O. W. WILDE.

COMBINED WHIP, REIN, AND LAP ROBE LOCK FOR VEHICLES.

APPLICATION FILED APR. 22, 1909.

944,530.

Patented Dec. 28, 1909.

2 SHEETS—SHEET 1.

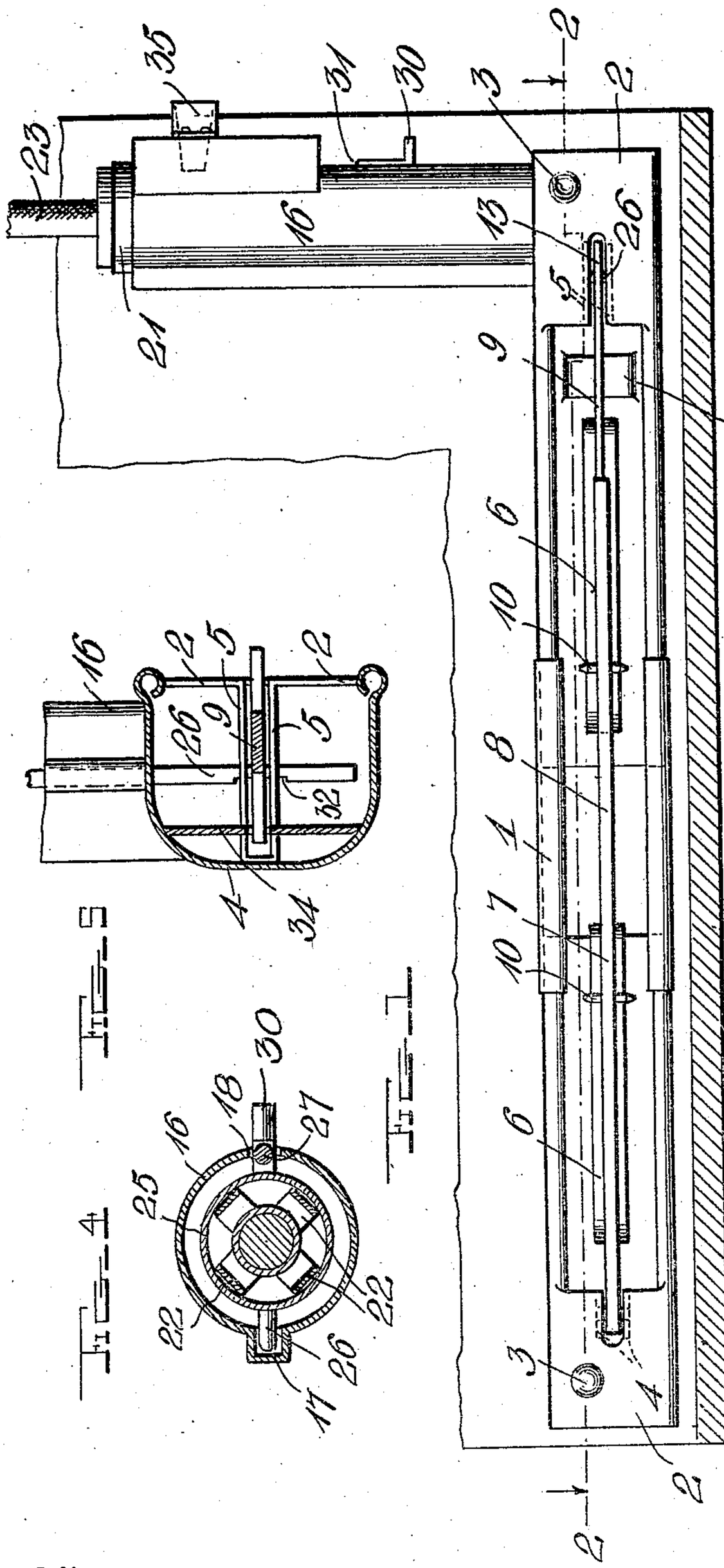


FIG. 1

