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(54) **THEFT-PROOF TRAILER HITCH TONGUE**

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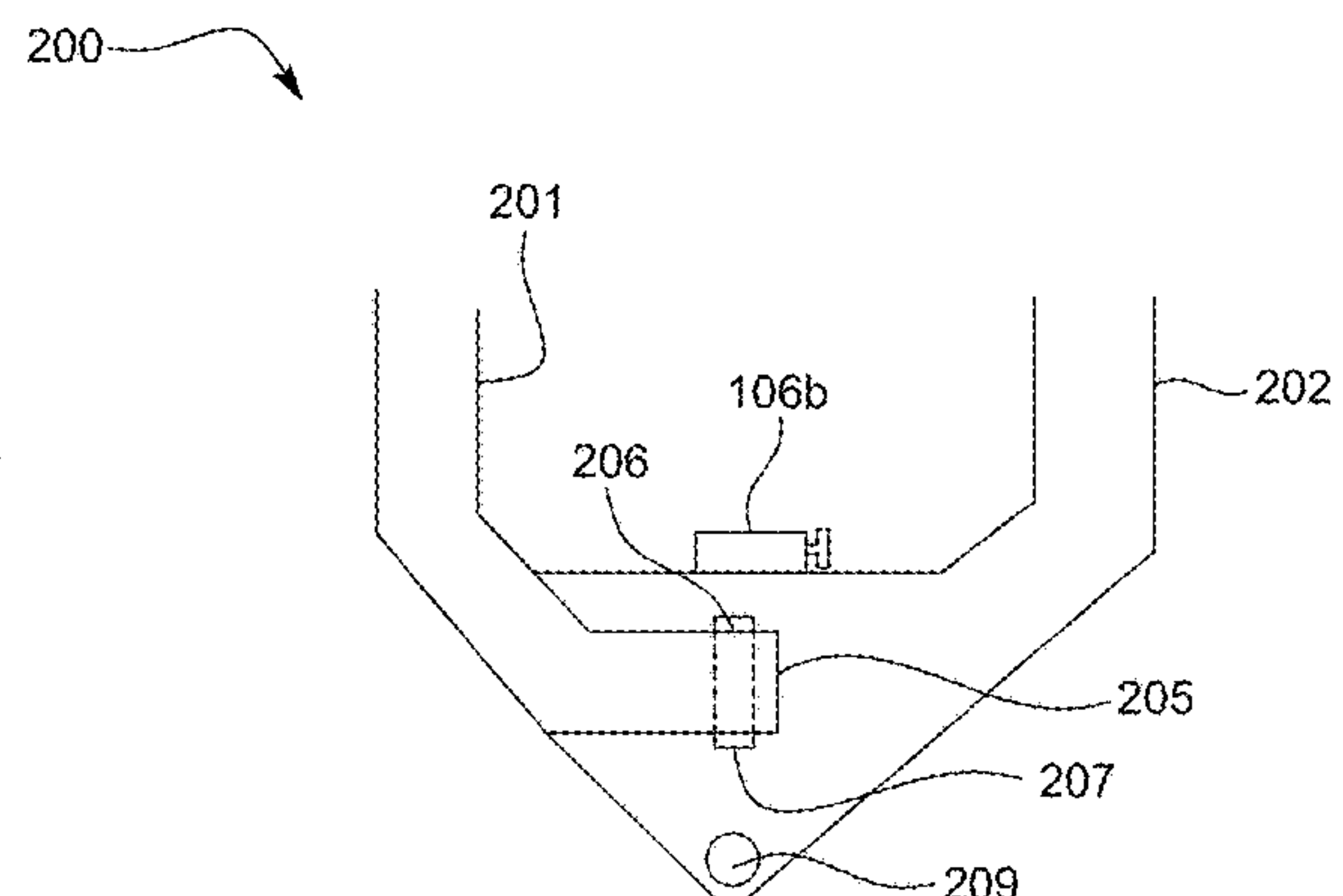
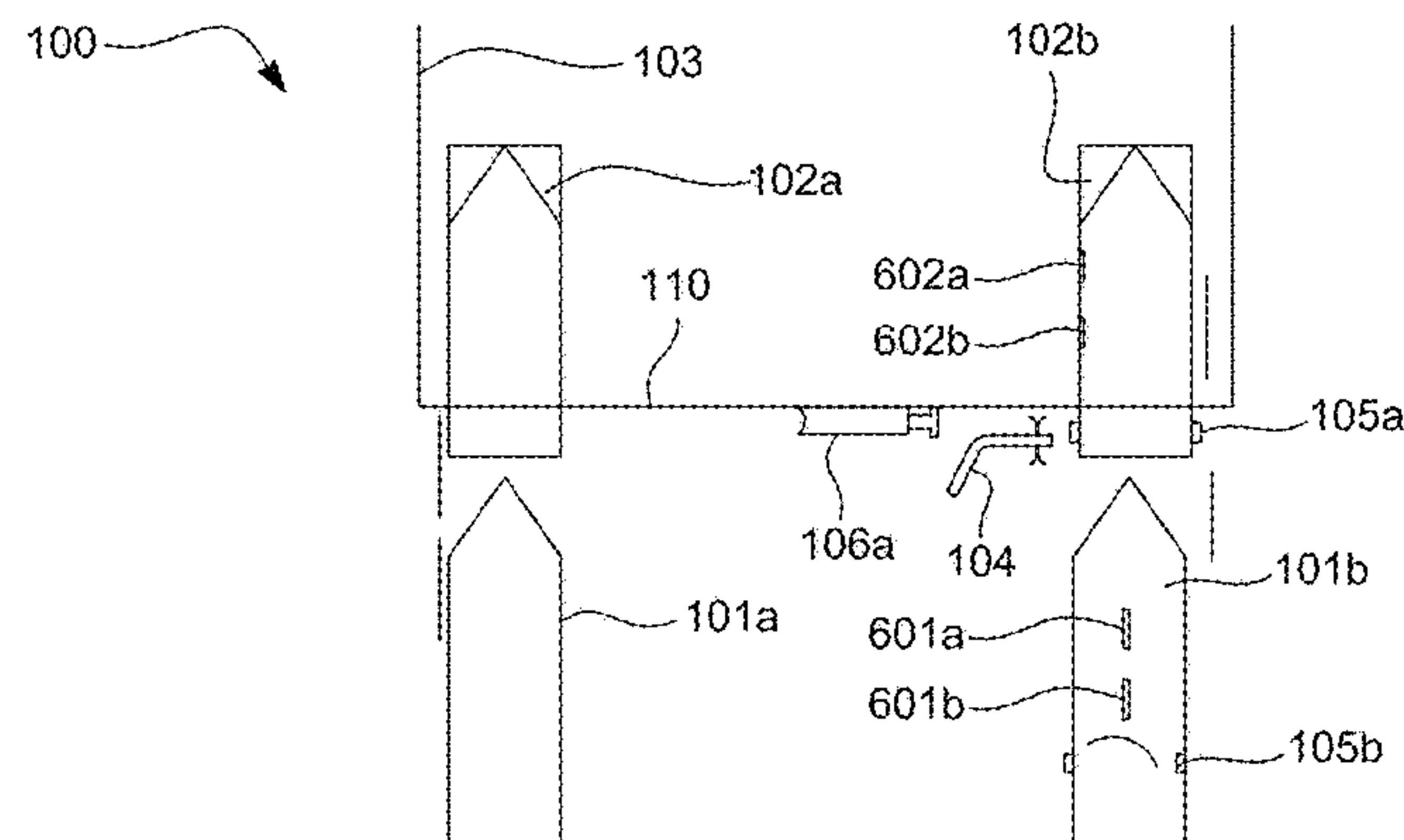
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(57) **ABSTRACT**

