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(54) **LUGGAGE**

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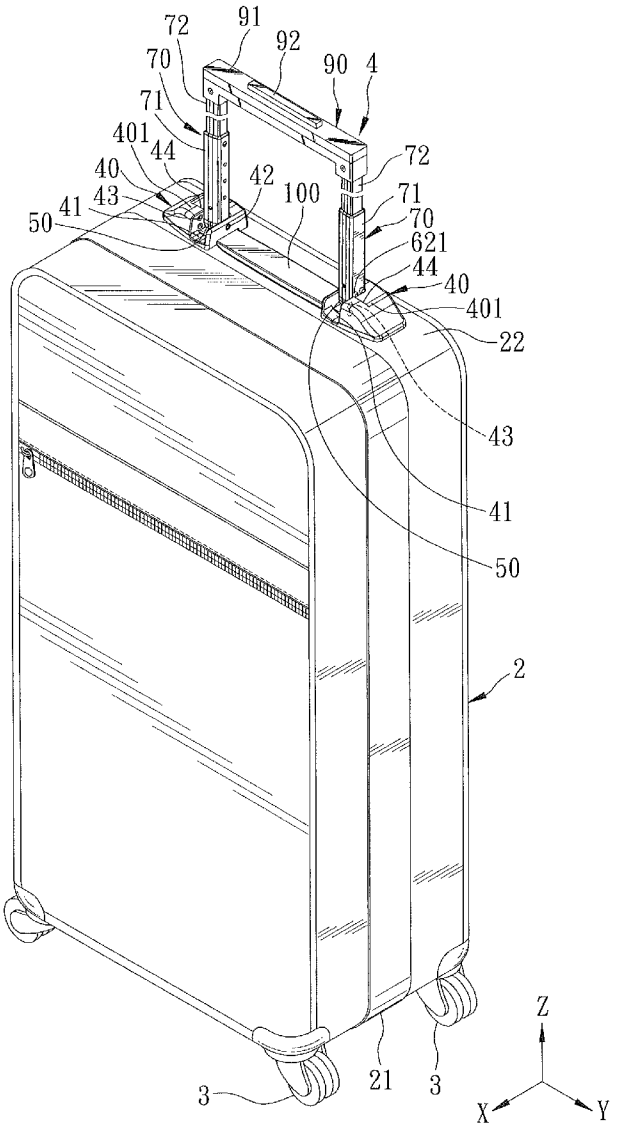
(57) **ABSTRACT**

A luggage includes a suitcase body, a plurality of wheels rotatably disposed under the suitcase body, and a pivotable telescopic pull handle unit disposed on the suitcase body. The pivotable telescopic pull handle unit includes a pair of fixation seats, a pair of pivoting seats, a pair of pivotable engaging units, a pair of telescopic rod units, a pair of telescopic engaging units, and an operating unit. Since rotation of said pivoting seats is driven by the pivotable engaging units, and since rotation of the telescopic rod units is driven by the telescopic engaging units, the luggage can be conveniently operated.



