April 16, 1929. H. C. VER WIEBE 1,709,239

UNIVERSAL LOCKING DEVICE

Filed Nov. 11, 1927 3 Sheets-Sheet 1

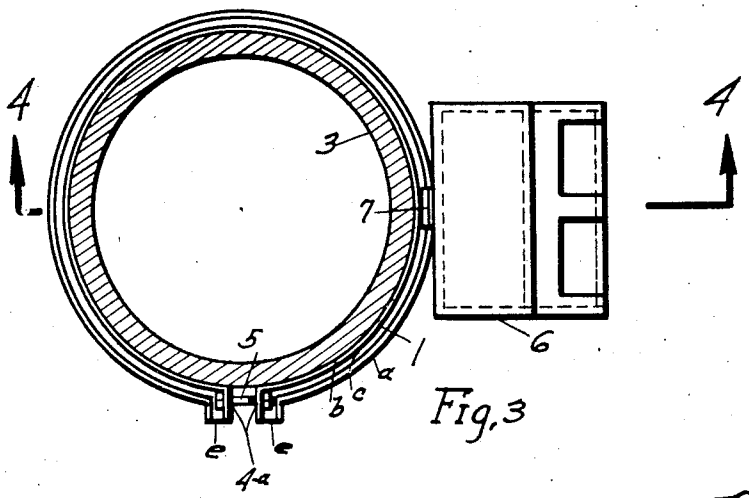


Fig. 3

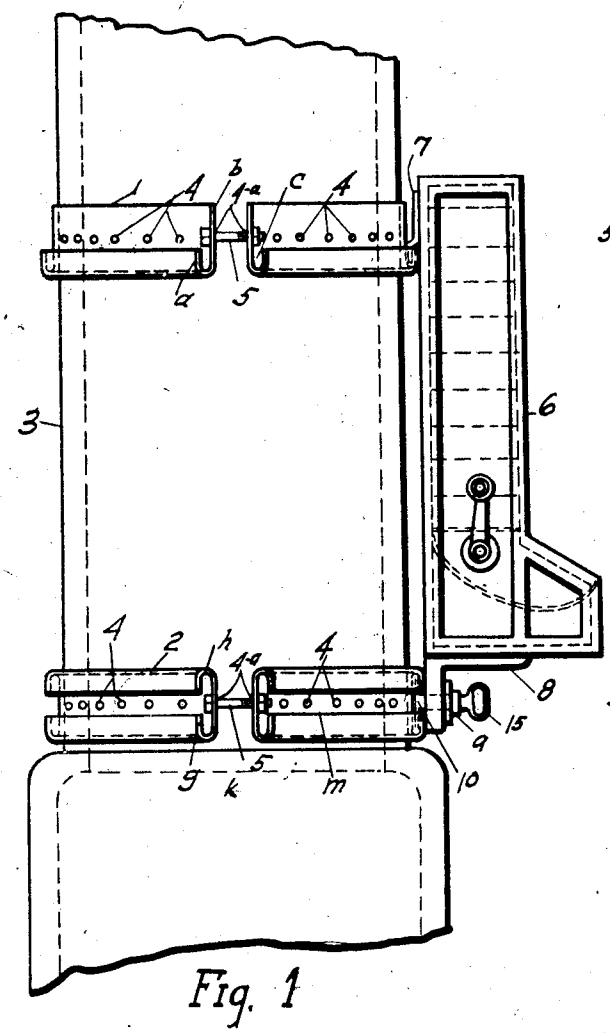


Fig. 1

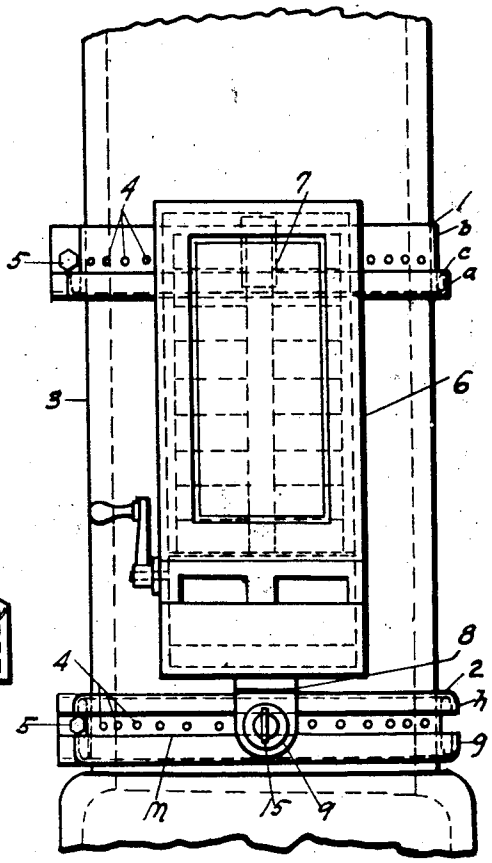


Fig. 2

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UNIVERSAL LOCKING DEVICE

Filed Nov. 11, 1927 3 Sheets-Sheet 2

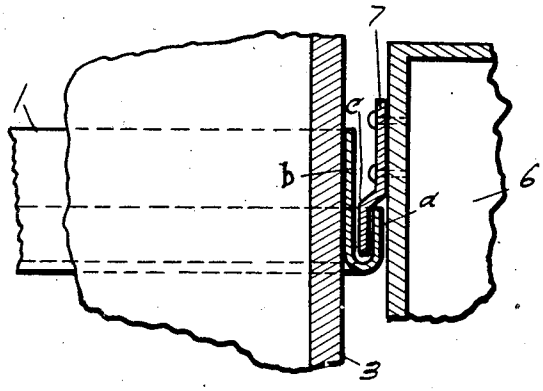


Fig. 4

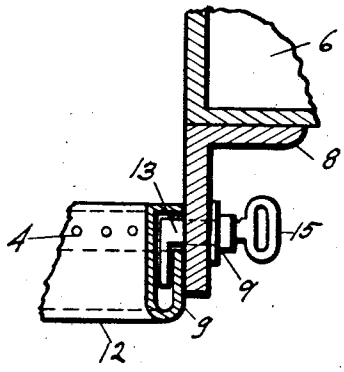


Fig. 7

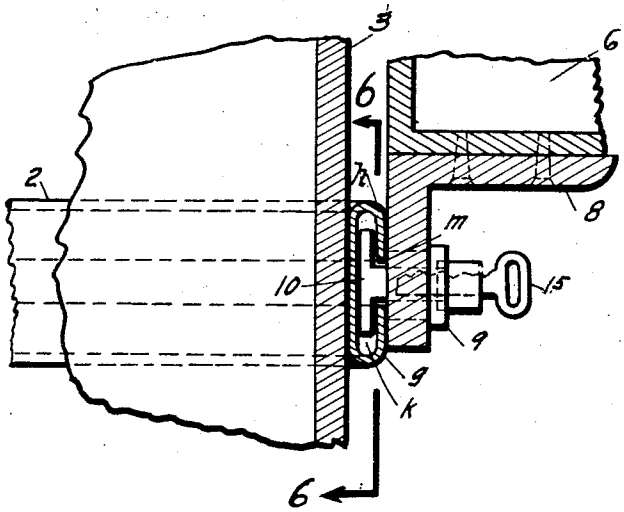


Fig 5

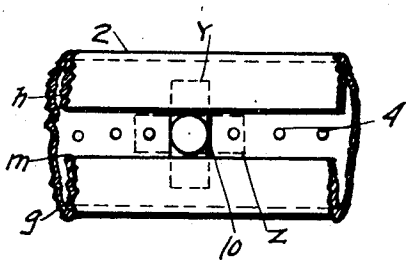


Fig. 6

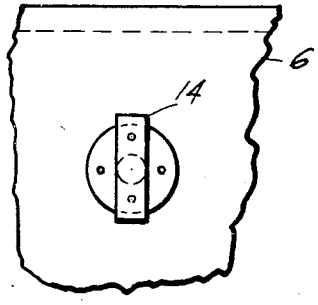


Fig 10

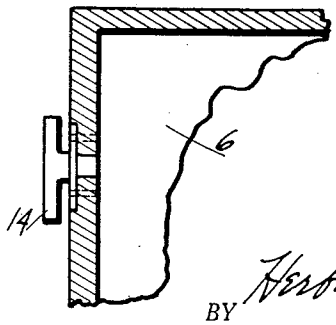


Fig. 11

