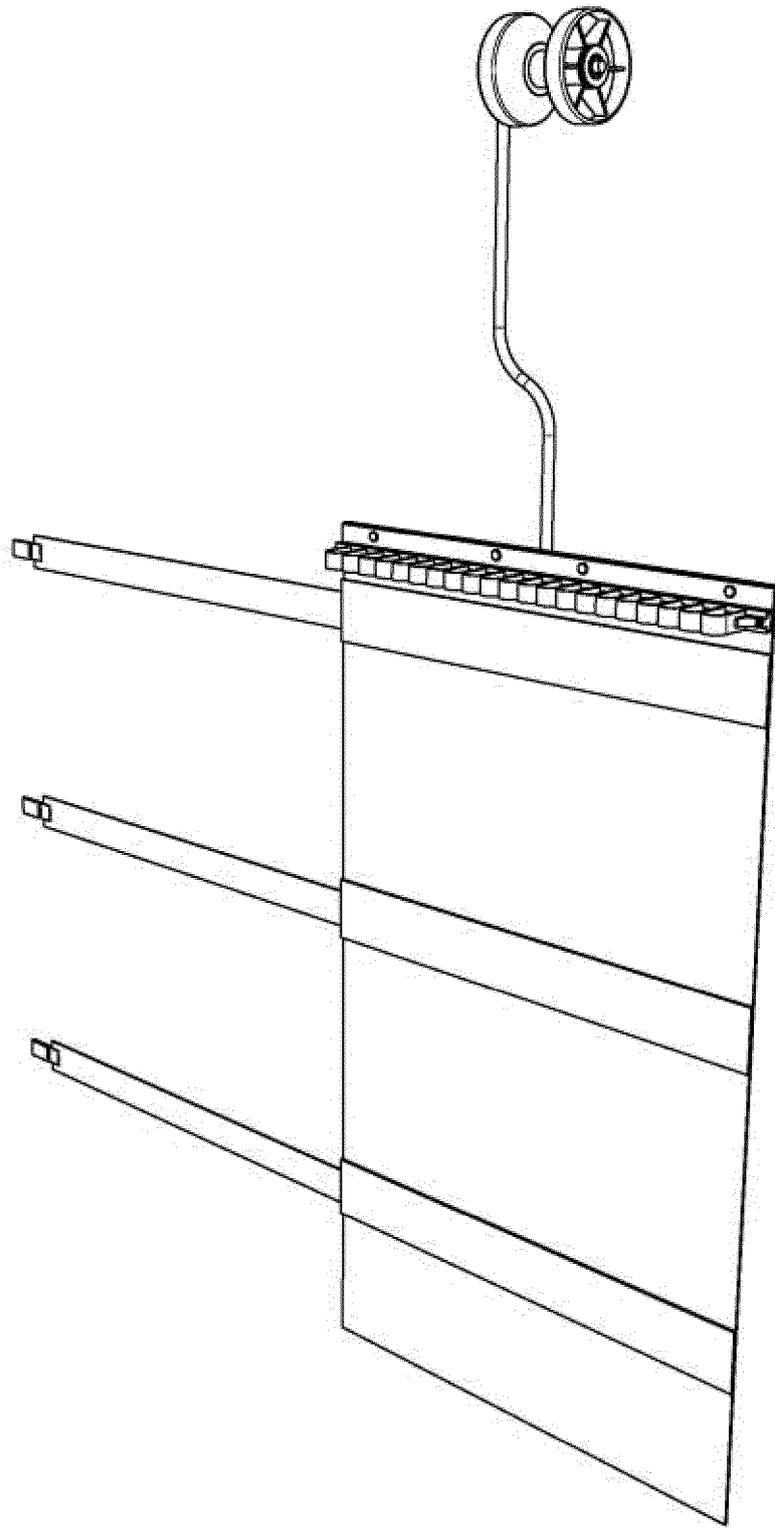


Figure 8

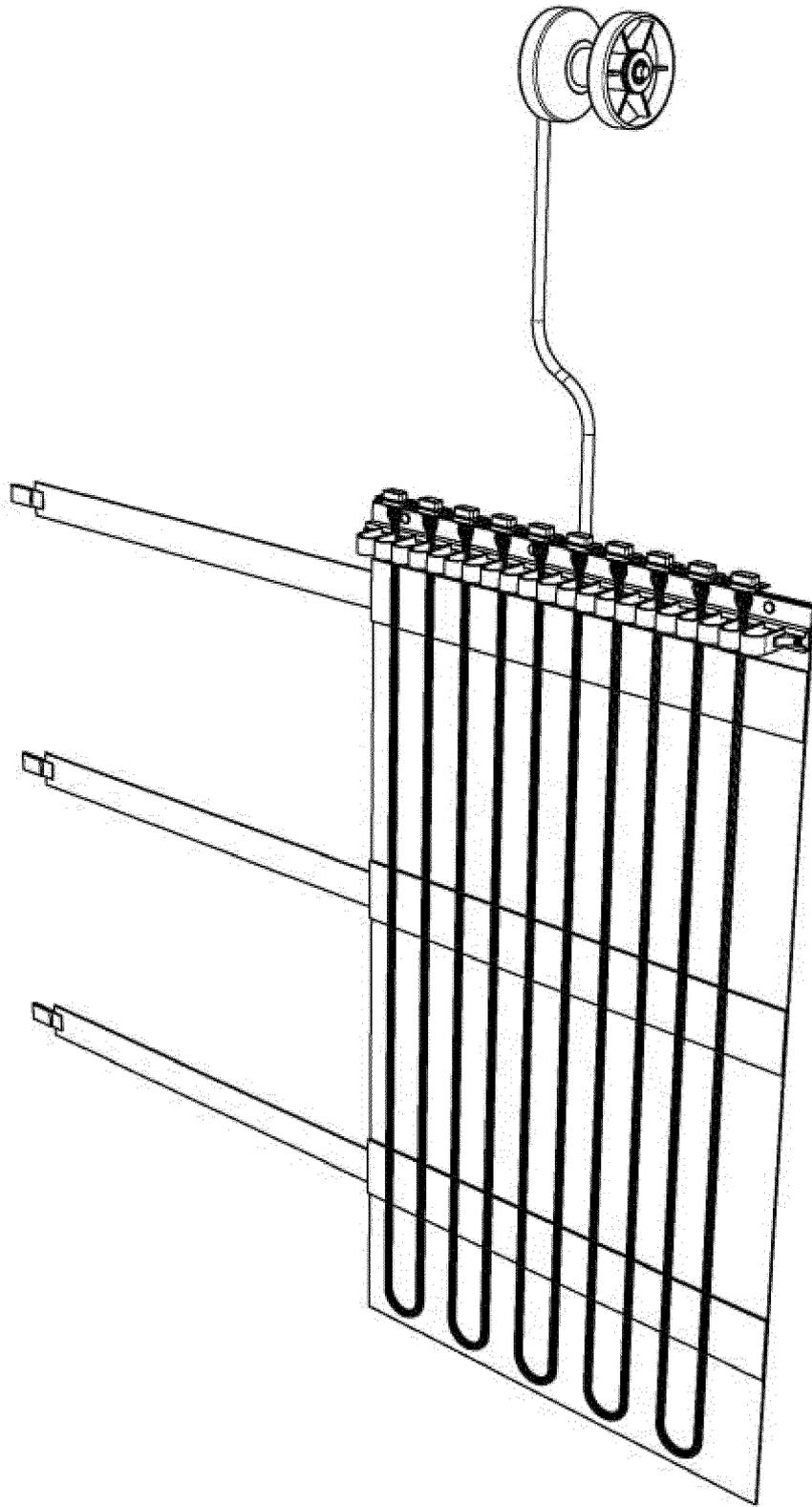


Figure 9

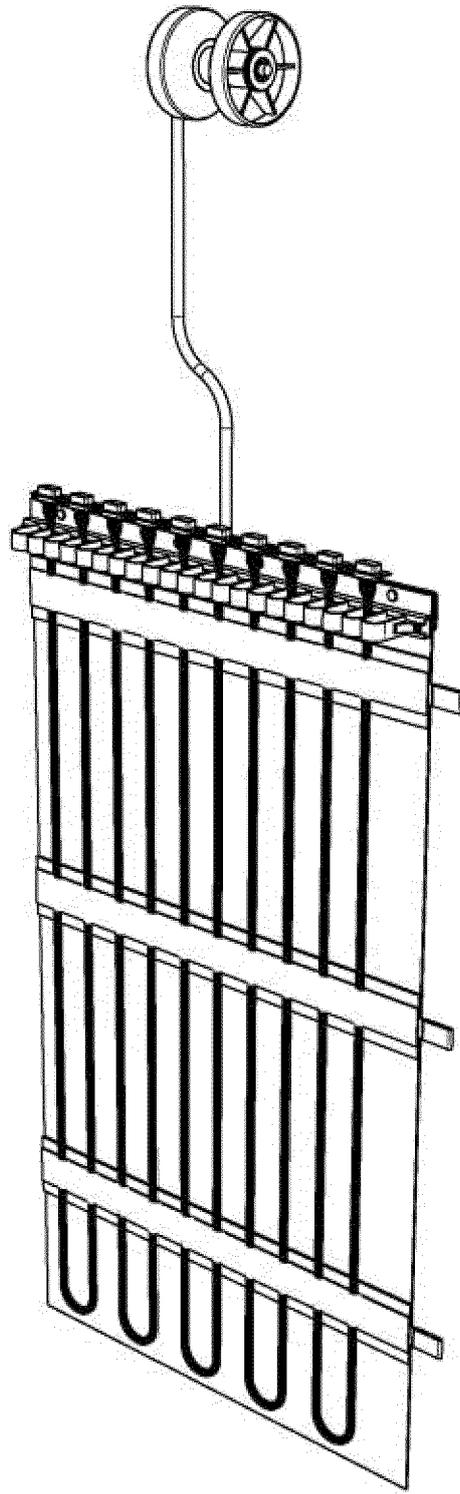


Figure 10

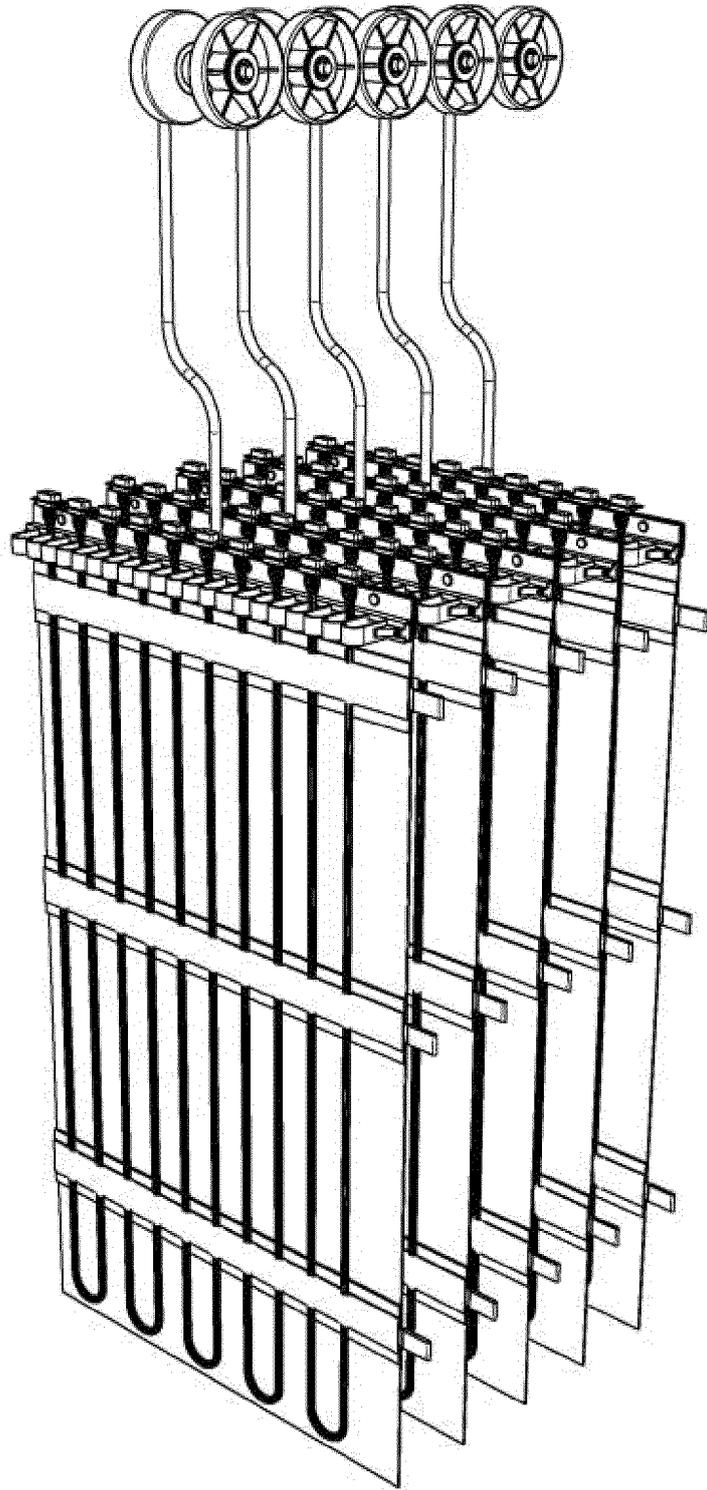


Figure 11

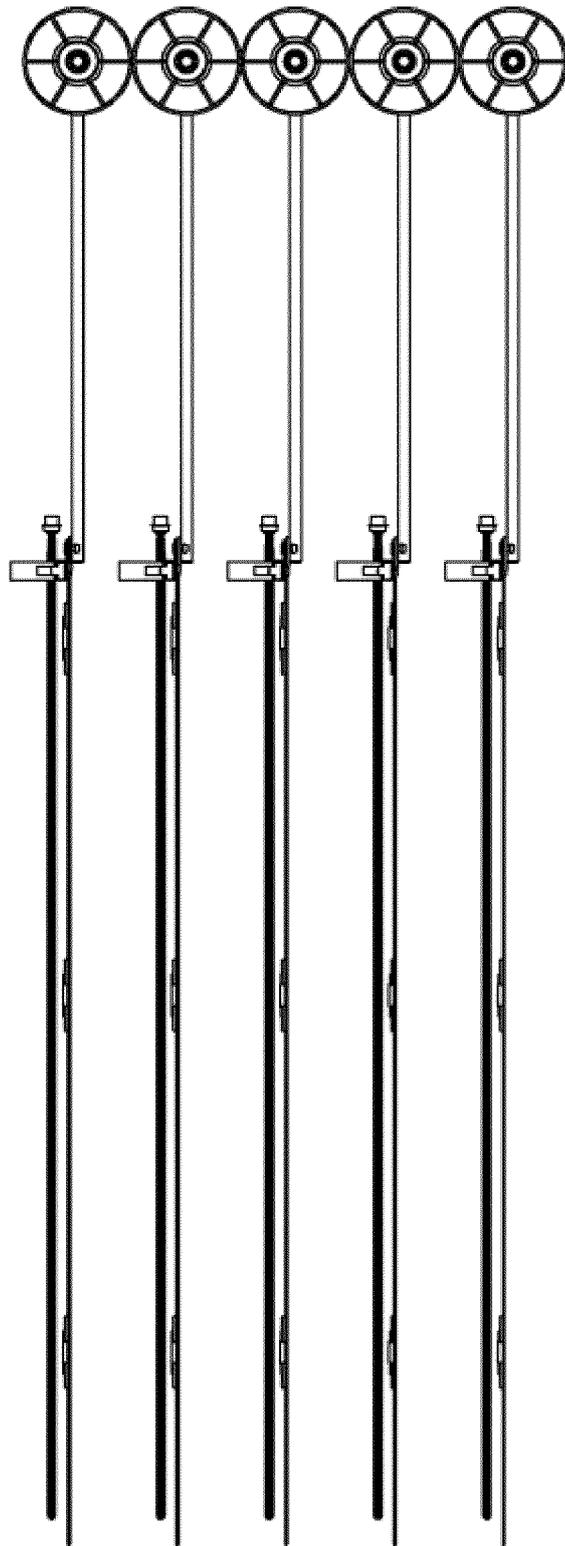


Figure 12

## RELATÓRIO DE PESQUISA INTERNACIONAL

Depósito internacional Nº

PCT/IB2016/055277

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|--|--|---|
| A. CLASSIFICAÇÃO DO OBJETO   |  | INV. B65H75/36<br>ADD.  |
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| 20   | Categoria*   | Documentos citados, com indicação de partes relevantes, se apropriado   |
|  |  | Relevante para as reivindicações Nº   |