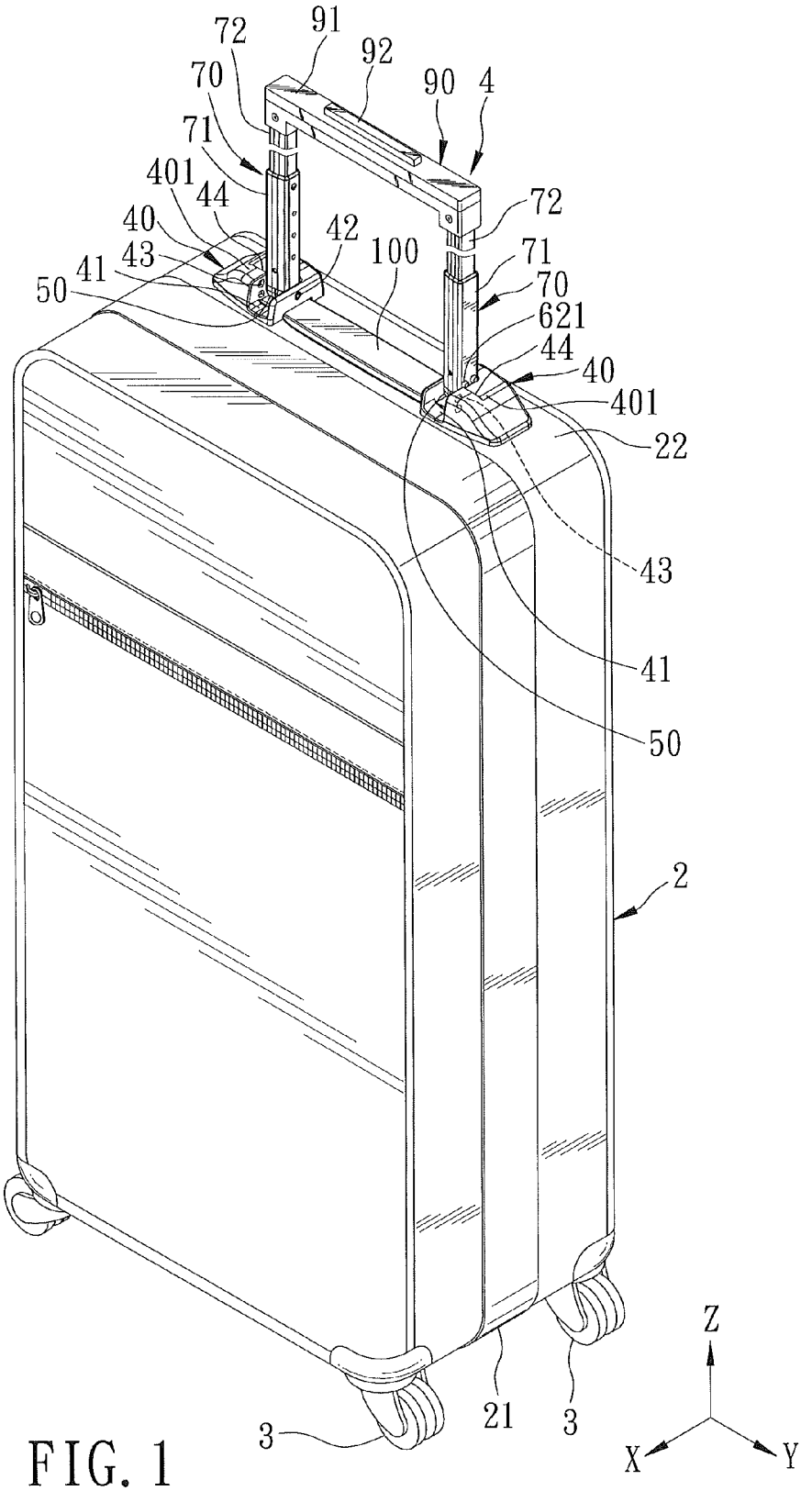

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FIG. 1

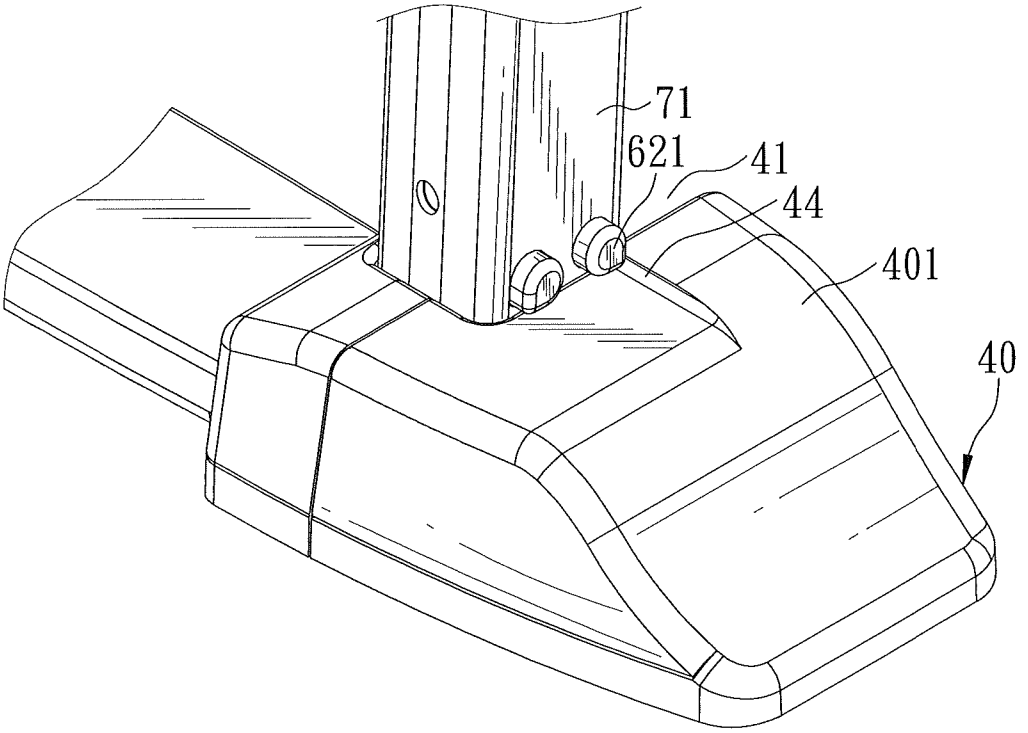

FIG. 2

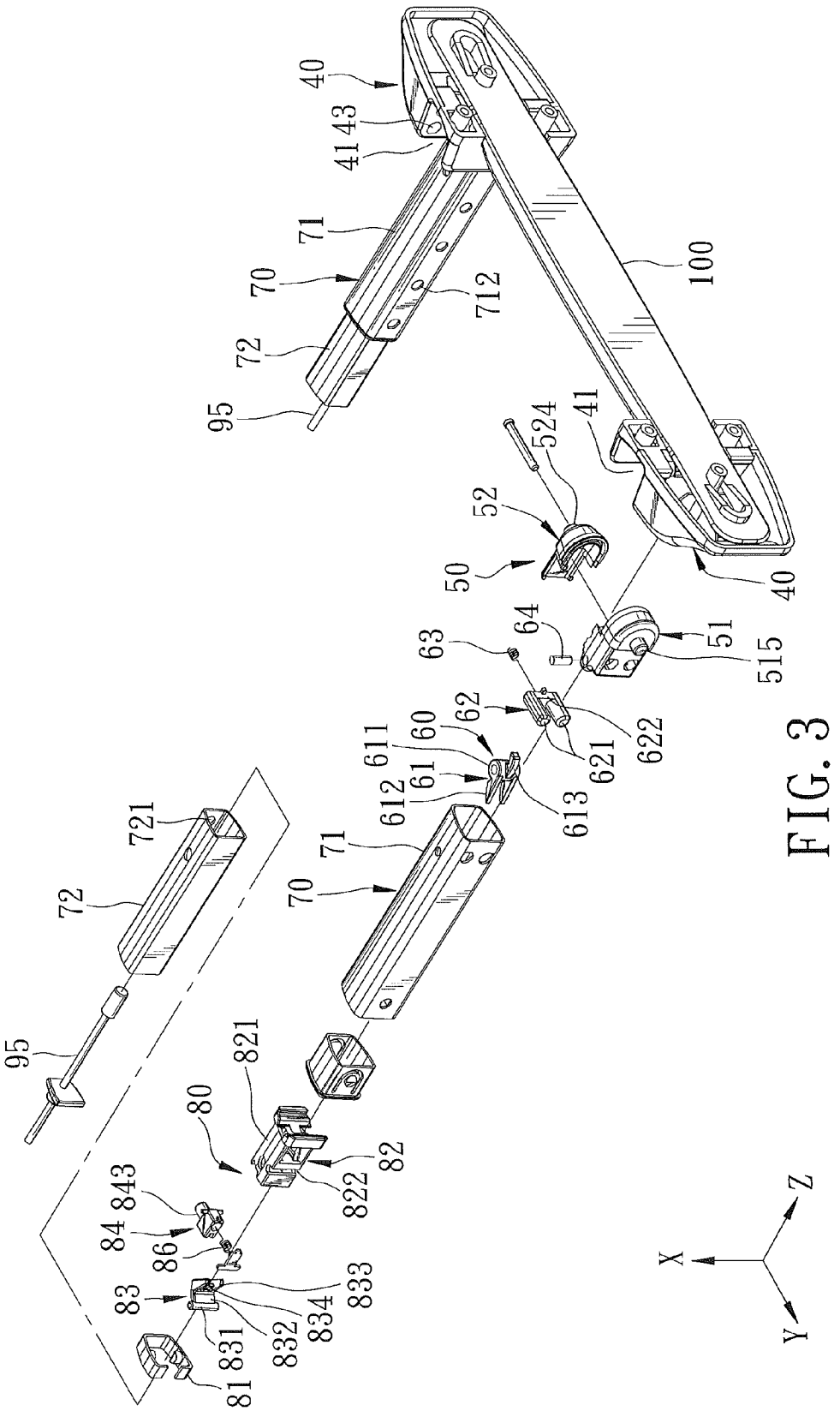
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FIG. 3

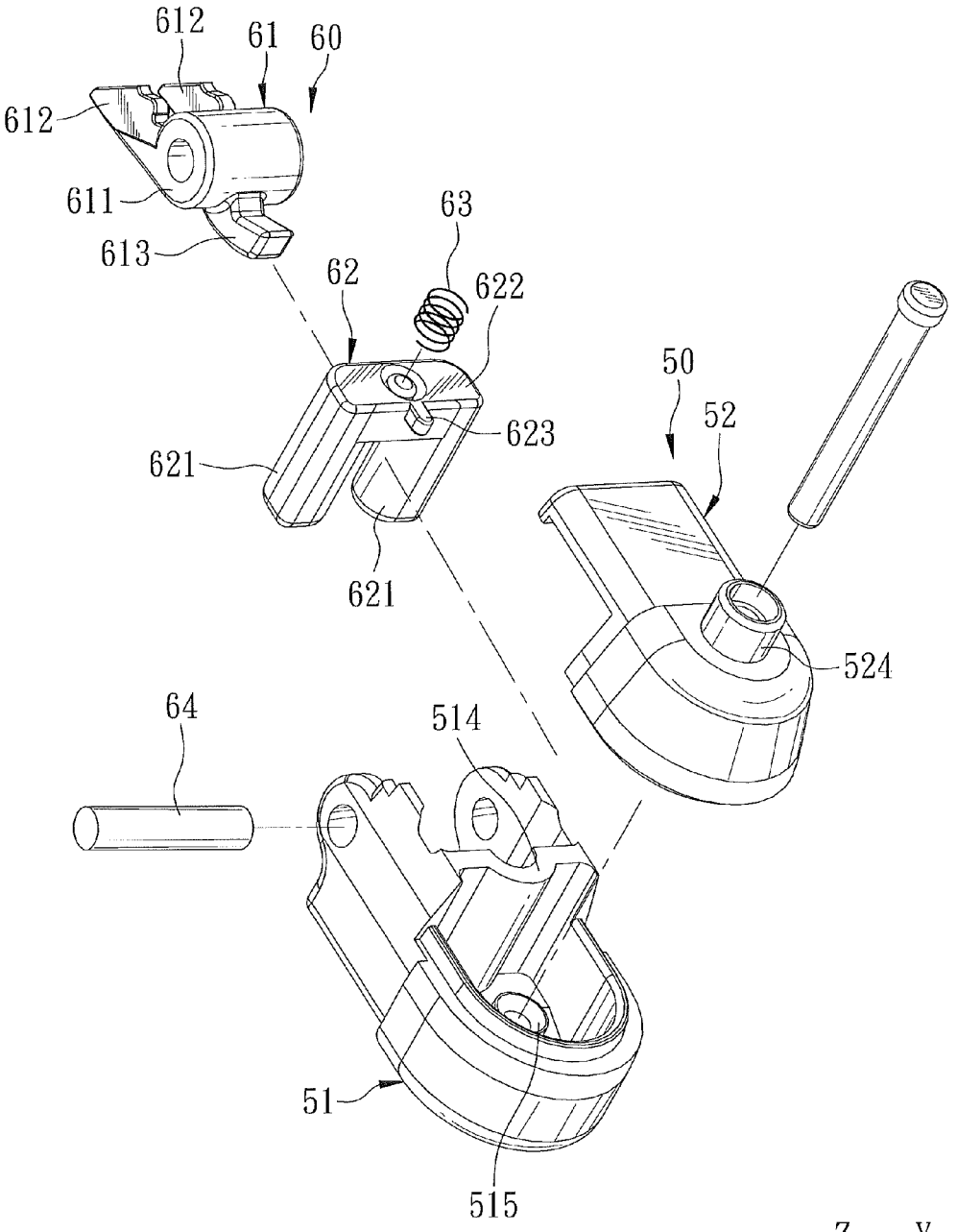
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FIG. 4