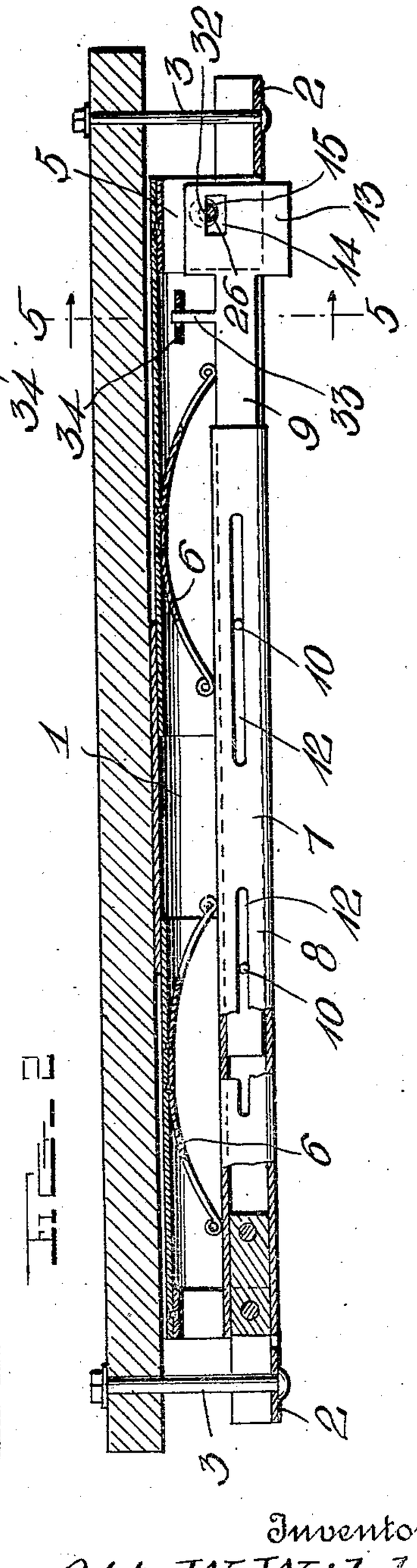


FIG. 2

FIG. 5

FIG. 4

Witnesses

C. H. Griesbauer.

Inventor

Otto W. Wilde

by H. Bliss & Co.

Attorneys

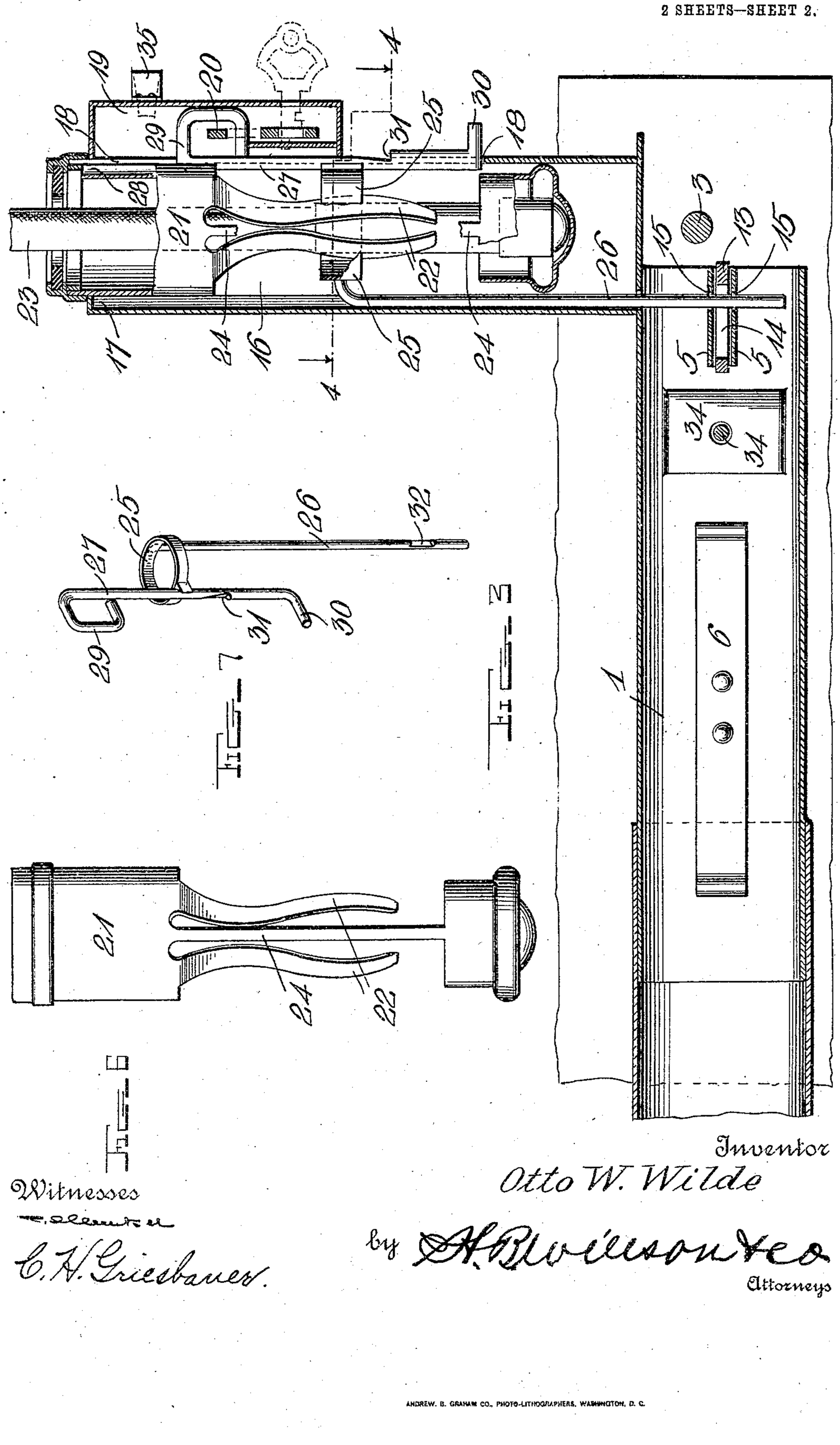
O. W. WILDE.