|  | X  | WO 2004/000073 A1 (NEWELL LTD [GB]; ROWE TONY [GB]) 31 Dezembro 2003 (2003-12-31)<br>Figura: 1  |
|  |  | -----   |
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|  |  | -----   |
| 30   | X  | US 2013/161067 A1 (FILATOV ALEXANDER [US])<br>27 Junho 2013 (2013-06-27)<br>paragraph [0039]; Figura 1  |
|  |  | -----   |
|  | X  | US 2014/367533 A1 (HARRIS CINDY ANN [US])<br>18 Dezembro 2014 (2014-12-18)<br>Figuras 3,4   |
|  |  | -----   |
| 35   |  | -/--  |
| <input type="checkbox"/> Documentos adicionais estão listados na continuação do Quadro C <input type="checkbox"/> Ver o anexo de família da patentes |  |   |
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| 50   | Data da conclusão da pesquisa internacional  | Data do envio do relatório de pesquisa internacional:   |
|  | 13 Dezembro 2017   | 13 December 2016  |
| 55   | Nome e endereço da ISA/<br>European Patent Office, P.B. 5818 Patentlaan 2<br>NL - 2280 HV Rijswijk<br>Tel. (+31-70) 340-2040,<br>Fax: (+31-70) 340-3016                                  | Funcionário autorizado<br><br>Pussemier, Bart   |
|  | Nº de fax:   | Nº de telefone:   |

Formulário PCT/ISA/210 (segunda página) (Julho 2008)

## RELATÓRIO DE PESQUISA INTERNACIONAL

Depósito internacional N°

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| 5  | Categoria* | Citação do documento com indicação de partes relevantes, quando apropriado   | Relevante para as reivindicações N° |
|----|------------|--|-------------------------------------|
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Formulário PCT/ISA/210 (continuação da segunda página) (Julho 2008)

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RELATÓRIO DE PESQUISA INTERNACIONAL  
 Informação relativa a membros da família de patentes

Depósito internacional Nº  
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| 5  | Documentos de patente citados no relatório de pesquisa | Data de publicação | Membro(s) da família de patentes   | Data de publicação   |
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