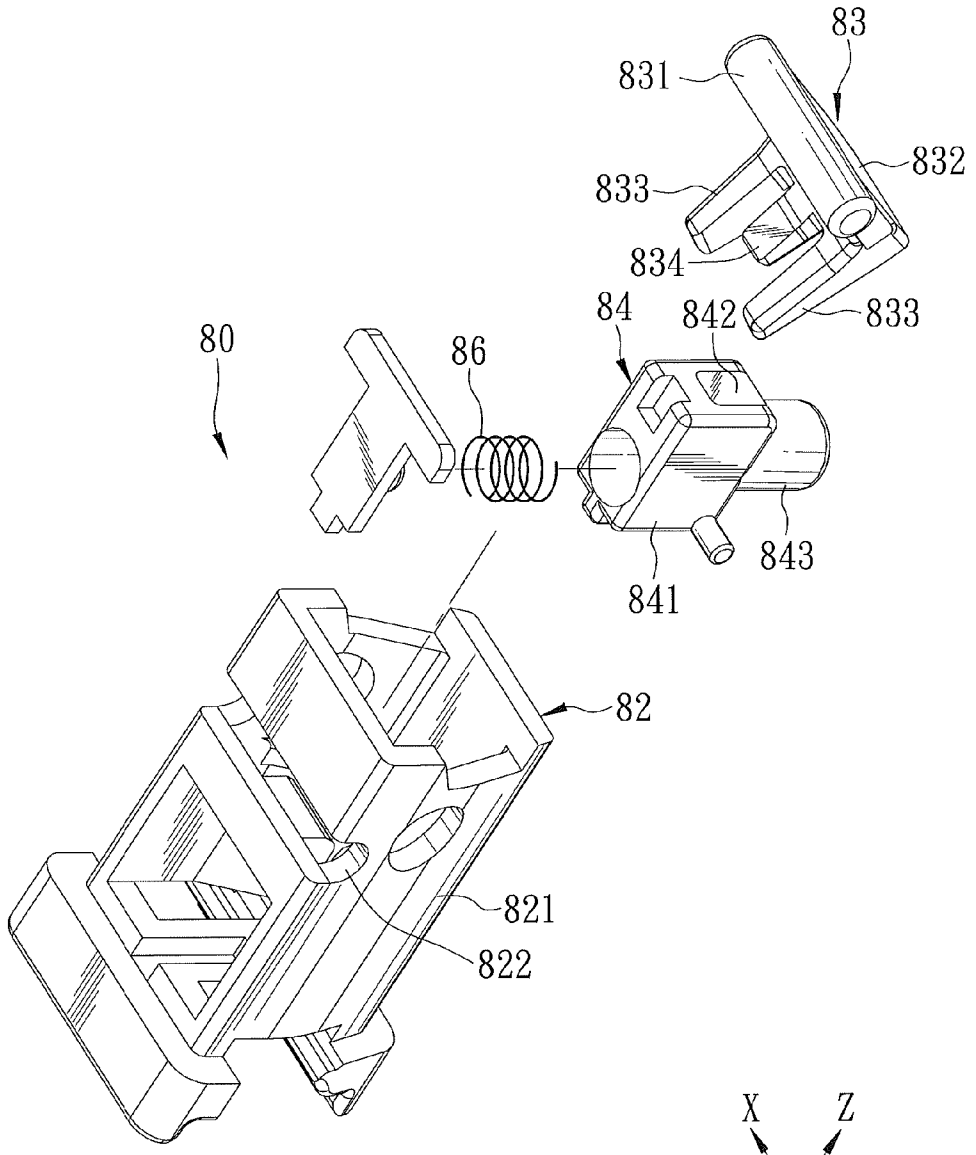

FIG. 5

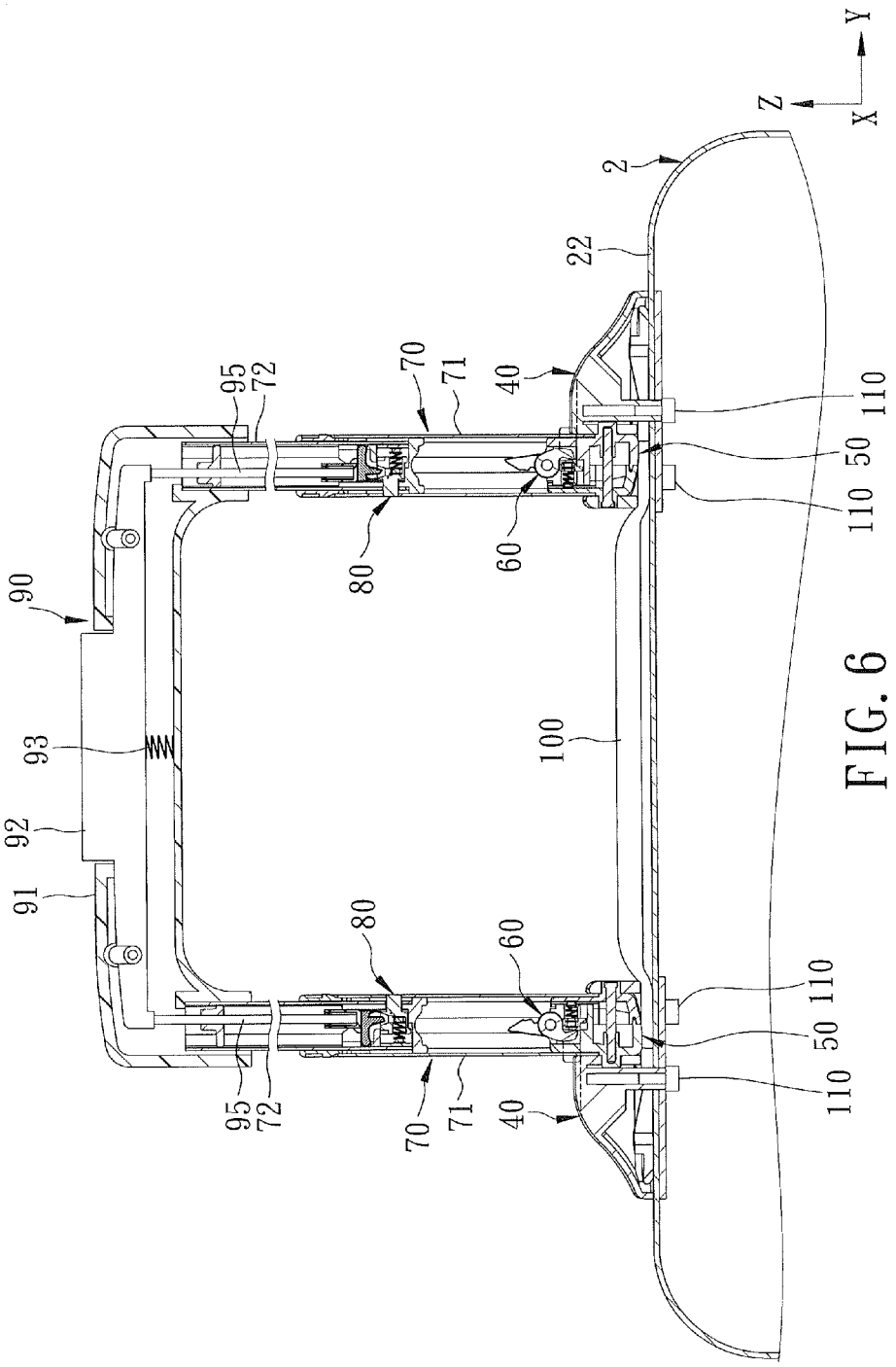
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FIG. 6

