



(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
27.12.2023 Bulletin 2023/52

(51) International Patent Classification (IPC):
A61H 19/00 (2006.01)

(21) Application number: **23020239.2**

(52) Cooperative Patent Classification (CPC):
A61H 19/44; A61H 19/30; A61H 23/02;
A61H 2201/0153; A61H 2201/1685

(22) Date of filing: **23.05.2023**

(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 ME MK MT NL
NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA
Designated Validation States:
KH MA MD TN

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(30) Priority: **23.05.2022 PT 2022012145 U**

(54) **VIBRATORY THERAPEUTIC MASSAGER FOR THE PERINEAL AND PELVIC REGION**

(57) The present utility model refers to a vibrating device (1), made of smooth-textured ABS plastic, consisting of a rounded top (2) measuring 1 cm by 1.4 cm, with vibration (3) on the front side, and a USB cable input at its base (4), making it rechargeable through electricity. It features four interchangeable tips (5) made of ABS plastic that can be attached/detached to the vibrating de-

vice (1), and an elastomer cover (6) designed to be used over the smaller pointed tip. Each tip has a different shape and purpose, aiding in the treatment of dysfunctions in the perineal and pelvic region of women, men, and children aged 5 and above. The present utility model is also suitable for maintaining health and can enhance sexual pleasure for both men and women.

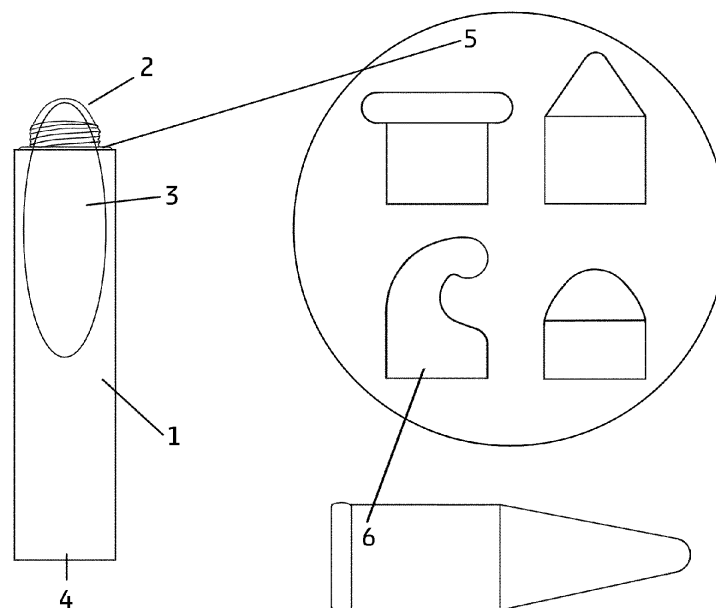


Figure 1

Description

[0001] The present utility model refers to a vibrating device (1), made of smooth-textured ABS plastic, with a length of up to 9 cm from the base to the top. The rounded top (2) measures 1 cm by 1.4 cm and has vibration (3) on the front side. It has a USB cable input at the 2 cm base (4) and features four interchangeable ABS plastic tips (5) that can be attached/detached to the vibrating device (1). One of the tips is a smaller pointed tip (a), with a thickness of 0.5 cm at its narrowest part on the top, measuring 3 cm by 2 cm. This tip is suitable for insertion in the vaginal and anal canal, particularly for cases involving local tension, difficulty in penetration, or small genital anatomy. Another tip is a larger oval pointed tip (b), with a thickness of 1.5 cm at its narrowest part on the top, measuring 2.2 cm by 2 cm. It is indicated for both external and internal treatment in the perineal and vulvar region, particularly for use on the clitoris, labia minora and majora, vaginal and anal canal.