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UNIVERSAL LOCKING DEVICE

Filed Nov. 11, 1927 3 Sheets-Sheet 3

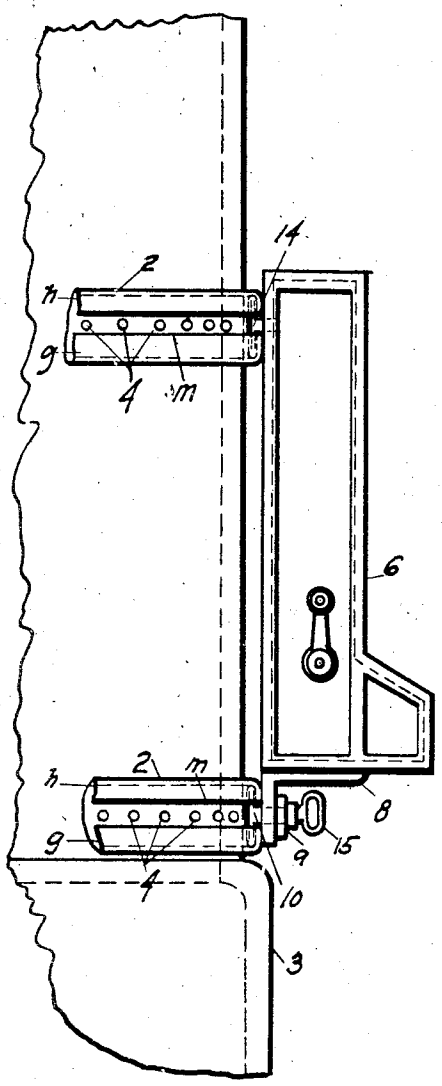


Fig. 8

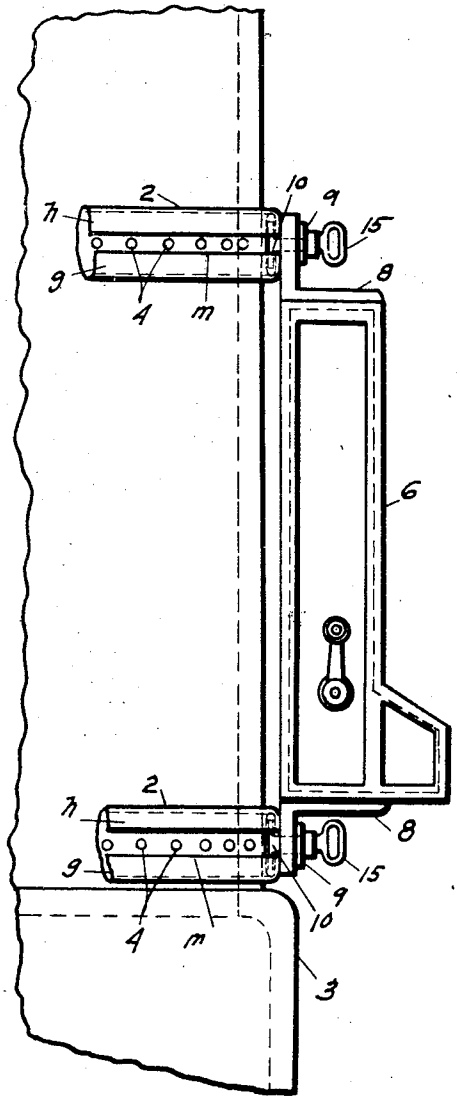


Fig. 9

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UNITED STATES PATENT OFFICE.

HERBERT C. VER WIEBE, OF ROYAL OAK, MICHIGAN.

UNIVERSAL LOCKING DEVICE.

Application filed November 11, 1927. Serial No. 232,494.

The object of my invention is to mount a vending machine on a gasoline station pump column, and in a manner that will permit the installation of such device without alteration or interference of the pump structure itself.

Another object is to provide special members for conveniently attaching to the column section of the pump, forming a rigid connection therewith, and adjustable to any position, size or shape of the pump column, and in a manner for easily attaching or detaching a vending machine thereto.

A further object is to provide special, detachable, adjustable mounting supports for clamping on any column structure and so formed as to provide means for easily mounting and locking a vending machine thereon.

A still further object is to provide a special support column band adapted for adjusting to any size and shape column section, and affords attaching means for a vending machine at any position thereof.