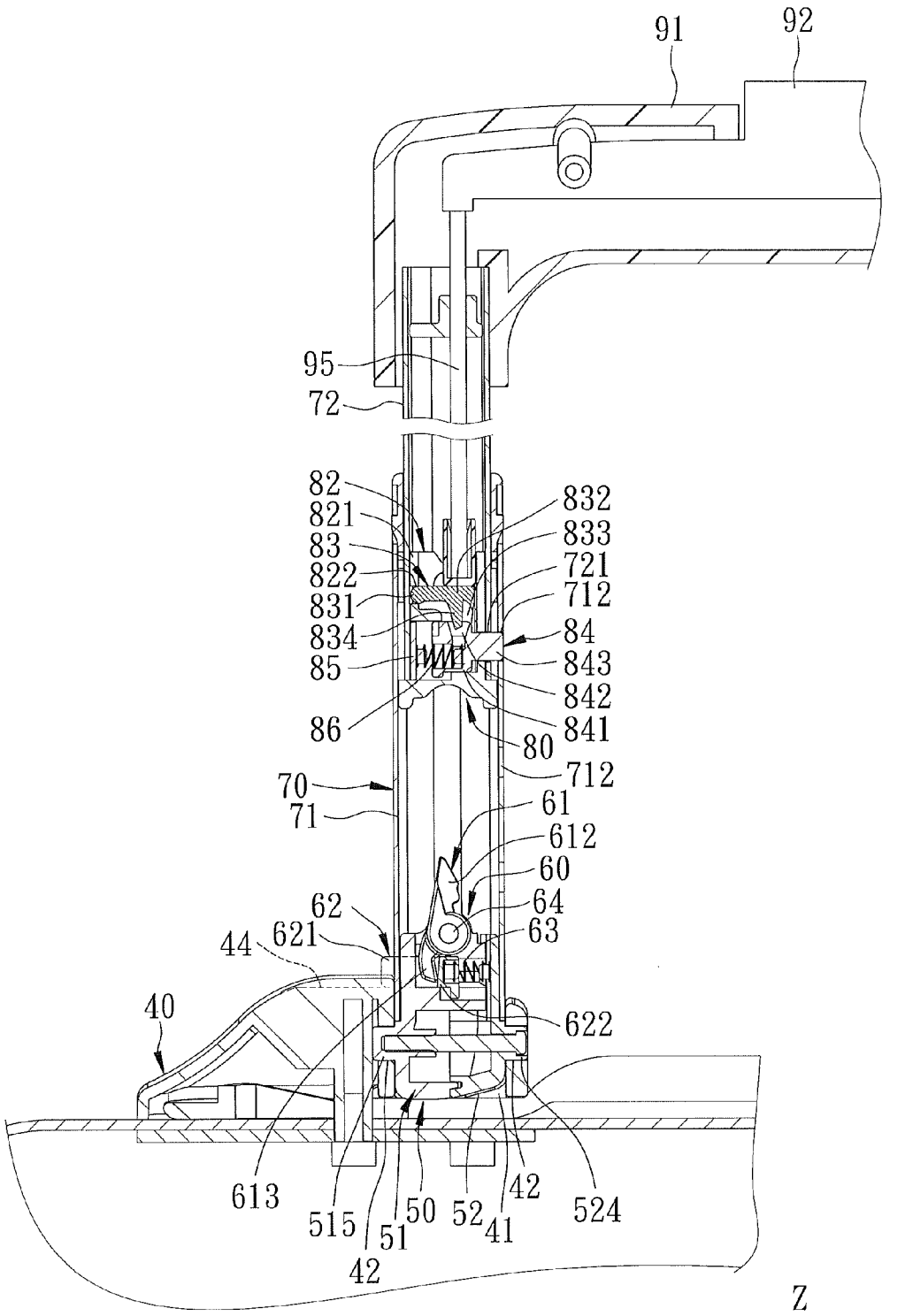
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FIG. 7

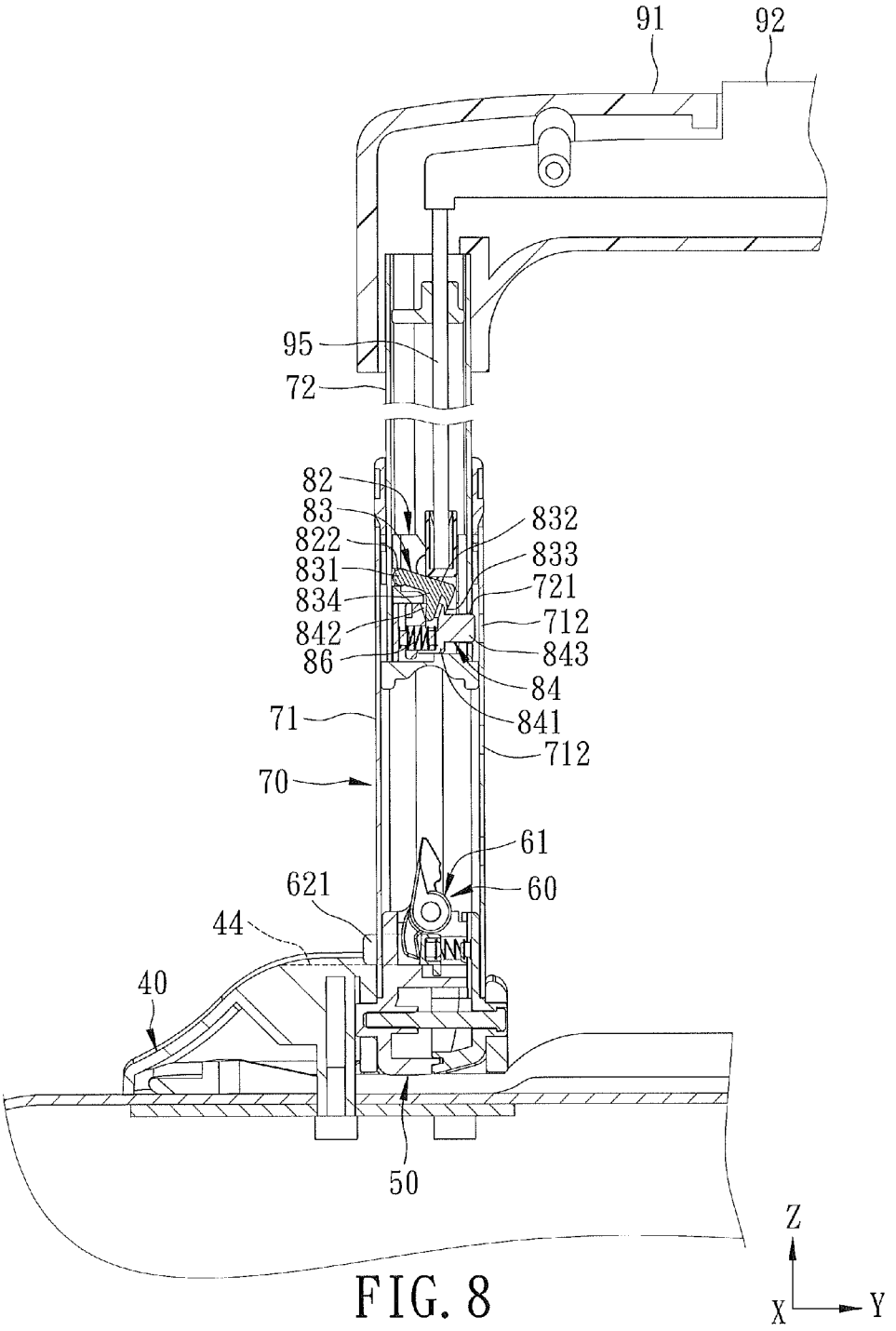
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FIG. 8