It is also suitable for use on the entire penis and pelvic regions, as well as local muscles;

The hook-shaped tip (c) has a thickness of 0.5 cm at the tip of the hook, with dimensions of 2.8 cm by 2 cm. It is indicated for working on the perineal and vulvar region, as well as the penis and anus. Its hook shape is suitable for stimulating the vaginal walls, the G-spot region, and the lower wall. It is also recommended for 360-degree stimulation of the walls and prostate stimulation; The flat tip (d) has a thickness of 3 cm at the top, a 2 cm base, and a length of 2.2 cm. It is indicated for external treatment and for treating larger areas of the body; Additionally, the massager includes an elastomer cover (6) in a whitish color, with a length of 7.5 cm (3.5 cm at the base and 4 cm at the hardened and pointed part). The base has a diameter of 2.2 cm, and the hardened tip has a diameter of 1 cm. This cover is designed to be used over the smaller pointed tip.

[0002] The massager device features vibration ranging from 20Hz to 150Hz in frequency, with an amplitude of 1.5 microseconds, according to the user's needs. It operates on electricity through the USB input at its base, making it rechargeable. It is suitable for women, men, and children with dysfunctions in the perineal region and pelvic floor muscles. It is recommended for people suffering from urinary and fecal incontinence, urinary retention (difficulty urinating), anal and vaginal fissures, musculoskeletal injuries (e.g., fractures), pain, and tension in the perineal region during pre-delivery, delivery, and post-delivery. It is also beneficial for circulatory impairment, vaginismus (difficulty or impossibility of vaginal penetration), vulvodynia (burning, pain, and difficulty in vaginal penetration), tissue injuries and scars, nerve-related changes, among others.

[0003] Its use is recommended for treating dysfunc-

tions in the pelvic region of women, men, and children aged 5 and above. It is also indicated for maintaining overall health in that area.

[0004] The field of application for this new Vibratory Therapeutic Massager device encompasses its use and commercialization in the market for healthcare devices and accessories. Additionally, it can also be used in the field of sexuality, including in sex shops.

[0005] Among the main purposes of the new Vibratory Therapeutic Massager, we highlight its potential to treat urological conditions (when used on the penis, vagina, and perineal region), gynecological conditions (vagina and perineal region), proctological conditions (anus and perineal region), obstetrical conditions (vagina, perineal region, and sacral area), and sexual conditions (penis, vagina, anus, clitoris, and perineal region).

[0006] In the sexual realm, it has purposes related to the treatment and prevention of anal, vaginal, and penile conditions. In obstetrics, it is indicated for relaxing the perineum and strengthening the pelvic floor muscles for childbirth, as well as assisting in the treatment of postpartum scars.

[0007] In the prior art, it can be observed that there is currently a utility model patent No. BR 202012015849-9, owned and invented by the present inventor, granted on 27/06/2012. However, there is a recognized need for improvement of the previously existing device, as it was not designed to accommodate different anatomies, including those of children. Additionally, there are various other models of vibrators available in the market, but they are primarily focused on sexual purposes, aiming to stimulate erogenous zones and provide pleasure.

[0008] The newly proposed device is a therapeutic massager model with smaller dimensions than the existing one, aiming to facilitate and assist in treatments for individuals with closed or smaller genital organs. Its smaller dimensions help to avoid pain or discomfort that may arise from using larger devices.

[0009] In order to enhance this type of accessory, the new therapeutic massager model offers the following technical advantages: The device is designed to massage the perineal region and muscles in the pelvic area of women, men, and children aged 5 and above. It has dimensions of length and width that can accommodate different body types, without causing pain or discomfort. It allows the device to work effectively in various anatomical regions, including tighter or smaller vaginas, vaginal walls, gluteal muscles, and other local regions. It features four interchangeable tips that are designed to respect the dimensions and prevent any damage to the perineal and pelvic floor regions. The massager includes an elastomer cover specifically designed to be used over the smaller pointed tip. This cover aims to facilitate the insertion of the tip without causing any burning or pain. The new therapeutic massager model is rechargeable and operates on electricity. It features a USB input at its base, contributing to environmental sustainability by eliminating the need for batteries and reducing waste. Overall,

these technical innovations aim to improve the effectiveness, comfort, and sustainability of the therapeutic massager for a wide range of users.

[0010] To obtain a complete and comprehensive understanding of the constitution of the new Vibratory Therapeutic Massager for the perineal and pelvic region, as described in this Utility Model Patent, please refer to the accompanying illustrative drawings, to which references are made as follows.

Figure 1: Front view of the new Vibratory Therapeutic Massager for the perineal and pelvic region, featuring the four interchangeable tips and the elastomer cover.