An article of manufacture for providing a theft-proof trailer hitch tongue is disclosed. The trailer hitch tongue has two or more mating receivers coupled to a trailer each of the two or more mating receivers having a plurality of locking notches about an inside surface of each mating receiver in a specific orientation, two or more removable arms for engaging the two or more mating receiver, each of the removable arms having a hitch tongue end and a connecting end and together form a split tongue of the trailer hitch, a plurality of locking pegs arranged on each of the two or more removable arms, the plurality of locking pegs being configured to simultaneously engage the plurality of locking notches when the hitch tongue end of the removable arms are inserted in the corresponding mating receiver, and locking latches components on the connecting end of each of the removable arms, the locking latches couple together after the hitch tongue end of the removable arms are inserted in the corresponding mating receiver.

**9 Claims, 5 Drawing Sheets**



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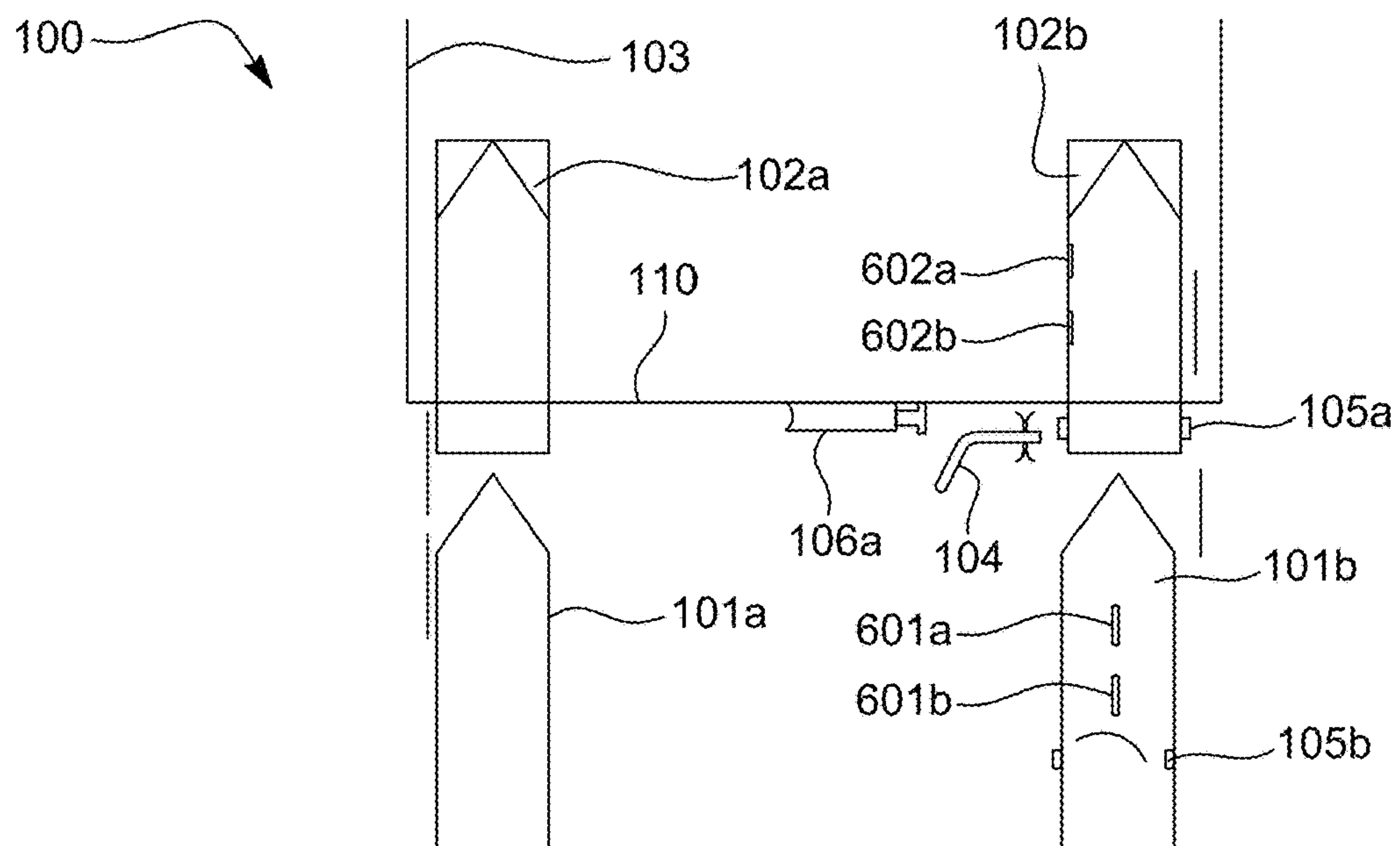