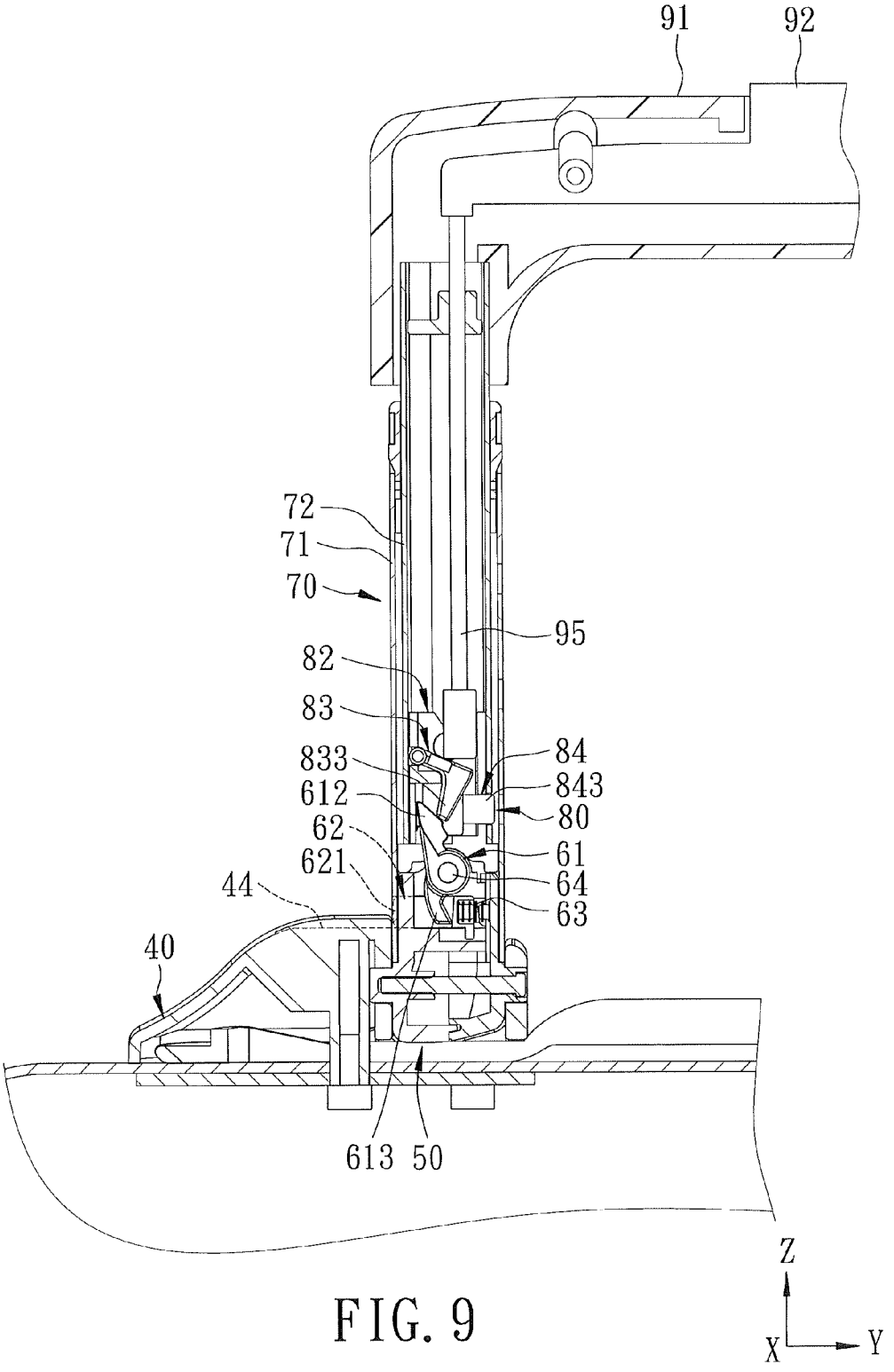
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FIG. 9

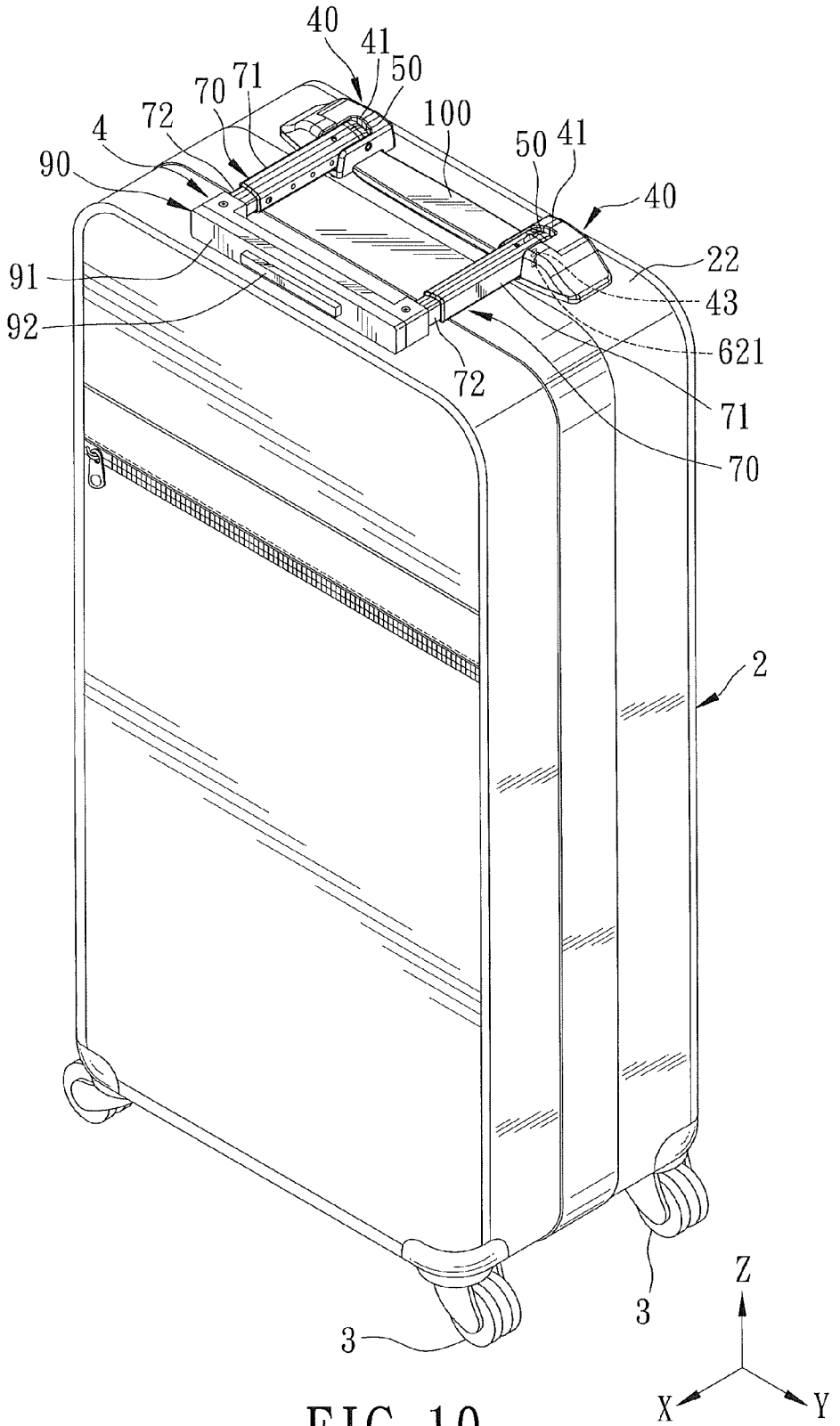

FIG. 10

LUGGAGE

CROSS-REFERENCE TO RELATED APPLICATION

[0001] This application claims priority of Taiwanese Patent Application No. 101214394, filed on Jul. 25, 2012, the disclosure of which is incorporated herein by reference.

