April 8, 1930. E. C. COOK 1,753,550

TURNTABLE

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FIG. 1.

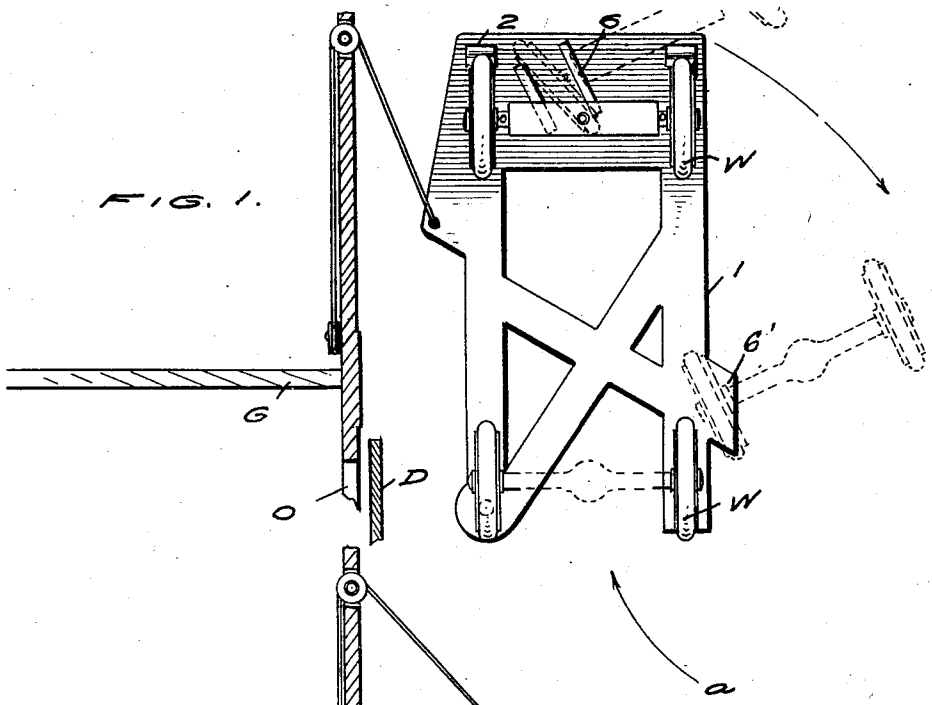
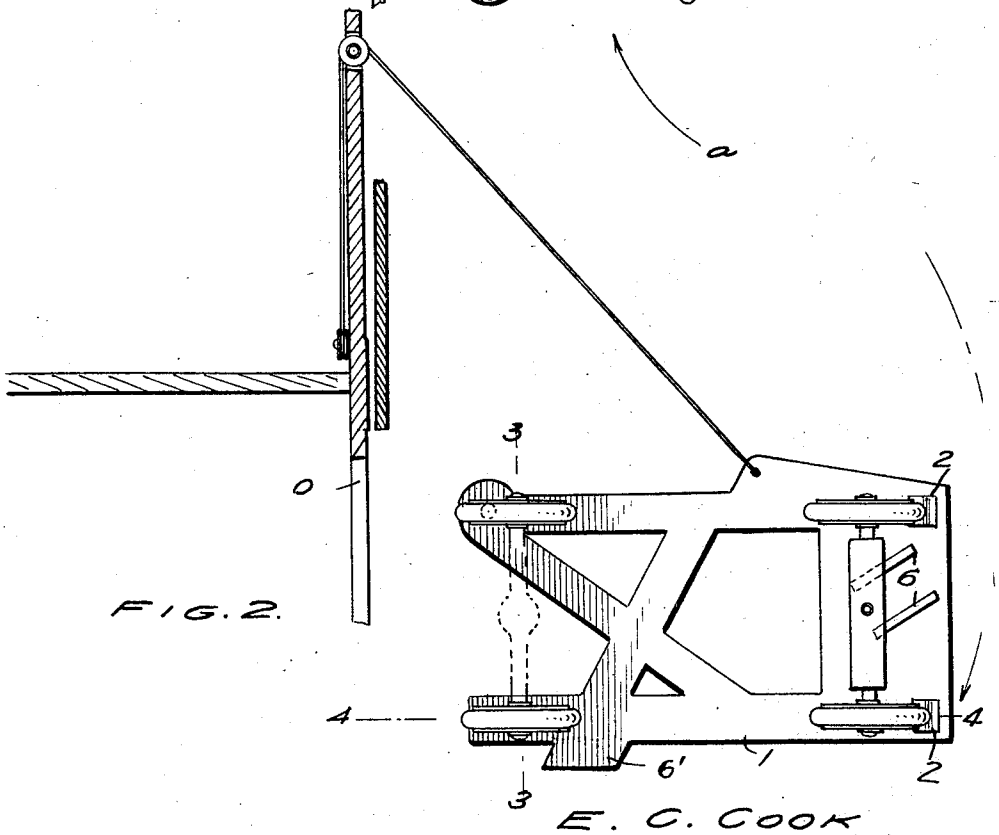


FIG. 2.