Figure 1.1: Side view of the new Vibratory Therapeutic Massager for the perineal and pelvic region.

Figure 1.2: Close-up view of the base of the new Vibratory Therapeutic Massager for the perineal and pelvic region.

Figure 2: Front view of the elastomer cover designed to be used over the smaller pointed tip (a).

Figure 2.1: It represents a side view of the elastomer cover.

Figure 3: Front view of the Smaller Pointed Tip for the new Vibratory Therapeutic Massager for the perineal and pelvic region, indicated for insertion into the vaginal and anal canal with increased local tension, difficulty in penetration, or small genital anatomy.

Figures 3.1 e 3.2: Front and side perspective views, respectively, of the Smaller Pointed Tip for the new Vibratory Therapeutic Massager for the perineal and pelvic region, indicated for insertion into the vaginal and anal canal with increased local tension, difficulty in penetration, or small genital anatomy.

Figure 4: Front view of the Larger Oval-shaped Pointed Tip for the new Vibratory Therapeutic Massager for the perineal and pelvic region, indicated for external and internal treatment. It is recommended for use on the perineal and vulva region, including the clitoris, labia minora and labia majora, as well as the vaginal and anal canal.

Figures 4.1 e 4.2: Front and side perspective views, respectively, of the Larger Oval-shaped Pointed Tip for the new Vibratory Therapeutic Massager for the perineal and pelvic region, indicated for external and internal treatment. It is recommended for use on the perineal and vulva region, including the clitoris, labia minora and labia majora, as well as the vaginal and anal canal.

Figure 5: Front view of the Hook-shaped Tip for the new Vibratory Therapeutic Massager for the perineal and pelvic region, indicated for stimulating the vaginal walls, the G-spot region, and the lower wall. It is also recommended for 360-degree wall stimulation and prostate stimulation.

Figures 5.1 e 5.2: Front and side views of the hook-shaped tip for the new Vibratory Therapeutic Massager for the perineal and pelvic region, indicated

for stimulating the vaginal walls, the G-spot region, and the lower wall. It is also recommended for 360-degree wall stimulation and prostate stimulation.

Figure 6: Front view of the Flat Tip for the new Vibratory Therapeutic Massager for the perineal and pelvic region, indicated for external treatment and for large areas of the body.

Figures 6.1 e 6.2: Front and side views of the Flat Tip for the new Vibratory Therapeutic Massager for the perineal and pelvic region, indicated for external treatment and for large areas of the body.

[0011] After all the information presented, it is evident that the new Vibratory Therapeutic Massager for the perineal and pelvic region brings essential improvements compared to existing products in the market. It offers the possibility of use for children from the age of 5, as well as addressing the needs of individuals with smaller genital anatomy, both in men and women. One great advantage is its smaller dimensions, making the device more discreet and practical, easily portable to different locations. Lastly, it is a rechargeable device that can be powered through a USB cable connected to its base, adding convenience to its usage.

Lisbon, on May 16, 2023.

Claims

1. - The vibratory therapeutic massager for the perineal and pelvic region is **characterized by** a vibrating device (1) made of smooth-textured ABS plastic. It has a length of up to 9 cm from the base to the top, with a rounded top (2) measuring 1 cm by 1.4 cm. The device features vibration (3) on the front part and a USB cable input at the base (4). It includes four interchangeable ABS plastic tips (5) that can be easily attached/detached to the vibrating device (1) and is covered by an elastomer sleeve (6).
2. - The vibratory therapeutic massager for the perineal and pelvic region according to claim 1 is **characterized by** the vibrating device (1) having a vibration (3) that ranges from 20Hz to 150Hz in frequency, with an amplitude of 1.5 microseconds.
3. - The vibratory therapeutic massager for the perineal and pelvic region according to claim 1 is **characterized by** a smaller pointed tip (a) with a thickness of 0.5 cm at the narrowest part of the top, measuring 3 cm by 2 cm in dimensions.
4. - The vibratory therapeutic massager for the perineal and pelvic region according to claim 1 is further **characterized by** a larger oval-shaped pointed tip (b) with a thickness of 1.5 cm at the narrowest part of the top, measuring 2.2 cm by 2 cm in dimensions.