BACKGROUND OF THE INVENTION

[0002] 1. Field of the Invention

[0003] The invention relates to a luggage, more particularly to a luggage with a pivotable and telescopic pull handle.

[0004] 2. Description of the Related Art

[0005] Chinese Utility Model Patent No. ZL 93202228.6 discloses a luggage including a suitcase body, an auxiliary pull handle that is pivotably disposed on the suitcase body, and a lift handle that is mounted on the suitcase body.

[0006] When the auxiliary pull handle is put in an upright position for use, two handle rods of the auxiliary pull handle have bottom portions that are stopped by a pair of top bevel blocks, respectively. When it is desired to move the auxiliary pull handle to a horizontal position for storage, a linking rod is manually pushed to drive the top bevel blocks to be lowered down. The handle rods are then able to be manually pivoted.

[0007] Although the luggage of the Chinese Utility Model Patent has the advantages of increased interior receiving space and decreased weight, it still has drawbacks, such as inconvenient operation of the auxiliary pull handle and poor positioning effect.

SUMMARY OF THE INVENTION

[0008] Therefore, the object of the present invention is to provide a luggage that can avoid the aforesaid problems encountered in the prior art.

[0009] According to this invention, a luggage includes:

[0010] a suitcase body that has a bottom portion and a top portion opposite to the bottom portion;

[0011] a plurality of wheels that are respectively and rotatably disposed under the bottom portion of the suitcase body; and

[0012] a pivotable telescopic pull handle unit that is disposed on the top portion of the suitcase body and that includes:

[0013] a pair of fixation seats that are respectively secured on the top portion of the suitcase body;

[0014] a pair of pivoting seats that are respectively and pivotably disposed in the fixation seats;

[0015] a pair of pivotable engaging units that are respectively disposed in the pivoting seats, each of the pivotable engaging units including a bottom driving member that is disposed pivotably in the corresponding one of the pivoting seats, a bottom engaging member that is disposed in the corresponding one of the pivoting seats and that is drivable by the bottom driving member so as to move between an engaged position and a disengaged position relative to the corresponding one of the fixation seats, and a bottom biasing member that is disposed between the bottom engaging member and the corresponding one of the pivoting seats for biasing the bottom engaging member toward the engaged position;

[0016] a pair of telescopic rod units that are respectively disposed on the pivoting seats, each of the telescopic rod units having an outer rod that is secured on the corresponding one of the pivoting seats, and an inner rod that extends through the outer rod and that is movable telescopically along the outer rod;

[0017] a pair of telescopic engaging units, each of which is disposed in the inner rod of a corresponding one of the telescopic rod units and has a carrier seat that is secured at a bottom portion of the inner rod, a top driving member that is pivotably disposed in the carrier seat, a top engaging member that is disposed in the carrier seat and that is movable by the top driving member between an engaged position and a disengaged position relative to the outer rod of the corresponding one of the telescopic rod units, and a top biasing member that is disposed between the top engaging member and the carrier seat for biasing the top engaging member toward the engaged position; and

[0018] an operating unit that includes an operating block and a pair of push rods, each of which extends through the inner rod of a corresponding one of the telescopic rod units so as to push the top driving member of a corresponding one of the telescopic engaging units and to be connected to the operating block.

[0019] When the pivotable telescopic pull handle unit is disposed in a pull-out state for use, the top engaging members are disposed in the engaged position and the bottom engaging members are disposed in the engaged position. When the operating block is pushed to drive rotation of the top engaging members through the push rods, the top engaging members are driven to move to the disengaged position by the top driving members. When the operating unit is pushed so that the telescopic engaging units are respectively driven to move toward the bottom portion of the suitcase body by the inner rods, the top driving members urge the bottom driving members to rotate to drive the bottom engaging members to move to the disengaged position, thereby allowing the pivoting seats to rotate and thus position the pivotable telescopic pull handle unit in a storage state.

BRIEF DESCRIPTION OF THE DRAWINGS

[0020] Other features and advantages of the present invention will become apparent in the following detailed description of the preferred embodiment with reference to the accompanying drawings, of which:

[0021] FIG. **1** is a perspective view illustrating the preferred embodiment of a luggage according to the present invention when a pivotable telescopic pull handle unit is positioned in a pull-out state for use;

[0022] FIG. **2** is a fragmentary perspective view of the preferred embodiment, illustrating how engaging blocks of a bottom engaging member are blocked by a stopper of a fixation seat when the pivotable telescopic pull handle unit is in the pull-out state for use;

[0023] FIG. **3** is a fragmentary exploded perspective view of the preferred embodiment, illustrating the construction of the pivotable telescopic pull handle unit;

[0024] FIG. **4** is a fragmentary exploded perspective view of the preferred embodiment, illustrating the construction of a pivoting seat and a pivotable engaging unit;

[0025] FIG. **5** is a fragmentary exploded perspective view of the preferred embodiment, illustrating the construction of a telescopic engaging unit;

[0026] FIG. **6** is a fragmentary sectional front view of the preferred embodiment shown in FIG. **1**;

[0027] FIG. **7** is a fragmentary enlarged sectional view of the preferred embodiment shown in FIG. **6**, illustrating the structural relationship among the pivotable engaging unit, the telescopic engaging unit and an operating unit when an operating block is in a released position, a top engaging member is in an engaged position and a bottom engaging member is in an engaged position;

[0028] FIG. **8** is a fragmentary enlarged sectional view similar to FIG. **7**, illustrating the structural relationship among the pivotable engaging unit, the telescopic engaging unit and the operating unit when the operating block is in a pushed position, the top engaging member is in a disengaged position, and the bottom engaging member is in an engaged position;

[0029] FIG. **9** is a fragmentary enlarged sectional view similar to FIG. **8**, illustrating the top engaging members in the disengaged position and the bottom engaging member in a disengaged position; and

[0030] FIG. **10** is a perspective view similar to FIG. **1**, illustrating the pivotable telescopic pull handle unit that is positioned in a storage state.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0031] As shown in FIGS. **1** to **3** and FIGS. **6** to **7**, the preferred embodiment of a luggage according to the present invention includes a suitcase body **2** having a bottom portion **21**, a top portion **22** opposite to the bottom portion **21**, a plurality of wheels **3**, and a pivotable telescopic pull handle unit **4**.

[0032] The wheels **3** are respectively and rotatably disposed under the bottom portion **21** of the suitcase body **2**.

[0033] The pivotable telescopic pull handle unit **4** is disposed on the top portion **22** of the suitcase body **2**, and includes a pair of fixation seats **40**, a pair of pivoting seats **50**, a pair of pivotable engaging units **60**, a pair of telescopic rod units **70**, a pair of telescopic engaging units **80**, an operating unit **90**, and a lift handle **100**.

[0034] The fixation seats **40** are respectively secured on the top portion **22** of the suitcase body **2** by a plurality of fasteners **110**. In this embodiment, the fasteners **110** are threadedly secured on the suitcase body **2** and are in the form of threaded bolts. Each fixation seat **40** is formed with a pivotally engaging groove **41**, a pair of pivoting holes **42**, a pair of engaging holes **43**, and a stopper **44**. The pivoting holes **42** and the engaging holes **43** respectively extend along a left-to-right direction (Y direction) of the suitcase body **2** and are respectively in spatial communication with the pivotally engaging groove **41**. The engaging holes **43** are disposed on a front end of the fixation seat **40** and are aligned with each other in a top-to-bottom direction (Z direction) of the suitcase body **2**. The stopper **44** is formed on a top surface **401** of the fixation seat **40** and is disposed at a junction between a front high portion that is located at the front end of the fixation seat **40** and a rear low portion of the top surface **401**.