COMBINED WHIP, REIN, AND LAP ROBE LOCK FOR VEHICLES.

APPLICATION FILED APR. 22, 1909.

944,530. Patented Dec. 28, 1909.

2 SHEETS—SHEET 2.



Witnesses

C. H. Griebauer.

Inventor

Otto W. Wilde

by A. Bloomson & Co.

Attorneys

UNITED STATES PATENT OFFICE.

OTTO W. WILDE, OF WICHITA, KANSAS.

COMBINED WHIP, REIN, AND LAP-ROBE LOCK FOR VEHICLES.

944,530. Specification of Letters Patent. Patented Dec. 28, 1909.

Application filed April 22, 1909. Serial No. 491,569.

To all whom it may concern:

Be it known that I, OTTO W. WILDE, a citizen of the United States, residing at Wichita, in the county of Sedgwick and State of Kansas, have invented certain new and useful Improvements in a Combined Whip, Rein, and Lap-Robe Lock for Vehicles; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in combined lap robe, whip and rein holding and locking device for carriages, wagons, and other vehicles.

The object of the invention is to provide a device of this character having means whereby the lap robe, whip and lines may be securely locked against removal.

A further object is to provide means whereby the whip locking device may be released to permit the removal of the whip without releasing the robe or line holding devices.

With the foregoing and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a side view of the device attached to the dash board of a vehicle; Fig. 2 is a horizontal sectional view on the line 2—2 of Fig 1; Fig. 3 is a vertical longitudinal sectional view showing the parts in locked position; Fig. 4 is a horizontal sectional view on the line 4—4 of Fig. 3; Fig. 5 is a vertical cross sectional view on the line 5—5 of Fig. 2; Fig. 6 is a side view of the whip socket and locking mechanism removed from its casing and showing the parts in released position; Fig. 7 is a detail perspective view of the whip clamping ring and the locking rods carried thereby.

Referring more particularly to the drawings, 1 denotes a base which is in the form of a hollow substantially semi-cylindrical casing open at its front side, as shown. The base or casing 1 is formed in longitudinally adjustable telescoping sections whereby the same may be lengthened or shortened to fit vehicles of different widths. The outer side of the casing at each end is provided with an apertured attaching plate 2 through which fastening bolts 3 are inserted and engaged with the dash board or other suitable part of the vehicle. In one end of the casing is arranged a bearing bracket 4, while in the opposite end is arranged a locking bracket 5. Secured to the inner sides of the casing are horizontally disposed bowed springs 6, the purpose of which will be hereinafter described.