5. - The vibratory therapeutic massager for the perineal and pelvic region according to claim 1 is further **characterized by** a hook-shaped tip (c) with a thickness of 0.5 cm at the tip of the hook, measuring 2.8 cm by 2 cm in dimensions. 5
6. - The vibratory therapeutic massager for the perineal and pelvic region according to claim 1 is further **characterized by** a flat tip (d) with a thickness of 3 cm at the top, a base width of 2 cm, and a length of 2.2 cm. 10
7. - The vibratory therapeutic massager for the perineal and pelvic region according to claim 1 is further **characterized by** a whitish elastomer sleeve (6) with a length of 7.5 cm, measuring 2.2 cm at the base and 1 cm at the hardened tip. 15

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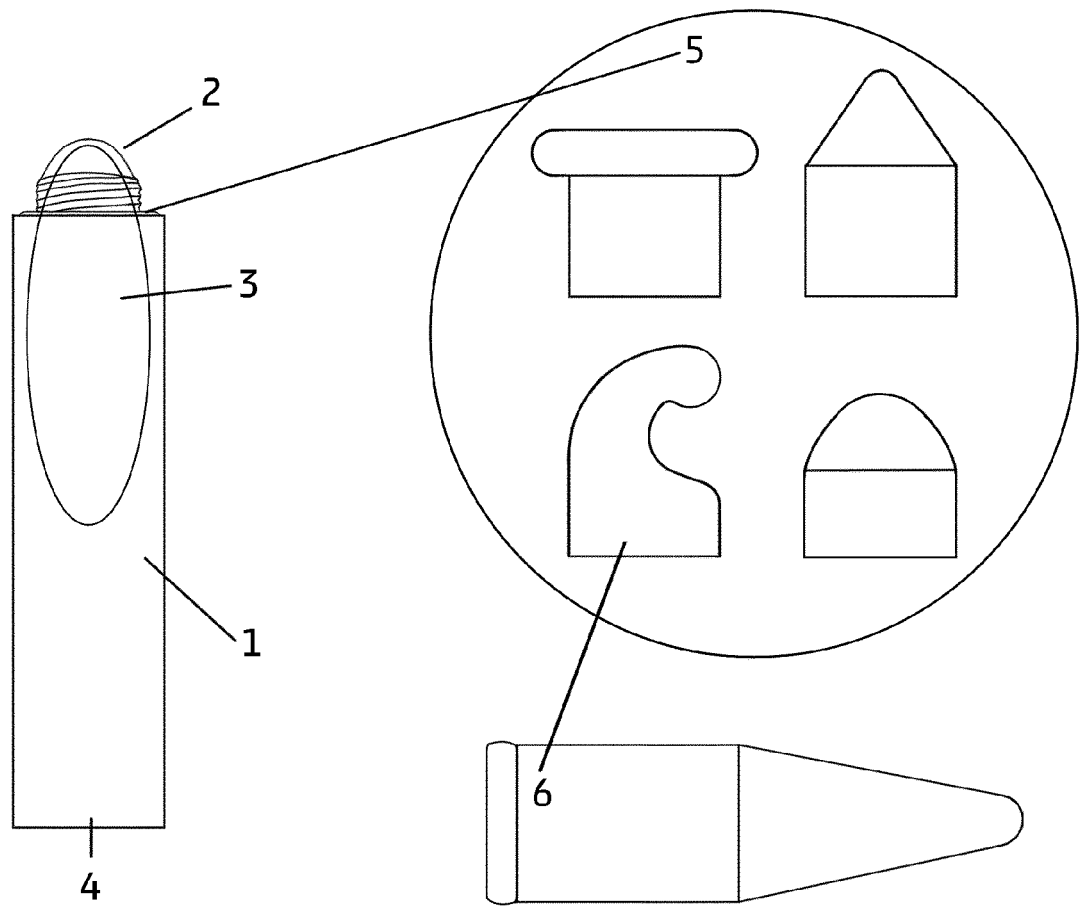