[0035] As shown in FIGS. **1** and **3** to **7**, each of the pivoting seats **50** is disposed in the pivotally engaging groove **41** of a corresponding one of the fixation seats **40** and includes a first housing **51** and a second housing **52** that are correspondingly coupled with each other. The first housing **51** has a guide rail **514** and a first pivot stub **515**, both of which extend along the Y direction. The second housing **52** has a second pivot stub **524** that extends along the Y direction.

[0036] After the first housing **51** and the second housing **52** are correspondingly coupled together, the first pivot stub **515** and the second pivot stub **524** are respectively inserted into the pivoting holes **42** of the corresponding one of the fixation seats **40** so that the pivoting seat **50** can be rotated relative to the corresponding fixation seat **40**.

[0037] Each of the pivotable engaging units **60** is disposed in a corresponding one of the pivoting seats **50**. Each of the pivotable engaging units **60** includes a bottom driving member **61** that is disposed pivotably in the corresponding one of the pivoting seats **50**, a bottom engaging member **62** that is disposed in the corresponding one of the pivoting seats **50** and that is drivable by the bottom driving member **61** to move along the Y direction between an engaged position and a disengaged position relative to the corresponding one of the fixation seats **40**, and a bottom biasing member **63** that is disposed between the bottom engaging member **62** and the corresponding one of the pivoting seats **50** for biasing the bottom engaging member **62** toward the engaged position.

[0038] The bottom driving member **61** of each of the pivotable engaging units **60** includes a pivoting block **611** that is disposed on the first housing **51** of the corresponding one of the pivoting seats **50** and secured thereto by a pivot shaft **64**, and a pair of driven blocks **612** and a driving block **613**, which extend radially from the pivoting block **611** in opposite directions.

[0039] The bottom engaging member **62** of each of the pivotable engaging units **60** includes a pair of engaging blocks **621** that extend through the first housing **51** of the corresponding one of the pivoting seats **50** and that are movable between the engaged position and the disengaged position relative to the stopper **44** of the corresponding one of the fixation seats **40**, a connecting block **622** that connects the engaging blocks **621**, and a guide block **623** that is disposed on the connecting block **622** and that is matched with the guide rail **514**.

[0040] Each of the telescopic rod units **70** is disposed on a corresponding one of the pivoting seats **50** along the Z direction, and has an outer rod **71** that is secured on the corresponding one of the pivoting seats **50** and an inner rod **72** that extends through the outer rod **71** and that is movable telescopically along the Z direction.

[0041] Preferably, the outer rod **71** of each of the telescopic rod units **70** is formed with a plurality of adjusting holes **712** along the Z direction. The inner rod **72** of each of the telescopic rod units **70** is formed with a through hole **721** that is adapted to be registered with one of the adjusting holes **712** of the corresponding outer rod **71**.

[0042] Referring back to FIGS. **3**, **5**, **6**, and **7**, each of the telescopic engaging units **80** is disposed in the inner rod **72** of a corresponding one of the telescopic rod units **70** and has a carrier seat **82** that is secured at a bottom portion of the inner rod **72** by an engaging ring **81**, a top driving member **83** that is pivotably disposed in the carrier seat **82**, a top engaging member **84** that is disposed in the carrier seat **82** and that is movable by the top driving member **83** between an engaged position and a disengaged position relative to the outer rod **71** of the corresponding one of the telescopic rod units **70**, and a top biasing member **86** that is disposed between the top engaging member **84** and the carrier seat **82** for biasing the top engaging member **84** toward the engaged position.

[0043] The carrier seat **82** has a carrier frame **821** that is disposed in the inner rod **72** of the corresponding one of the telescopic rod units **70** and that is formed with a pivoting groove **822** that extends along a front-to-rear direction of the suitcase body **2** (X direction).

[0044] The top driving member **83** of each of the telescopic engaging units **80** includes a pivot shaft **831** that is pivotally disposed in the pivoting groove **822**, a compression plate **832** that is formed radially from the pivot shaft **831** and that is disposed in the carrier frame **821**, a pair of outer driving arms **833** that are bent and extend from the compression plate **832** along the Z direction, and an inner driving arm **834** that is disposed beneath the compression plate **832** and that extends therefrom so as to be separated from the outer driving arms **833**.

[0045] Each of the top engaging members **84** includes a member body **841** that is movable between the outer driving arms **833** of the top driving member **83** of the corresponding one of the telescopic engaging units **80** along the Y direction and that is formed with a receiving slot **842** for receiving the inner driving arm **834** of the top driving member **83** of the corresponding one of the telescopic engaging units **80**, and an engaging block **843** that extends along the Y direction and that is inserted form the member body **841** into the through hole **721** of the inner rod **72** and the adjusting hole **712** of the outer rod **71** of the corresponding one of the telescopic rod units **70**.

[0046] The operating unit **90** includes a grip **91** that is disposed between top portions of the inner rods **72** of the telescopic rod unit **70**, an operating block **92** that is disposed in the grip **91** and that is movable along the Z direction between a pushed position and a released position, a biasing member **93** that is disposed between the operating block **92** and the grip **91** for biasing the operating block **92** toward the released position, and a pair of push rods **95**, each of which extends from the operating block **92** through a corresponding one of the inner rods **72** and moves with the operating block **92** for pushing against the corresponding one of the top driving members **83**.

[0047] As shown in FIGS. **1** and **3**, the lift handle **100** is disposed between the bottom portions of the fixation seats **40** and is disposed above the top portion **22** of the suitcase body **2**.

[0048] Referring to FIGS. **7** to **9**, since the incorporated structures respectively formed by the pair of fixation seats **40**, the pair of pivoting seats **50**, the pair of pivotable engaging units **60**, the pair of the telescopic rod units **70**, and the telescopic engaging units **80** are symmetrically identical, only one of the incorporated structures is illustrated hereinafter.

[0049] In use, as shown in FIGS. **1**, **2**, **6**, and **7**, when the pivotable telescopic pull handle unit **4** is disposed in a pull-out state for use, the operating block **92** is in the released position and the engaging block **843** of the top engaging member **84** extends through the through hole **721** and one of the adjusting holes **712** so as to be disposed in the engaged position. Hence, the inner rod **72** cannot move relative to the outer rod **71** along the Z direction, and the engaging blocks **621** of the bottom engaging member **62** extend out of the pivoting seat **50** and the outer rod **71** and are stopped by the stopper **44** of the fixation seat **40** so as to be disposed in the engaged position, thereby preventing the pivoting seat **50** from rotating relative to the fixation seat **40**.

[0050] When the pivotable telescopic pull handle unit **4** is pivotably folded, as shown in FIGS. **5**, **7**, and **8**, the operating block **92** is pushed so that the operating block **92** is disposed in the pushed position, the push rod **95** is moved downwardly and pushes the compression plate **832** of the top driving member **83** such that the top driving member **83** is pivoted about the pivot shaft **831**, and the inner driving arm **834** urges the top engaging member **84** to move along the Y direction until the engaging block **843** is released from the adjusting hole **712** so as to be disposed in the disengaged position. At this moment, the inner rod **72** is movable along the Z direction relative to the outer rod **71**. As shown in FIGS. **3**, **5**, **8**, and **9**, the grip **91** is continually pushed to urge the inner rod **72** and the telescopic engaging unit **80** to move towards the bottom portion **21**. When the outer driving arms **833** of the top driving member **83** abut against and push against the driven blocks **612** of the bottom driving member **61**, respectively, the bottom driving member **61** is pivoted about the pivot shaft **64** and the driving block **613** urges the bottom engaging member **62** to move along the Y direction until the engaging blocks **621** are released from the stopper **44** so as to be disposed in the disengaged position. Thereafter, when a forward rotating force is exerted on the grip **91**, the pivoting seat **50** is rotated forward relative to the fixation seat **40**, as shown in FIG. **10**. When the pivotable telescopic pull handle unit **4** is rotated forward to be disposed on the top portion **22** of the suitcase body **2** and parallel to the X direction, and the engaging blocks **621** are automatically and respectively extended through the engaging holes **43** of the fixation seat **40**, the pivotable telescopic pull handle unit **4** is positioned in the storage state.