Pivotally mounted at one end in the bearing bracket 4 is a robe holding bar 7, said bar being formed in longitudinally adjustable telescoping sections 8 and 9. The section 9 of the bar is slidably engaged with the tubular section 8 and projecting from the opposite sides of said section 9 are robe engaging pins 10 which project and work through the slots 12 formed in the tubular section 8 of the holding bar, as shown. The pins 10 also serve to limit the outward movement of the section 9 of the bar and thereby prevent said sections from being pulled entirely apart. On the free end of the section 9 of the robe holding bar is formed a locking head 13 provided with a locking slot 14. When the bar is in an operative position, to secure the lap robe, the head 13 is engaged with the locking bracket 5 in the end of the casing 1 and the slot 14 is brought into alinement with the locking holes 15 formed in the upper and lower sides of the bracket 5. When the head 13 has thus been engaged with the locking bracket, it is secured by a suitable locking mechanism thereby holding the lap robe securing bar in operative position.

On the end of the casing adjacent to the locking end of the lap robe holding bar is a whip socket casing 16 which projects upwardly at right angles from the base or casing 1 and communicates therewith at its lower end. In one side of the casing 16 is formed a guide groove or channel 17 while in its opposite side is a vertically disposed slot 18. On the outer side of the casing 16 over the slot 18 is arranged a lock casing 19 provided with a suitable key operated locking mechanism, the bolt 20 of which is adapted to secure the fastening mechanism hereinafter described.

In the whip socket casing 16 is arranged a whip socket 21, the lower portion of which has formed therein a series of spring whip engaging fingers 22, the lower ends of which are adapted to be brought into engagement with the butt end of the whip 23, when in-

serted into the socket. The upper portion of the socket 21 is connected to the lower portion by connecting bars 24. Slidably engaged with the spring fingers 22 is a clamping ring or band 25, to one side of which is secured a downwardly projecting fastening rod 26, which, when in operative position, is inserted through the slot 14 in the head 13 of the robe holding bar and through the alined locking holes 15 in the bracket 5, thereby fastening the robe holding bar in an operative position to secure the lap robe. On the opposite side of the clamping ring is secured a combined locking and operating rod or lever 27, said rod projecting above and below the ring, as shown. The upper end of the rod is slidably engaged with a guide groove 28 in the side of the upper portion of the whip socket 21 and on said upper end is formed a right angular laterally projecting locking eye or loop 29 which projects and works through the slot 18 in the side of the socket casing 16 and extends into the lock casing 19 in position to be engaged by the bolt 20 of the locking mechanism. On the lower end of the rod 27 is formed a laterally projecting finger 30 which also extends through the slot 18 in the casing 16 and is adapted to be grasped to move the locking lever and the parts connected thereto to an operative or inoperative position. In the outer side of the lower portion of the locking rod 27 is formed a notch or shoulder 31 which is adapted to engage the lower end of the lock casing when pushed upwardly thereby preventing the complete upward movement of the rod until the latter is forced inwardly at its lower end to disengage the notch 31 from the bottom of the lock casing, after which the rod 27 and the parts attached thereto may be raised to their full extent, which movement will disengage the fastening rod 26 from the lap robe holding bar.

To lock the parts in their operative position, the robe holding bar is engaged with the robe when the lower portion of the latter is doubled over the front side of the bar which is forced inwardly against the tension of the springs 6 until the slot 14 in the head 13 is in alinement with the holes 15 in the locking bracket, at which time the locking rod 27 is depressed by means of the finger 30 until the clamping ring 25 has forced the spring fingers 22 into engagement with the stock of the whip and has projected the fastening rod through the alined holes 15 and the slot 14 in the robe holding bar. When the parts are in this position, the robe holding bar is securely fastened and the spring fingers 22 are in operative engagement with the whip. The eye or loop 29 in the locking rod is now in proper position in the lock casing to receive the bolt 20 which is turned therein by the key, thus locking the fastening devices in their operative positions. Should it be desired to release the whip holding mechanism, the locking mechanism is unlocked and the locking rod thus released, after which said rod is forced upwardly by the finger 30 until the notch 31 engages the lower wall of the lock casing at which time the clamping ring 25 will have released the spring fingers 22 thereby permitting the whip to be withdrawn from its socket. To move the locking rod up sufficiently to disengage the fastening rod 26 from the locking slot and holes in the bracket 5 and head 13 of the robe holding bar, it is necessary to force the locking rod inwardly a sufficient distance to disengage the notch 31 from the lock casing, after which the rod and the parts carried thereby may be forced upwardly to a full released position, which will disengage the lower end of the fastening bar from the robe holding bar, thus permitting the springs 6 to force said bar out of the casing.