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FIG. 3.

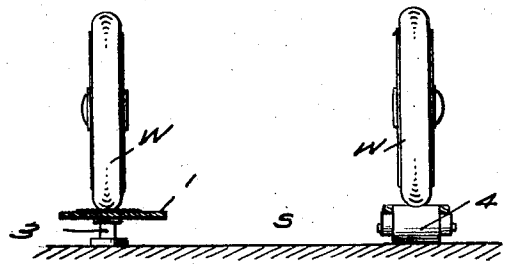
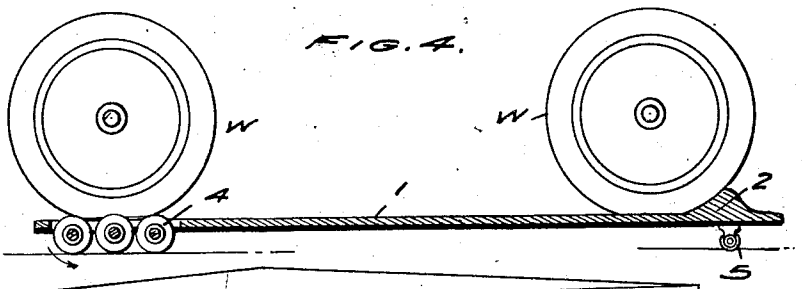


FIG. 4.



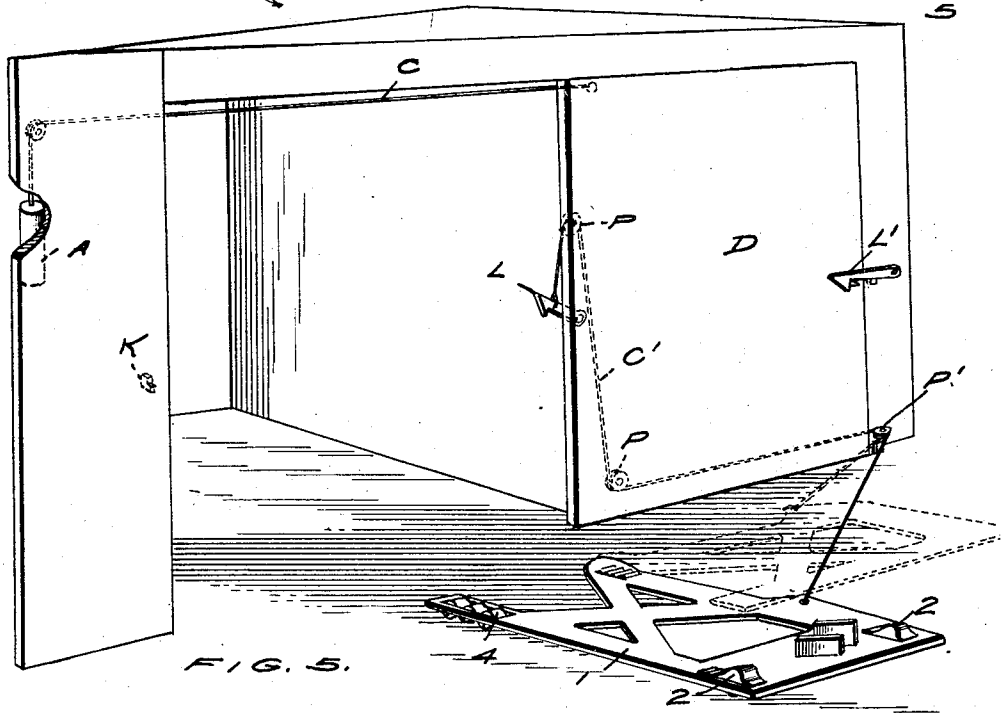


FIG. 5.

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FIG. 6.