[0051] As shown in FIGS. **1** and **10**, if it is desired to pull out the pivotable telescopic pull handle unit **4** for use once again, first, the operating block **92** is pushed to release the engaging blocks **621** from the engaging holes **43** and then an upward rotating force is exerted on the grip **91**, thereby rotating the pivoting seat **50** upward relative to the fixation seat **40**. Then, as shown in FIG. **7**, the grip **91** is pulled out upward along the Z direction until the engaging block **843** automatically extends through the through hole **721** and one of the adjusting holes **712** so as to be disposed in the engaged position, and then the inner rod **72** is positioned. When the inner rod **72** is pulled out to be released from the outer rod **71** and to be positioned using the adjusting holes **712**, the overall height of the luggage ranges from 34 inches to 40 inches, which is the optimum height for a user to drag the luggage.

[0052] The abovementioned preferred embodiment is not restrictive. For example, the position of the pivotable telescopic pull handle unit **4** in the storage state can be changed. In an alternative arrangement, the fixation seat **40** may be designed to be disposed at a junction between the top portion **22** and the back portion of the suitcase body **2** in such a manner that the pivoting seat **50** is rotated backward relative to the fixation seat **40**. In this arrangement, the pivotable telescopic pull handle unit **4** is rotated backward to abut against the back portion of the suitcase body **2** so as to be positioned in the storage state.

[0053] In view of the foregoing, by virtue of the structural arrangement of the luggage of this invention, only one hand is needed for pulling or storing operation of the pivotable telescopic pull handle unit **4**. Hence, the luggage of this invention can be easily and conveniently operated. Additionally, when the inner rods **72** are pulled out or extended through the outer rods **71**, respectively, the positioning effect of each inner rod **72** can be enhanced by the corresponding one of the engaging blocks **843** of the top engaging member **84** that is able to

automatically extend through the corresponding through hole **721** and one of the corresponding adjusting holes **712**. The positioning effect of the pivotable telescopic pull handle unit **4** in the storage state can be enhanced by the engaging blocks **621** of the bottom engaging member **62** that are able to extend through the corresponding engaging holes **43**, respectively. Finally, since the lift handle **100** is also secured on the top portion **22** of the suitcase body **2** through the fixation seats **40**, the time and cost for installing the lift handle **100** can be reduced.

[0054] While the present invention has been described in connection with what is considered the most practical and preferred embodiment, it is understood that this invention is not limited to the disclosed embodiment but is intended to cover various arrangements included within the spirit and scope of the broadest interpretation so as to encompass all such modifications and equivalent arrangements.

What is claimed is:

1. A luggage comprising:

a suitcase body that has a bottom portion and a top portion opposite to said bottom portion;

a plurality of wheels that are respectively and rotatably disposed under said bottom portion of said suitcase body; and

a pivotable telescopic pull handle unit that is disposed on said top portion of said suitcase body and that includes:

a pair of fixation seats that are respectively secured on said top portion of said suitcase body;

a pair of pivoting seats that are respectively and pivotably disposed in said fixation seats;

a pair of pivotable engaging units that are respectively disposed in said pivoting seats, each of said pivotable engaging units including a bottom driving member that is disposed pivotably in the corresponding one of said pivoting seats, a bottom engaging member that is disposed in the corresponding one of said pivoting seats and that is drivable by said bottom driving member so as to move between an engaged position and a disengaged position relative to the corresponding one of said fixation seats, and a bottom biasing member that is disposed between said bottom engaging member and the corresponding one of said pivoting seats for biasing said bottom engaging member toward the engaged position;

a pair of telescopic rod units that are respectively disposed on said pivoting seats, each of said telescopic rod units having an outer rod that is secured on the corresponding one of said pivoting seats, and an inner rod that extends through said outer rod and that is movable telescopically along said outer rod;

a pair of telescopic engaging units, each of which is disposed in said inner rod of a corresponding one of said telescopic rod units and has a carrier seat that is secured at a bottom portion of said inner rod, a top driving member that is pivotably disposed in said carrier seat, a top engaging member that is disposed in said carrier seat and that is movable by said top driving member between an engaged position and a disengaged position relative to said outer rod of the corresponding one of the telescopic rod units, and a top biasing member that is disposed between said top engaging member and said carrier seat for biasing said top engaging member toward the engaged position; and

an operating unit that includes an operating block and a pair of push rods, each of which extends through said inner rod of a corresponding one of said telescopic rod units so as to push said top driving member of a corresponding one of said telescopic engaging units and to be connected to said operating block,

wherein, when said pivotable telescopic pull handle unit is disposed in a pull-out state for use, said top engaging members are disposed in the engaged position and said bottom engaging members are disposed in the engaged position; when said operating block is pushed to drive rotation of said top engaging members through said push rods, said top engaging members are driven to move to the disengaged position by said top driving members; and when said operating unit is pushed so that said telescopic engaging units are respectively driven to move toward said bottom portion of said suitcase body by said inner rods, said top driving members urge said bottom driving members to rotate to drive said bottom engaging members to move to the disengaged position, thereby allowing said pivoting seats to rotate and thus position said pivotable telescopic pull handle unit in a storage state.

2. The luggage of claim **1**, wherein said bottom driving member of each of said pivotable engaging units includes a pivoting block that is disposed on the corresponding one of said pivoting seats through a pivot shaft, and a pair of driven blocks and a driving block that extend radially from said pivoting block in opposite directions, said bottom engaging member of each of the pivotable engaging units including a pair of engaging blocks that extend through the corresponding one of said pivoting seats and that are movable between the engaged position and the disengaged position relative to the corresponding one of said fixation seats, and a connecting block that connects said engaging blocks and that is drivable by said driving block.

3. The luggage of claim **2**, wherein each of said fixation seats further includes a stopper that is formed on a top surface thereof, said engaging blocks of said bottom engaging members being respectively blocked by said stoppers when said pivotable telescopic pull hand unit is in the pull-out state for use.

4. The luggage of claim **3**, wherein said stopper of each of said fixation seats is disposed at a junction between a front high portion and a rear low portion of said top surface.

5. The luggage of claim **3**, wherein each of said fixation seats is formed with a pair of engaging holes, said engaging blocks of the corresponding one of said bottom engaging members respectively extending through said engaging holes when said pivotable telescopic pull handle unit is positioned in the storage state.

6. The luggage of claim **5**, wherein each of said pivoting seats includes a first housing and a second housing that are correspondingly coupled with each other, said first housing having a guide rail, and each of said bottom engaging members further including a guide block that is disposed on said connecting block of the corresponding one of said pivotable engaging units and that is matched with said guide rail of the corresponding one of said pivoting seats.

7. The luggage of claim **1**, wherein said carrier seat of each of said telescopic engaging units includes a carrier frame that is disposed in said inner rod of the corresponding one of said telescopic rod units and a pivoting groove disposed in said carrier frame, said top driving member of each of said tele-

scopic engaging units including a pivot shaft that is pivotally disposed in said pivoting groove, a compression plate that is formed radially from said pivot shaft and that is disposed in said carrier frame, a pair of outer driving arms that are bent and extend from said compression plate so as to drive the corresponding one of said bottom driving members, and an inner driving arm that is disposed beneath said compression plate and extends therefrom so as to drive the corresponding one of said top driving engaging members.

8. The luggage of claim **7**, wherein each of said top engaging members includes a member body that is movable between said outer driving arms of said top driving member of the corresponding one of said telescopic engaging units, a receiving slot for receiving said inner driving arm of said top driving member of the corresponding one of said telescopic engaging units, and an engaging block that extends from said member body and that is inserted between said inner rod and said outer rod of the corresponding one of said telescopic rod units.

9. The luggage of claim **1**, wherein said luggage has an overall height that ranges from 34 inches to 40 inches when said pivotable telescopic pull handle unit is positioned in the pull-out state.

10. The luggage of claim **1**, further comprising a lift handle that is mounted between said fixation seats.

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