FIG. 1

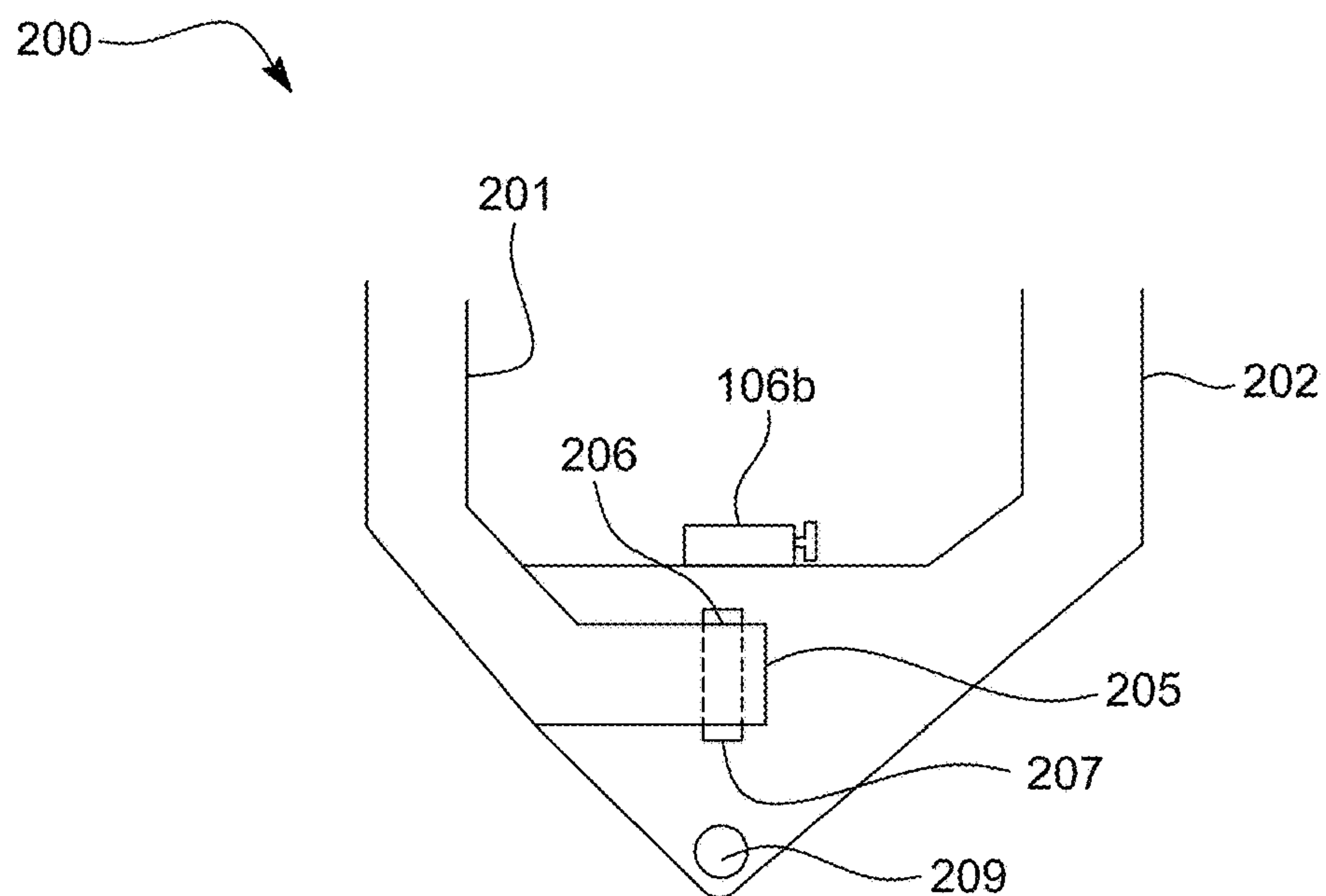


FIG. 2

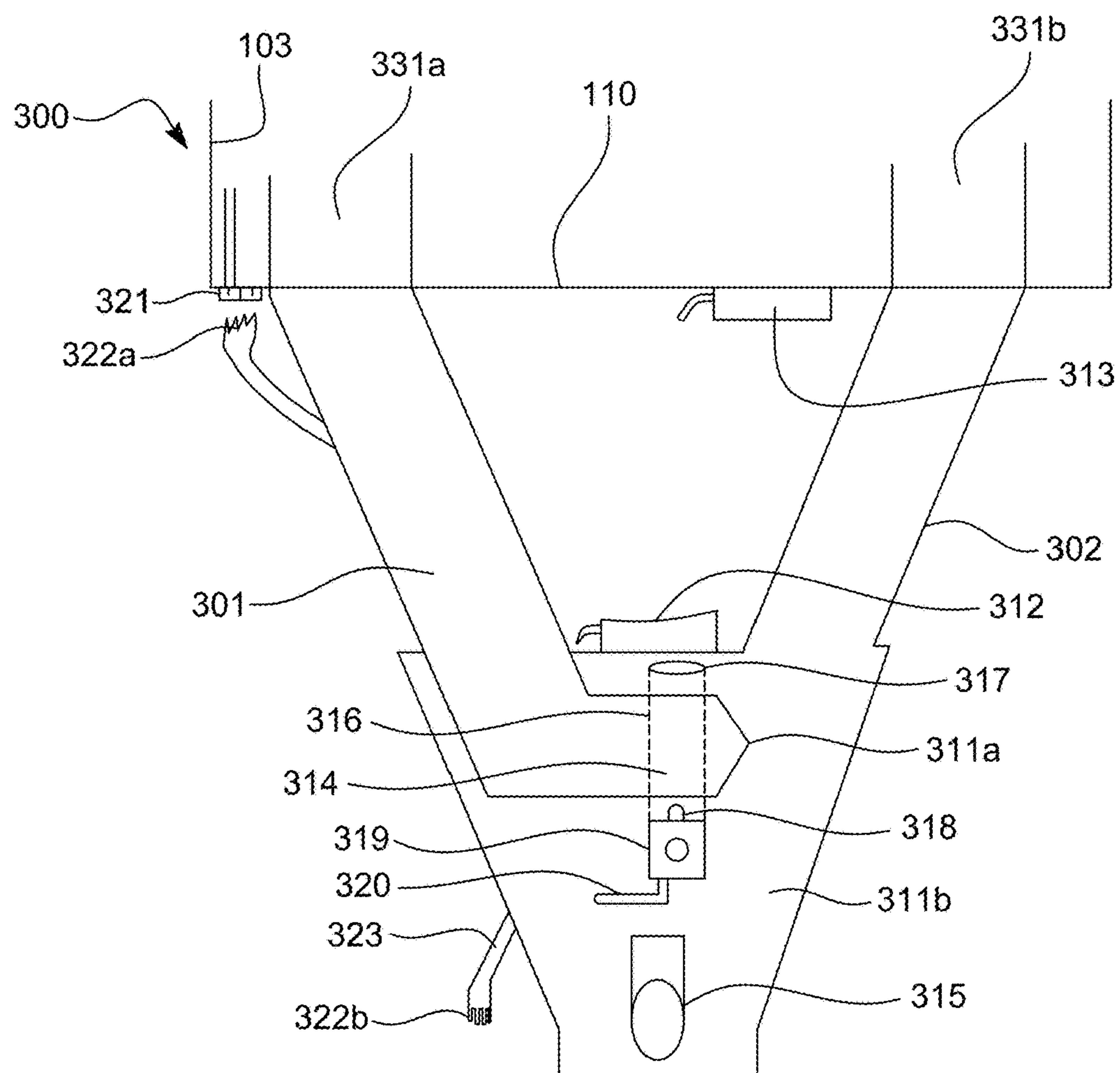


FIG. 3a

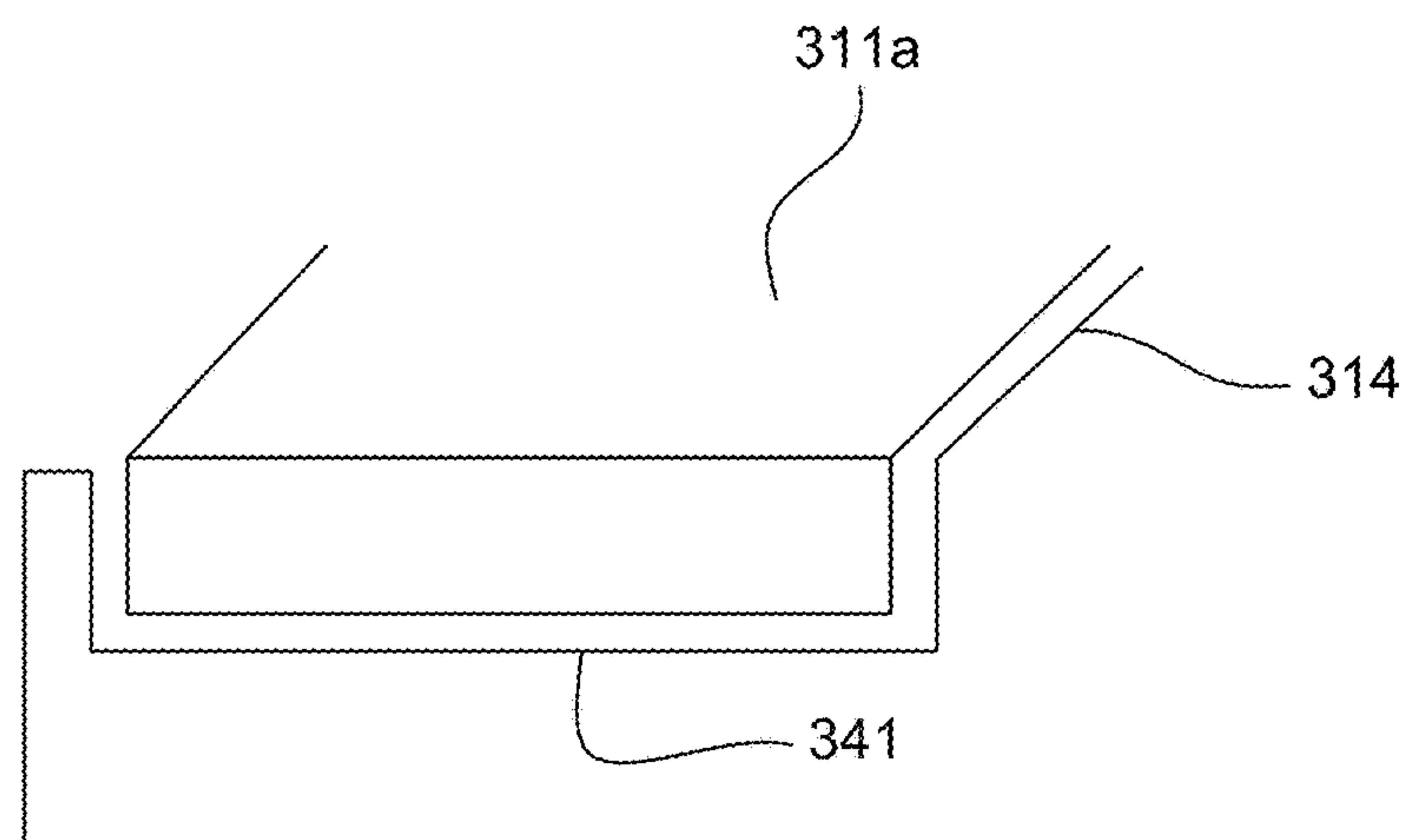


FIG. 3b



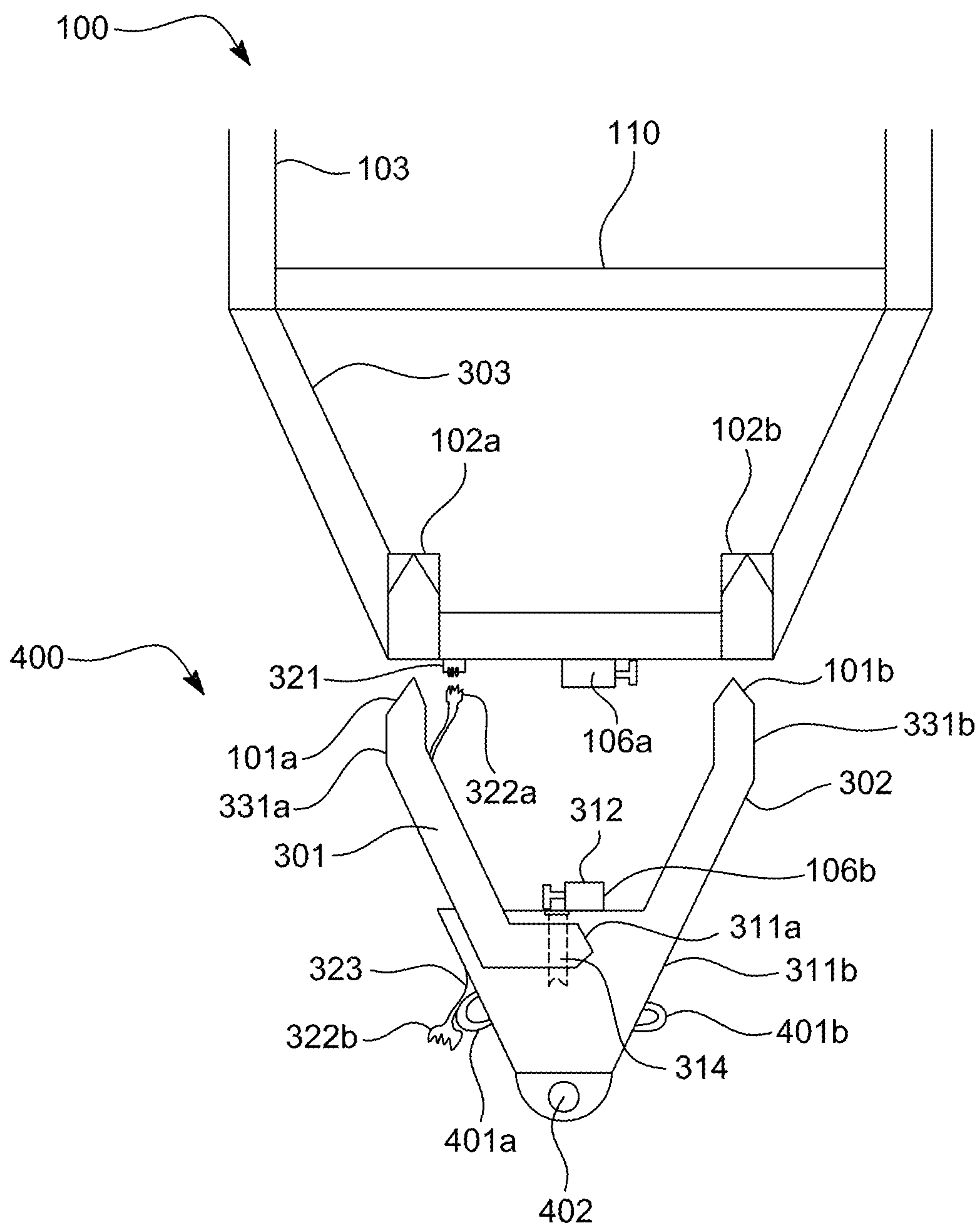