Figure 1

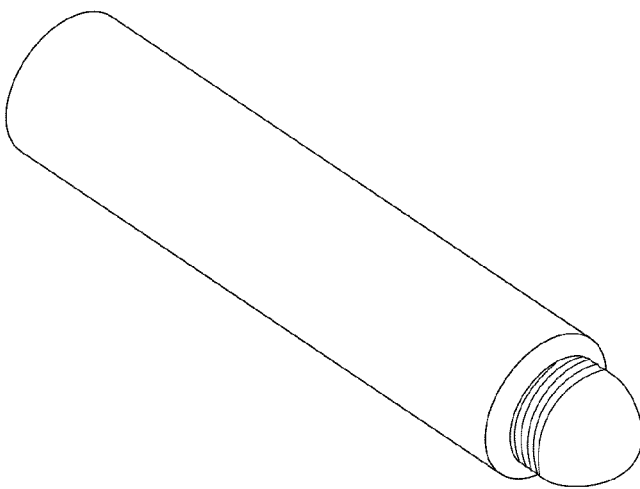


Figure 1.1

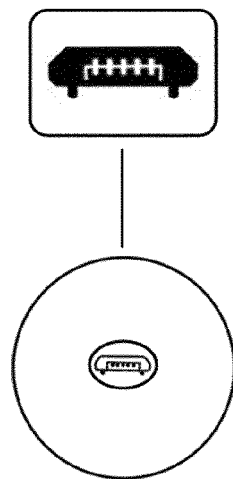


Figure 1.2

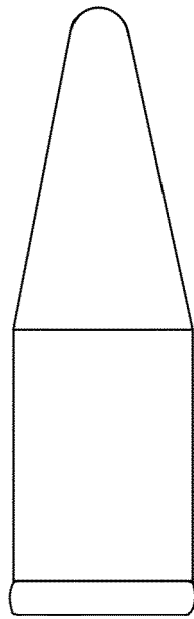


Figure 2

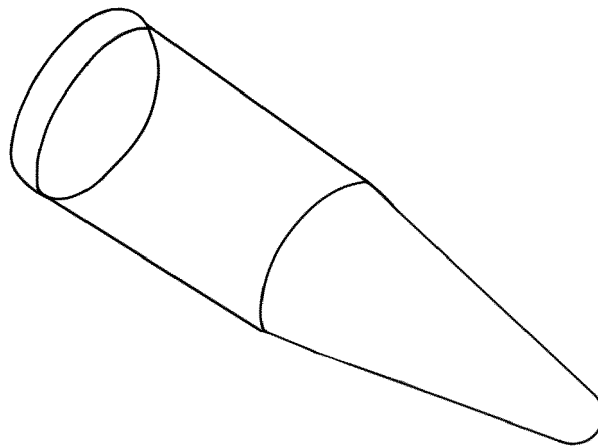


Figure 2.1

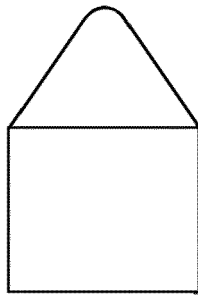


Figure 3

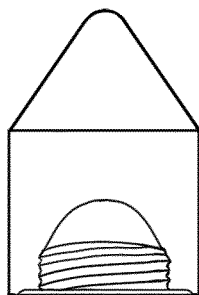


Figure 3.1

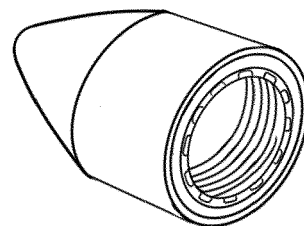


Figure 3.2

(a)

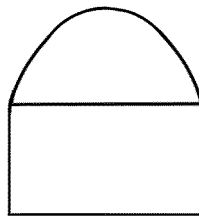


Figure 4

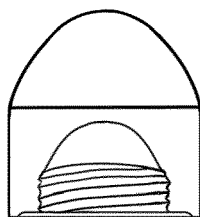


Figure 4.1

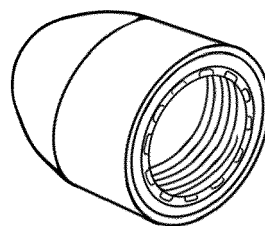


Figure 4.2

(b)