Near the lower end of the fastening rod 26 is formed a notch 32, which, when the rod is in an operative position, to secure the robe holding bar, is engaged by one of the walls of the slot 14 in the head 13 of the bar, said bar being forced into engagement with the notch by the springs 6. The notch 32 when thus engaged by the slot in the head of the robe holding bar serves as an additional means for holding the fastening rod in an operative position and before the rod 26 can be moved upwardly by the combined locking and operating rod or lever 27, it is necessary to force the robe holding bar inwardly a slight distance to disengage the wall of the slot 14 from the notch 32.

On the inner edge of the portion 9 of the robe holding bar adjacent to the head 13 is formed a laterally projecting rein holding pin 33 which extends through openings in the reins, when the robe holding bar is in an operative position, and is engaged with a keeper 34 arranged in the casing 1, as shown. When the openings in the reins or lines are engaged with the pin 33 and the bar 7 is in operative position, the reins will be securely fastened, the reins being preferably passed under and over the bar 9.

On the outer side of the lock case 19 is secured a clip 35 which is adapted to be engaged with a suitable part of the dash board thereby fastening and bracing the upper portion of the whip socket casing 16.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advan-

tages of the invention, as defined in the appended claims.

Having thus described my invention, what I claim is:

1. In a device of the character described, the combination with a base or casing, of a robe holding bar pivotally mounted in said casing, a whip socket casing arranged on said base, a whip socket arranged in said casing, spring whip holding fingers arranged on said socket, a combined finger clamping ring and robe bar fastening rod slidably mounted in said whip socket, a combined locking and operating bar secured to said clamping ring whereby the latter and said fastening rod are operated, and a locking mechanism to engage said locking bar and hold said clamping ring and fastening rod in operative position.

2. In a device of the class described the combination with a casing, of a lap robe holding bar, pivotally mounted in said casing, whip locking means, and a fastening rod operable to actuate said whip locking means and to lock and unlock said robe holding bar.

3. In a device of the character described, the combination with a base or casing, of a robe holding bar pivotally mounted therein, a slotted head on one end of said robe holding bar, a locking bracket having formed therein locking holes adapted to aline with the slot in said head when the robe holding bar is in an operative position, a whip socket casing formed on one end of said base or casing, a whip socket arranged in said casing, spring whip engaging fingers on said socket, a clamping ring operatively engaged with said spring fingers, a fastening rod connected with said ring and adapted to be projected through the alined locking holes and slot in said bracket and the head of the robe holding bar, thereby fastening said parts in an operative position, means to retract said clamping ring and fastening rod, and means to lock the same in operative position.

4. In a device of the character described, a longitudinally adjustable casing, means to secure said casing to a vehicle, a longitudinally adjustable robe holding bar pivotally mounted in said casing, a whip socket casing arranged on one end of said adjustable casing, a laterally yieldable whip socket in said socket casing, a fastening rod operable to secure said robe holding bar and whip holding socket in operative position, and a locking mechanism to secure said fastening devices in operative position.

5. In a device of the character described, an adjustable casing, an adjustable robe holding bar pivotally mounted in said casing, a whip socket casing arranged on said adjustable casing, said whip socket casing having formed therein a guide groove and a guide slot, a whip socket arranged in said casing, spring whip holding fingers arranged on said socket, a clamping ring slidably engaged with said fingers, a fastening rod carried by said clamping ring and adapted to slidably engage the groove in said whip socket casing and to be moved into and out of operative engagement with the robe holding bar to fasten the same, a combined locking and operating rod or lever secured to said clamping ring, said rod having formed therein a notch, an operating finger on one end of said rod or lever and projecting through the guide slot in said whip socket casing, a locking loop on the other end of said locking rod or lever, a lock casing secured to said whip socket casing and adapted to be engaged by the notch in said locking rod or lever to form a stop for the same, and a key operated locking mechanism in said casing and adapted to be engaged with the locking loop of said rod or lever to hold said clamping ring and locking rod in operative position.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

OTTO W. WILDE.

Witnesses:

WILLIAM S. FARQUHARSON,

ZORA E. NICHOLAS.