FIG. 4

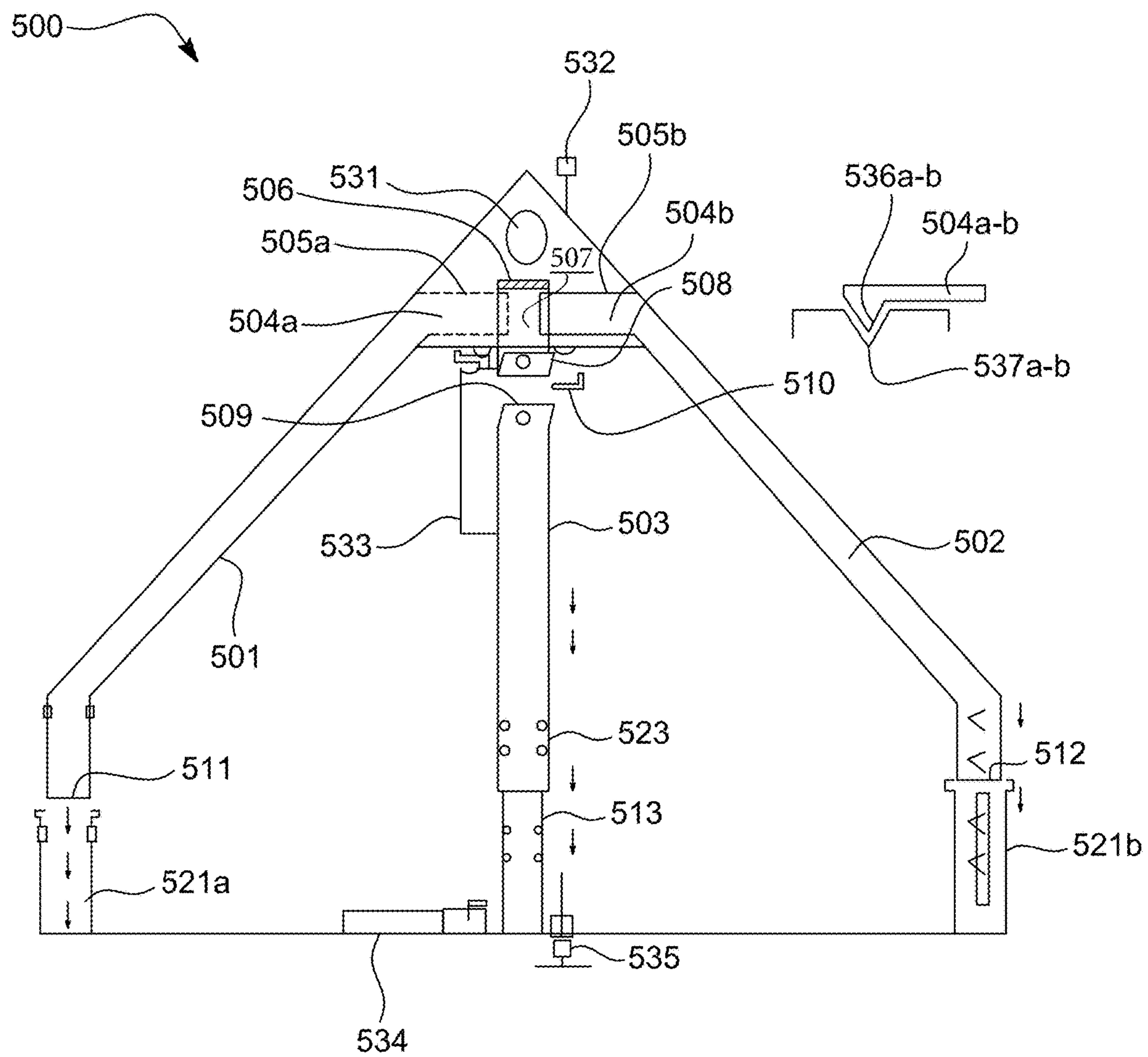


FIG. 5

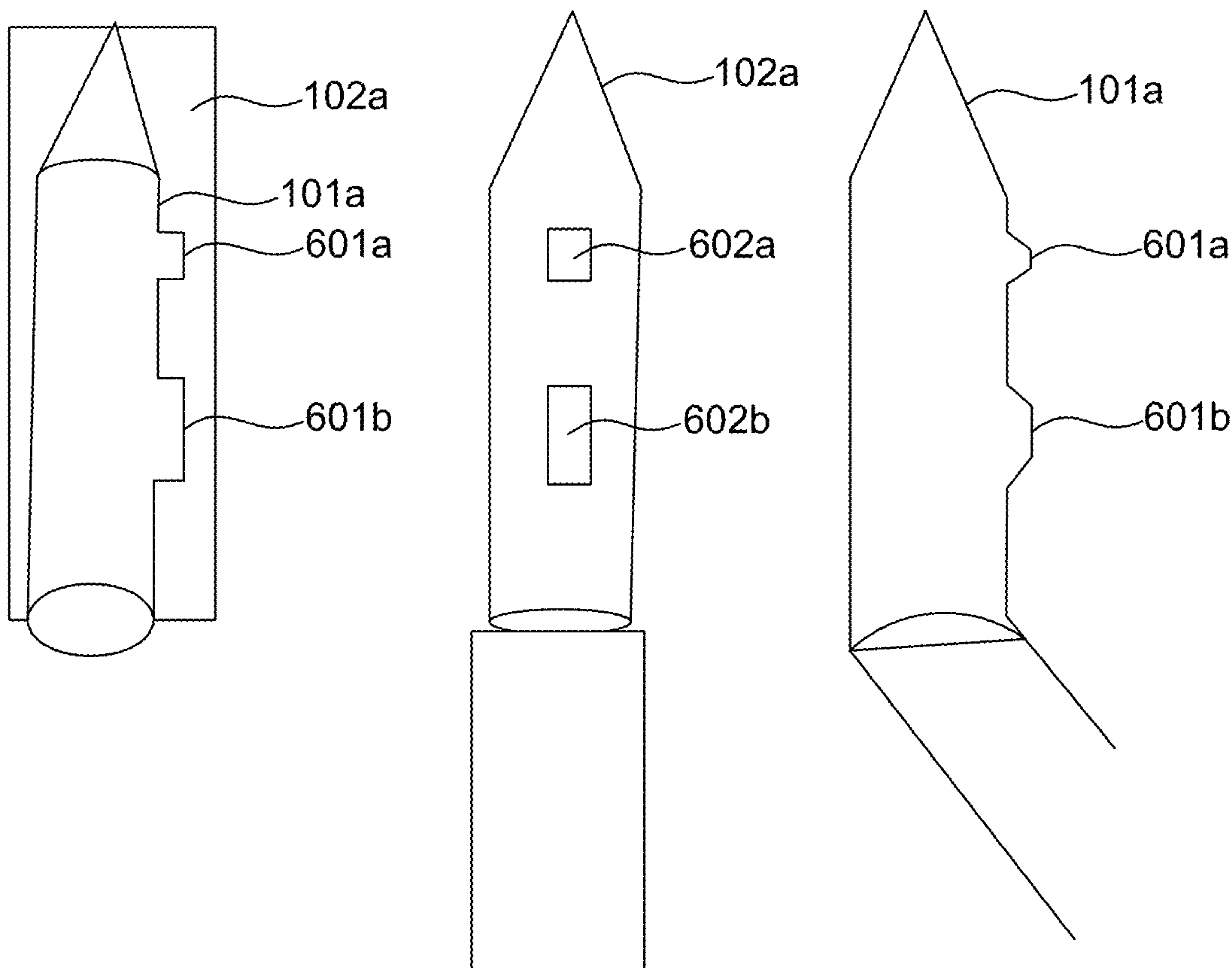


FIG. 6



**THEFT-PROOF TRAILER HITCH TONGUE**

## TECHNICAL FIELD

This application relates in general to an article of manufacture for providing towing devices, and more specifically, to an article of manufacture for providing a theft-proof trailer hitch tongue.