These several objects are obtained in the preferred form by the construction and arrangement of parts more fully hereinafter set forth.

Similar parts on all drawings are marked by similar numerals.

Fig. 1 represents a side view of a standard gasoline service station pump with the vending machine and supports attached thereto.

Fig. 2 is the side view of the gasoline pump column and vending machine shown in Fig. 1 showing the real position of the vending machine and means for attaching thereto.

Fig. 3 is a top view of the column section and vending machine attached showing the real position of the vending machine to the pump column and the means for clamping the supporting members thereto.

Fig. 4 is a sectional detailed view taken on line 4—4 Fig. 3 showing the means of attaching the vending machine to the upper band.

Fig. 5 is also a sectional view taken on line 4—4 Fig. 3 showing an enlarged detailed cross section of the lower pump band and means for attaching and locking the vending machine thereto.

Fig. 6 is a sectional view taken on line 6—6 of Fig. 5 showing a front view of the support band section illustrating the manner in which the locking mechanism engages forthwith.

Fig. 7 is an alternate form of pump column support band and locking mechanism.

Fig. 8 illustrates the alternate form of hanger supports for the vending machine as may be substituted if desired to make both upper and lower bands alike.

Fig. 9 illustrates a further modification and alternate form utilizing both upper and lower column bands of same material combined with a double locking device.

Figs. 10 and 11 show an enlarged detail of the connecting support member for the upper column band as illustrated in Fig. 8.

I will now describe more fully the detail construction of my device, referring to the drawings and the marks thereof.

It has been found that an additional service may be rendered to autoists by supplying various goods through the vending machine conveniently mounted on the gasoline pump columns at regular gasoline service stations and that by placing these vending machines within easy reach of occupants within the automobile much merchandise may be sold to them at the time of purchasing gasoline for the car, especially the merchandise, cigarettes, candy, gum, etc., much of which otherwise would not be bought, but in order to accomplish this, suitable mounting supports must be provided for engaging the gasoline pump column without cutting or defacing the same, and also providing convenient means for readily detaching the vending machine therefrom.

While I have shown an illustrated cigarette vending machine mounting on a gasoline pump column, it is to be understood that other types and kinds of vending machines for other goods may be substituted in its stead, also the mount supports may be attached to the side columns as well as the pump columns themselves.

In general my device comprises a set of revised column bands designed and formed with an open interior flanged chamber extending the entire length of the bands. Engaging members are mounted on the back walls of the vending machine for entering the flanged chamber through the wall opening at any position along either band and providing means for locking and engaging these members therein.

The column bands —1— and —2— are both made of thin bars of sheet metal, each being rolled into a special shape and of a

length for encircling the pump casing —3—. Along the center line of each of the metal column bands is formed a series of bolt holes —4— all the same size and approximately equally spaced along the band, at about one or two inches apart. The purpose of the series of holes is to enable the band section to be made in long strips or rolls adapted to cutting any required length therefrom for encircling any size pump column shaft and employing the end hole —4ª— for mounting the lock and bolt —5— therein, and clamping the column band sections tightly to the pump column shaft —3— at any position desired. The column band is formed in a hook shaped section having the outer flange —*a*— about one half the depth of the inner flange —*b*— and providing an open chamber recess —*c*— the entire length thereof. The holes —4— are formed through the long flange —*b*—, slightly above the edge of the outer flange —*a*—, sufficient for easily inserting a bolt —5— therein. Section —1— is cut from a stock bar or roll of material and to a length slightly greater than the perimeter of the pump column and both ends —3— are bent at right angles thereto and including a hole —4ª— within each end. The band —1— is placed around the pump column shaft —3— at a position near the top of the machine and the bolt —5— entered through the end holes —4ª— and when tightened will clamp the bar to the column shaft. The column band —2— is also similarly formed but shaped with double hook flanges —*g*— and —*h*—, one hook flange along each edge of the bar forming approximately a flattened C-shaped section provided with a recessed chamber —*k*— and slotted opening —*m*— the entire length of the band. The band —2— is also provided with a series of bolt holes —4— along the center line for the same purpose as the holes —4— in band —1— and is also fitted and clamped to the pump column shaft —3— by the bolt —5— in like manner. Fixedly attached to the back of the vending machine —6— near the top thereof is a flattened support hook —7— designed and attached to project the lower end of the hook away from the vending machine wall sufficient to enter and engage the recess —*c*— within the flange —*a*— of the band —1—. Also fixedly attached to the bottom of the vending machine —6— is a rigid lock support angle —8— positioned to project over the slotted opening —*m*— along the center line of the lower column band —2—. Mounted within the lock support angle —8— is a rotatable lock —9— provided with a T-shaped tumbler —10— which is of a size and shape to enter the band slot opening —*m*— when turned parallel to the slot and will enter the chamber —*k*— and may be turned within the C-shaped section of band —2— to engage the hook band flange —*g*— and —*h*—. The lock —9— is operated by the key —15— and is of a design to enable the tumbler —10— to be engaged and released at will. By hooking the top support into the recess —*c*— in the upper band —1—, and engaging the tumbler —10— within the recess —*k*— of the lower band —2—, as more specifically illustrated in Fig. 6, then turning the tumbler at right angles to the band slot opening, the vending machine may be attached thereto with a reasonable degree of security to prevent readily removing the same, and at the same time allow adjustment of the machine to any position of the column without unlocking or removing the machine therefrom. The locking bolt —5— may also be provided with a special locking nut, or other securing means, if desired to prevent the removal of the bands —1— and —2— from the column —3—, except when the bolts are released.