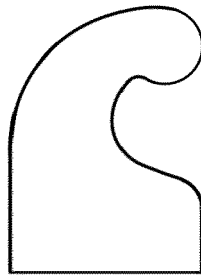


Figure 5

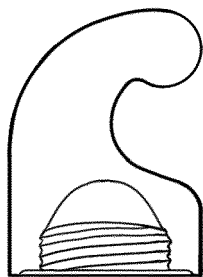


Figure 5.1

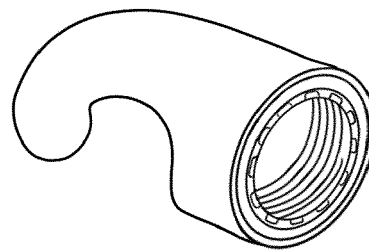


Figure 5.2

(c)

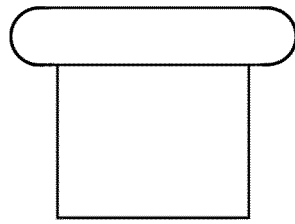


Figure 6

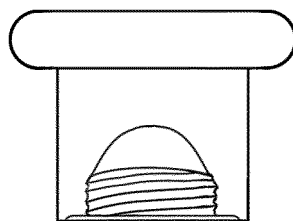


Figure 6.1

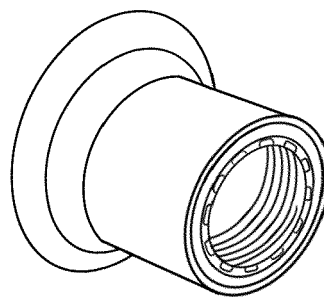


Figure 6.2

(d)



EUROPEAN SEARCH REPORT

Application Number

EP 23 02 0239

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EPO FORM 1503 03.82 (P04C01)

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	BR 2020 1201 5849 U2 (ANTONIO FABIANE DELL [BR]) 25 August 2015 (2015-08-25) * page 1 – page 6; figures * -----	1-7	INV. A61H19/00
Y	WO 2009/117390 A1 (BUCHHOLZ ERIC K [US]) 24 September 2009 (2009-09-24) * page 12 – page 20; figures * -----	1-7	
Y	US 2011/009693 A1 (BORRERO DANIEL WESTERBAND [US]) 13 January 2011 (2011-01-13) * paragraph [0015] – paragraph [0037]; figures * -----	1-7	
Y	US 2014/288364 A1 (ST BERNARD TIFFANY [US]) 25 September 2014 (2014-09-25) * paragraph [0048] – paragraph [0055]; figures * -----	1-7	
Y	DE 103 52 219 A1 (KUEBLER BASTIAN [DE]) 9 June 2005 (2005-06-09) * paragraph [0020] – paragraph [0023]; figures * -----	1-7	TECHNICAL FIELDS SEARCHED (IPC) A61H
A	EP 2 308 446 B1 (WING POW INTERNAT CORP [US]) 29 October 2014 (2014-10-29) * paragraph [0022]; figures * -----	1-7	
Y	US 2009/275796 A1 (GIL NOAM [IL]) 5 November 2009 (2009-11-05) * paragraph [0083]; figures * -----	2	
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 13 November 2023	Examiner Gontar, Verena
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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ON EUROPEAN PATENT APPLICATION NO.**

EP 23 02 0239

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
BR 202012015849 U2	25-08-2015	NONE	
WO 2009117390 A1	24-09-2009	US 2009234182 A1	17-09-2009
		WO 2009117390 A1	24-09-2009
US 2011009693 A1	13-01-2011	NONE	
US 2014288364 A1	25-09-2014	NONE	
DE 10352219 A1	09-06-2005	NONE	
EP 2308446 B1	29-10-2014	CN 201710610 U	19-01-2011
		EP 2308446 A1	13-04-2011
		HK 1156498 A1	15-06-2012
		US 2011082332 A1	07-04-2011
		US 2013289343 A1	31-10-2013
		US 2014142375 A1	22-05-2014
		US 2015080772 A1	19-03-2015
		US 2016128896 A1	12-05-2016
US 2009275796 A1	05-11-2009	NONE	

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

- BR 2020120158499 [0007]