## BACKGROUND

Utility and/or heavy equipment trailers that are left unattended, for whatever reason, are very susceptible to theft, even if they have padlocks on the hitch ball or tow bar. Basically, anyone with a proper vehicle and hitch, can sever the padlock and steal any trailer. Trailers loaded with dozers, excavators, tractors, 4-wheelers, boats, or many other expensive items, along with smaller utility trailers for personal use are stolen every day. Once stolen, many are modified or altered, and most are taken out of this country into Mexico, never to be found again.

Therefore, a need exists for an article of manufacture for providing a theft-proof trailer hitch tongue. The present invention attempts to address the limitations and deficiencies in prior solutions according to the principles and example embodiments disclosed herein.

## SUMMARY

In accordance with the present invention, the above and other problems are solved by providing an article of manufacture for providing a theft-proof trailer hitch tongue according to the principles and example embodiments disclosed herein.

In one embodiment, the present invention is an article of manufacture for providing a theft-proof trailer hitch tongue. The trailer hitch tongue has two or more mating receivers coupled to a trailer each of the two or more mating receivers having a plurality of locking notches about an inside surface of each mating receiver in a specific orientation, two or more removable arms for engaging the two or more mating receiver, each of the removable arms having a hitch tongue end and a connecting end and together form a split tongue of the trailer hitch, a plurality of locking pegs arranged on each of the two or more removable arms, the plurality of locking pegs being configured to simultaneously engage the plurality of locking notches when the hitch tongue end of the removable arms are inserted in the corresponding mating receiver, and locking latches components on the connecting end of each of the removable arms, the locking latches couple together after the hitch tongue end of the removable arms are inserted in the corresponding mating receiver.

In another aspect of the present invention, each of the removable arms rotate within the corresponding mating receiver after the hitch tongue end of the removable arms are inserted in the corresponding mating receiver permitting the locking notches and the locking pegs to engage each other simultaneously.

In another aspect of the present invention, the locking latches components on the connecting ends of the two or more removable arms engage each other when a latching component of the connecting end of a first removable arm is placed within a cradle on the connecting end of a second removable arm and a latch arm pivots about a hinge coupled to the first removable arm across the latching component within the cradle to align a latch pinhole in the latch arm to a upright peg coupled to second removable arm.

In another aspect of the present invention, a locking pin is inserted through the latch pinhole and a peg pinhole of the upright peg to secure the latch holding the connecting ends of the removable arms together.

In another aspect of the present invention, the connecting end of the removable arm having the cradle further comprises a trailer hitch for attachment to a towing vehicle.

In another aspect of the present invention, the two or more removable arms have a left removable arm member having a left trailer tongue for engaging a left receiver on the trailer and a left center tongue on an opposite end of the left removable arm member, a right removable arm member having a right trailer tongue for engaging a right receiver on the trailer and a right center tongue on an opposite end of the right removable arm member, and a center removable arm. The center removable arm has a center arm member having a trailer end and a receiving end, a left center arm receiver for accepting the left center tongue of the left removable arm after the left trailer tongue end engages the left receiver on the trailer, a right center arm receiver for accepting the right center tongue of the right removable arm after the right trailer tongue end engages the left receiver on the trailer, and a locking latch coupled to the center arm member by a latching hinge, the locking latch having a flange and a latch pinhole for engaging an upward peg with a peg pinhole coupled to the center arm member.

In another aspect of the present invention, a locking pin is inserted through the latch pinhole and a peg pinhole of the upright peg to secure the latch holding the tongue ends of the removable arms within their respective receivers.

In another aspect of the present invention, each of the removable arms comprises at least two locking pegs for engaging locking notches of their respective mating receivers.

In another aspect of the present invention, the locking pegs on each of the removable arms have a unique orientation.

In another aspect of the present invention, the center removable arm further comprises a trailer hitch for attachment to a towing vehicle.

The foregoing has outlined rather broadly the features and technical advantages of the present invention in order that the detailed description of the invention that follows may be better understood. Additional features and advantages of the invention will be described hereinafter that form the subject of the claims of the invention.

It should be appreciated by those skilled in the art that the conception and specific embodiment disclosed may be readily utilized as a basis for modifying or designing other structures for carrying out the same purposes of the present invention. It should also be realized by those skilled in the art that such equivalent constructions do not depart from the spirit and scope of the invention as set forth in the appended claims. The novel features that are believed to be characteristic of the invention, both as to its organization and method of operation, together with further objects and advantages will be better understood from the following description when considered in connection with the accompanying figures. It is to be expressly understood, however, that each of the figures is provided for the purpose of illustration and description only and is not intended as a definition of the limits of the present invention.

## BRIEF DESCRIPTION OF THE DRAWINGS

Referring now to the drawings in which like reference numbers represent corresponding parts throughout:



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FIG. 1 illustrates a top view an example embodiment of an article of manufacture providing a theft-proof trailer hitch tongue to the present invention.

FIG. 2 illustrates a top view an article of manufacture providing a theft-proof trailer hitch tongue in a closed position according to the present invention.

FIGS. 3a-b illustrate a top view another example embodiment of an article of manufacture providing a theft-proof trailer hitch tongue according to the present invention.

FIG. 4 illustrates a top view of a functional diagram of an article of manufacture providing a retro-fit theft-proof trailer hitch tongue attaching to a trailer tongue frame according to the present invention.

FIG. 5 illustrates a top view an example embodiment of an article of manufacture providing a theft-proof trailer hitch tongue having 3 arms or sections connected to a trailer according to the present invention.

FIG. 6 illustrates a set of theft-proof trailer tongues, arms, and receivers for locking arms according to the present invention.

## DETAILED DESCRIPTION

This application relates in general a system and method for providing towing devices, and more specifically, to an article of manufacture for providing a theft-proof trailer hitch tongue according to the present invention.

Various embodiments of the present invention will be described in detail with reference to the drawings, wherein like reference numerals represent like parts and assemblies throughout the several views. Reference to various embodiments does not limit the scope of the invention, which is limited only by the scope of the claims attached hereto. Additionally, any examples set forth in this specification are not intended to be limiting and merely set forth some of the many possible embodiments for the claimed invention.

In describing embodiments of the present invention, the following terminology will be used. The singular forms “a,” “an,” and “the” include plural referents unless the context clearly dictates otherwise. As used herein, a plurality of items, structural elements, compositional elements, and/or materials may be presented in a common list for convenience. However, these lists should be construed as though each member of the list is individually identified as a separate and unique member. Thus, no individual member of such list should be construed as a de facto equivalent of any other member of the same list solely based on their presentation in a common group without indications to the contrary. As used herein, the singular forms “a,” “an,” and “the” are intended to include the plural forms as well, unless the context clearly indicates otherwise.

It further will be understood that the terms “comprises,” “comprising,” “includes,” and “including” specify the presence of stated features, steps or components, but do not preclude the presence or addition of one or more other features, steps or components. It also should be noted that in some alternative implementations, the functions and acts noted may occur out of the order noted in the figures. For example, two figures shown in succession may in fact be executed substantially concurrently or may sometimes be executed in the reverse order, depending upon the functionality and acts involved.

The terms “individual,” and “user” refer to an entity, e.g., a human, using an article of manufacture for providing a theft-proof trailer hitch tongue associated with the invention. The term user herein refers to one or more users.