If desired, the C-shaped column band —2— may be replaced by a modified section —12— as shown in Fig. 7, and fitted with an L-shaped lock tumbler —*b*—. The operation and the result are practically the same as heretofore described.

Alternate or modified forms of support are shown in Figs. 8, 9, 10 and 11.

Fig. 8 shows both the upper and lower pump column bands of the same C-shaped sections —2—. The vending machine —6— in this case is however provided with a special T-shaped supporting block —14— more fully illustrated in Figs. 10 and 11, but fixedly attached to the top of the vending machine back as in the former case. The T-shaped head is positioned parallel with the vertical line of the machine —6— and to attach the vending machine thereto it must be injected within the upper column band —2— by turning the vending machine —6— at right angles to the column section for inserting the T-head —14— within the column band slot.

The vending machine is then restored to its vertical position and the T-shaped locked tumbler —10— injected within the slotted recess —*m*— of the lower column band —2—, the same to be turned at right angles to the slot by means of the key —15— as heretofore described. A further alternate form as illustrated in Fig. 9 which is merely a modification accomplished by the use of the two C-shaped bands mounted on the pump column, as heretofore described, and the vending machine —6— provided with a locked support angle —8— at both upper and lower ends of the machine, both being fixedly attached thereto. Within each support angle —8— is mounted lock —9— having a T-shaped tumbler —10— and key —15— for operating in the same manner as heretofore described. The rotatable T-shaped tumblers —10— at both the upper and lower ends of

the machine case are turned by means of the keys —15— to a position for entering the slot opening —*m*— of both bands and then turned to a position at right angles therein by means of the keys —15—.

While I have illustrated my invention in a preferred form, it is apparent that it is subject to various modifications in both design and the structures themselves without departing from the spirit of my invention, and I therefore claim the device as set forth and in any form that may be substantially a substitution for parts herein shown.

Having fully described my universal locking device, what I claim as my invention and desire to secure by Letters Patent:

1. A locking device adapted for mounting and attaching a vending machine to a column support, comprising two hollow column support bands, each formed with a recess opening the entire length thereof, means for fixedly attaching each of said support bands to a column shaft, a vending machine having engaging members mounted thereon and so positioned as to enter and engage the supporting band recesses, and at least one of the engaging members provided with a rotatably locked tumbler, means for operating said tumbler for locking said vending machine thereto.

2. A locking device adapted for mounting and attaching a vending machine to a column support comprising two hollow column support bands, each provided with means for fixedly attaching same to the column support, one of said column bands being formed of an open hook shaped design having a recess opening the entire length thereof, the other column band being formed into a hollow C-shaped member also provided with a recess opening the entire length thereof, the vending machine having a hook support member attached thereto for engaging the open recess of the hook shaped column band, said vending machine also having attached thereto a rotatable engaging member for entering the recess opening within the C-shaped column band and means attached thereto for turning said rotatable member within the column band recess for engaging and locking same therein.

In witness whereof, I sign this specification.

HERBERT C. VER WIEBE.