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The term “invention” or “present invention” refers to the invention being applied for via the patent application with the title “Theft-Proof Trailer Hitch Tongue.” Invention may be used interchangeably with tongue.

In general, the present disclosure relates an article of manufacture for providing a theft-proof trailer hitch tongue **100** according to the present invention. To better understand the present invention, FIG. 1 illustrates an example embodiment of an article of manufacture providing a theft-proof trailer hitch tongue **100** to the present invention. A trailer without a tongue and hitch ball would be very hard to steal. Therefore, a removable tongue **101a-b** would be the first step to making a trailer very hard to steal. Further, as one of the problems mentioned above, removing the tongue **101a-b** makes a trailer frame shorter once the tongue is removed, which saves space and can contribute to more elaborate space saving features described later.

A more detailed description of this particular theft proof specialized item is a removable trailer tongue **100** that has two or three connecting sections or arms that independently weigh considerably less than the tongue as a whole, further designed for easy removal from the trailer, easy storage (inside a vehicle trunk), and easy re-installing onto the trailer. The unique security or theft proof feature is that one or more of the tongue sections **101a-b** or arms have a special “Key-Locking” feature **601a-b**, **602a-b** (“key lock or key locking”) on one or more of the removable sections or arms **101a-b**. The tongue sections **101a-b** or arms with the key locking feature herein referred to as a (“theft-proof tongue”).

The removable sections or arms **101a-b** engage mating receivers **102a-b** that is attached to a frame **103** of the trailer **110**. When the removable sections or arms **101a-b** are inserted into the receivers **102a-b**, one or more locking pins **104** are inserted through a set of pin receivers **105a-b** through the removable sections or arms **101a-b** and mating receivers **102a-b**. This locking pin prevents the removable sections or arms **101a-b** from sliding out of the mating receivers **102a-b**. A pivot jack **106a** is coupled to the frame **103** of the trailer **110** to support the trailer when the tongues **101a-b** are removed. Operation of connecting the removable sections or arms **101a-b** to the trailer receivers **102a-b** is disclosed in detail with respect to FIG. 3 below.

FIG. 2 illustrates a functional diagram of a manufacturing process for making an article of manufacture providing a theft-proof trailer hitch tongue in a closed position according to the present invention. The key locking feature is a varying sequence of female notches **602a-b** shown in FIG. 6 that are inside the receiver **102a-b** that the section or arm **101a-b** is inserted into. These hidden female notches **602a-b** eliminate the duplication of the notch sequence. Examples of these various tongues are shown in detail in regard to FIG. 6. Since the sections or arms are separate from each other, and the overall weight of the whole tongue **200** is divided by the number of sections or arms **201-202**, each section is therefore light enough and maneuverable enough to remove, store, and reinstall with ease. A tongue jack **106b**, similar to the pivot jack **106a**, supports the trailer when the removable sections or arms **101a-b** are within the mating receivers **102a-b**. A first arm **201** has a latching end **205** that engages a cradle **206** to securely connect the arms **201-202** together. The latch **206** and cradle **207** are described in detail in reference to FIG. 3 below. The opposite ends of the arms **201-202** engage a pair of receivers **102a-b** as shown in FIG. 1.

FIGS. 3a-b illustrates another example embodiment of an article of manufacture providing a theft-proof trailer hitch tongue **300** according to the present invention. A two piece



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split tongue **301-302** is shown having a front portion **315** that would attach to a vehicle. A second, rear portion **331a-b** of the two piece split tongue **301-302** connects the front portion to a trailer **110**. A front portion **311a** of the left arm **301** of the two piece split tongue **301-302** couples to a cradle **314** after the rear portion **101a-b** as a pair of tongues **301-302** engage corresponding pair of receivers **102a-b** on the trailer **110**.

Electrical connections **321** to the trailer **110** electrically couple to a hitch connector **322a** on a cable **323**. A vehicle connector **322b** on an opposite end of the cable **323** connects to the vehicle. In most embodiments, the existing trailer **110** and/or the section of its tongue frame **103** is held up by the use of the pivot jack **106a**. Once the arms **301-302** are inserted into the receivers and secured by the pins **104**, and **301** and **302** are latched together in the cradle, the second jack **312** is then lowered and the first jack **106a** is retrieved up and pivoted back against the trailer frame **103**. Once the second jack **312** is set on the ground, it raises or lowers the entire tongue **400**, frame **103** and trailer **110** to a point where a ball receiver **402** can sit on the hitch ball to tow the trailer.

To install the theft-proof trailer hitch tongue **100** to a trailer **110**, the right arm **302** has its tongue **101b** inserted into its mating receiver **102b**. The right arm **302** is rotated within the receiver **102b** until the female notches **602a-b** capture the mating locking pegs **601a-b** on tongue **101b** at the end of the right arm **302**. The left arm **301** next has its tongue **101a** inserted into its mating receiver **102a**. The left arm **301**, if it has the locking feature too, is rotated within the receiver **102a** until the female notches **602a-b** capture the mating locking pegs **601a-b** on tongue **101a** at the end of the left arm **301**. If the left arm **301** does not have the locking feature, the procedure is the same except there are no female notches **602a-b** and no male pegs **601a-b** to line up. In either event, the front portion **311a** of the left arm **301** engages the cradle **314** on a front portion **311b** of the right arm **302**.

FIG. **3b** shows a front connecting end **311a** of the left arm **301** inserted into a notch **341** in the cradle **314**. The cradle **314** provides a notch **341** to capture the front portion **311a** of the left arm **301**. A latch **316** is attached to the front portion **311b** of the right arm **302** by a hinge **317** at one end of the latch **316**. The latch **316** may be locked into place using many known methods. In a preferred embodiment, the latch with a tension arm like a "Ratchet Load Binder" that is used to strap heavy loads, so that once you cross mid-point pulling it down, it secures itself until you release it by pulling it back up. The latch arm **316** to show, will have a flange with a pin hole **318** on the end of the latch arm **316** that will be lowered and aligned into an upright peg **319** with a pin hole, then pinned into place with a pin **320**.

The latch **316** has a flange with a pin hole **318**, that when closed, lines up with an upright peg with a pin hole **319** that is attached to **311b**, then is pinned in place with a pin **320**. With the latch **316** locked, and the pins **104** inserted into the receivers **102a-b**, the arms **301-302** cannot rotate to permit the arms from being removed, and further, as long as one section or arm **301-302** has the locking feature, the latch **316** prevents that particular section or arm **301-302** from being rotated upward to be removed by clearing the female notches **602a-b** and pegs **601a-b**. A locking loop **318** is located at an opposite end of the latch **316**. With the latch **316** locked, the arms **301-302** cannot rotate to permit the arms from being removed by the female notches **602a-b** and pegs **601a-b**.

FIG. **4** illustrates a functional diagram of an article of manufacture providing a retro-fit theft-proof trailer hitch tongue **400** attached to a trailer frame **103** tongue according

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to the present invention. With a two arm tongue **301-302**, configurations could be that the key locking side **311a** of the split tongue can be removed, and the remaining side, instead of being removed, can pivot or swivel against the trailer which would save space, or, both sides can be completely removed.

The key locking sections, or arms **101a-b** can be retro-fitted onto an existing trailer **110** at any point on its frame **103**, or can be fitted at any point in the existing trailer's tongue **303** by installing the receivers **102a-b** at whatever point is desired. Safety chain loops **401a-b** and a hitch ball **402** may be attached to a front portion **311b** of the right arm **302** to secure the theft-proof trailer hitch tongue **400** to a vehicle (not shown).

FIG. **5** illustrates an example embodiment of an article of manufacture providing a theft-proof trailer hitch tongue **500** connected to a trailer hitch according to the present invention. With a three arm tongue (two sides **501-502** and center **503**), configurations could be that all can be removed, or one or more, including the key locking side, can be removed with the remaining arm(s) or side(s) pivoting or swiveling against the trailer, which also saves space.

The left arm **501** has a trailer tongue **511** that engages a trailer receiver **521a** at a rear end of the left arm. A left center tongue **504a** engages a left center arm receiver **505a** on a vehicle end of the center arm **503**. A locking latch **507** with a flange with a latch pin hole **508**, connected to center arm **503** by a hinge **506**, is closed downward to line up with an upward peg with a peg pin hole **509** connected to **503**, both pinned together with a pin **510** to secure the left center tongue **504a** and the right center tongue **504b** and arms **501** and **502** to the center arm **503**.

Similarly, the right arm **502** has a trailer tongue **512** that engages a trailer receiver **521b** at a rear end of the right arm **502**. A right center tongue **504b** engages a right center arm receiver **505b** on a vehicle end of the center arm **503**. The latch **507** is closed down over the front of both arms, and is pinned **510** through the pinhole on the flange **508** of the latch **507** through the pinhole of the peg **509** connected to the center arm **503**.

As described above with reference to the two arm tongue of FIGS. **3-4**, the three arm tongue **500** is constructed by inserting the arm tongues **511-512** into the trailer receivers **521a-b** and rotating the arms **501-502** until the locking pins **536a-b** engage a set of locking notches **537a-b**. A center tongue **513** is inserted into a receiver **523** of the center arm **503** as the left center tongue **504a** and the right center tongue **504b** may be inserted into the left center arm receiver **505a** and the right center arm receiver **505b** on the center arm **503**. The latch **507** when pinned **510** into place secures the three arm tongue **500** together.

A vehicle electrical connector **532** allows the vehicle to provide electrical power and signals to the trailer **110** when a trailer electrical connector **535** connects to the trailer **110**. A tongue jack **533**, similar to a pivot jack **534**, supports the trailer **110** when the removable sections or arms **501-503** are within the mating receivers **521a-b**. The pivot jack **534** performs the same function of supporting the trailer **110** the removable sections or arms **501-503** are removed from the mating receivers **521a-b**.

FIG. **6** illustrates a set of theft-proof trailer hitch tongues **101a-b** according to the present invention. The tongue section or arm **101a-b** with the proper sequence of aligning male pegs **601a-b** is inserted into the receiver **102a-b** in the upright position, and once in place and lined up with the female notches **602a-b** inside the receiver **102a-b**, the section or arm **101a-b** is turned downward to the left or the



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right, depending on the side of the trailer **110**, so that the male pegs **601a-b** engage into the female notch openings **602a-b**, thus locking said section or arm **101a-b** in place, just like a regular key. A tongue **101a-b** may have different notch **602a-b** sequences for different trailers **110** so that the notched section **602a-b** of the receivers **102a-b** and corresponding arm **101a-b** cannot be used on a different trailer **110**. Any trailer **110** should be very hard to move or steal without a tongue and hitch towbar having matching patterns of pins and notches.

Even though particular combinations of features are recited in the present application, these combinations are not intended to limit the disclosure of the invention. In fact, many of these features may be combined in ways not specifically recited in this application. In other words, any of the features mentioned in this application may be included to this new invention in any combination or combinations to allow the functionality required for the desired operations.

No element, act, or instruction used in the present application should be construed as critical or essential to the invention unless explicitly described as such. Further, the phrase “based on” is intended to mean “based, at least in part, on” unless explicitly stated otherwise.

What is claimed is:

**1.** An article of manufacture for providing a theft-proof trailer hitch tongue, the trailer hitch tongue comprises:

two or more mating receivers coupled to a trailer each of the two or more mating receivers having a plurality of locking notches about an inside surface of each mating receiver in a specific orientation;

two or more removable arms for engaging the two or more mating receivers, each of the removable arms having a hitch tongue end and a connecting end and together form a split tongue of the trailer hitch;

a plurality of locking pegs arranged on each of the two or more removable arms, the plurality of locking pegs being configured to simultaneously engage the plurality of locking notches when the hitch tongue end of the removable arms are inserted in the corresponding mating receiver; and

locking latches components on the connecting end of each of the removable arms, the locking latches couple together after the hitch tongue end of the removable arms are inserted in the corresponding mating receiver; wherein each of the removable arms rotate within the corresponding mating receiver after the hitch tongue end of the removable arms are inserted in the corresponding mating receiver permitting the locking notches and the locking pegs to engage each other simultaneously.

**2.** The trailer hitch tongue according to claim **1**, wherein the locking latches components on the connecting ends of the two or more removable arms engage each other when a latching component of the connecting end of a first remov-

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able arm is placed within a cradle on the connecting end of a second removable arm and a latch arm pivots about a hinge coupled to the first removable arm across the latching component within the cradle to align a latch pinhole in the latch arm to a upright peg coupled to second removable arm.

**3.** The trailer hitch tongue according to claim **2**, wherein a locking pin is inserted through the latch pinhole and a peg pinhole of the upright peg to secure the latch holding the connecting ends of the removable arms together.

**4.** The trailer hitch tongue according to claim **3**, wherein the connecting end of the removable arm having the cradle further comprises a trailer hitch for attachment to a towing vehicle.

**5.** The trailer hitch tongue according to claim **1**, wherein the two or more removable arms comprise:

a left removable arm member having a left trailer tongue for engaging a left receiver on the trailer and a left center tongue on an opposite end of the left removable arm member;

a right removable arm member having a right trailer tongue for engaging a right receiver on the trailer and a right center tongue on an opposite end of the right removable arm member; and

a center removable arm, the center removable arm comprises:

a center arm member having a trailer end and a receiving end;

a left center arm receiver for accepting the left center tongue of the left removable arm after the left trailer tongue end engages the left receiver on the trailer;

a right center arm receiver for accepting the right center tongue of the right removable arm after the right trailer tongue end engages the left receiver on the trailer; and

a locking latch coupled to the center arm member by a latching hinge, the locking latch having a flange and a latch pinhole for engaging an upward peg with a peg pinhole coupled to the center arm member.

**6.** The trailer hitch tongue according to claim **5**, wherein a locking pin is inserted through the latch pinhole and a peg pinhole of the upright peg to secure the latch holding the tongue ends of the removable arms within their respective receivers.

**7.** The trailer hitch tongue according to claim **5**, wherein each of the removable arms comprises at least two locking pegs for engaging locking notches of their respective mating receivers.

**8.** The trailer hitch tongue according to claim **7**, wherein the locking pegs on each of the removable arms have a unique orientation.

**9.** The trailer hitch tongue according to claim **7**, wherein the center removable arm further comprises a trailer hitch for attachment to a towing vehicle.

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