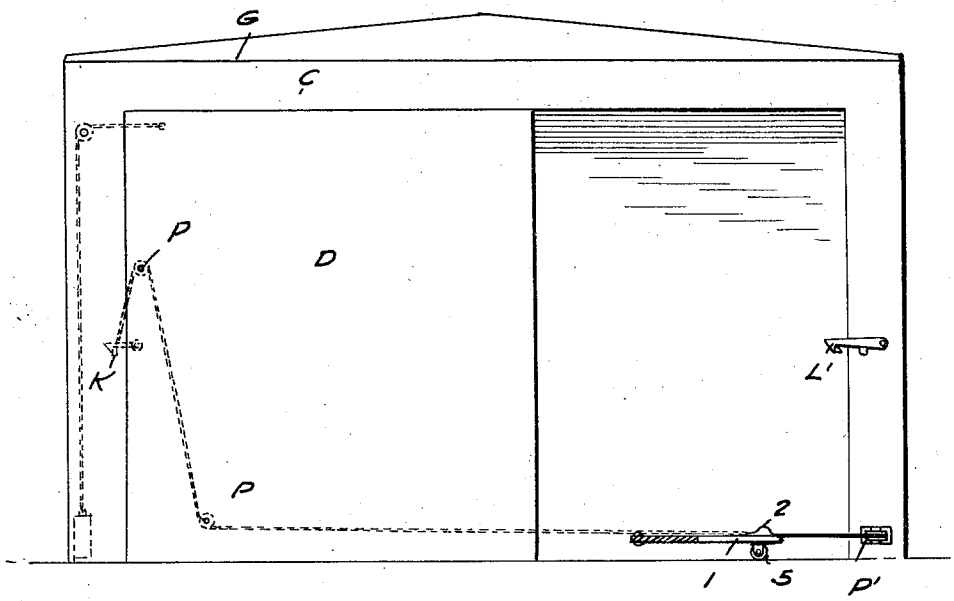


FIG. 7.

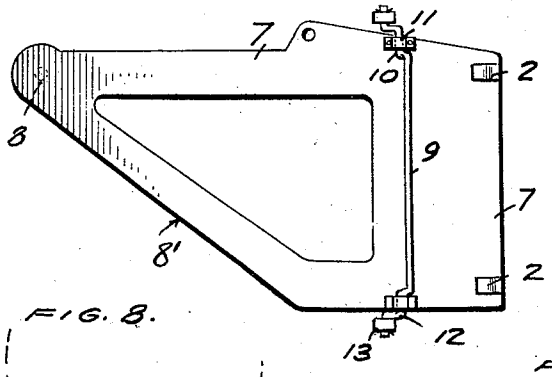


FIG. 8.

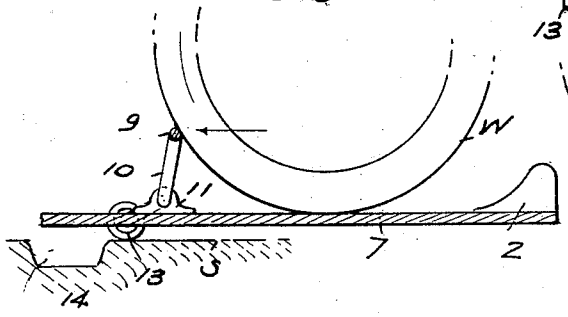
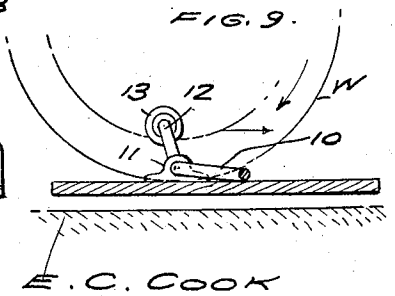


FIG. 9.



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1,753,550

UNITED STATES PATENT OFFICE

EGBERT C. COOK, OF PUENTE, CALIFORNIA

TURNTABLE

Application filed September 17, 1928. Serial No. 306,598.

This invention relates to a turntable designed primarily for use in connection with garages and at other places where it is desired to turn a vehicle within a relatively small space.

One of the objects of the invention is to provide a turntable which is shifted by the vehicle being turned thereby.

A further object is to provide a turntable which can be coupled to a door of a garage or other structure so that, as the turntable is moved to position to allow a vehicle to enter the garage, the door will be opened.

With the foregoing and other objects in view which will appear as the description proceeds the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed may be made within the scope of what is claimed without departing from the spirit of the invention.

In the accompanying drawings the preferred forms of the invention have been shown.

In said drawings,

Figure 1 is a plan view of a turntable showing one position of a motor vehicle thereon, another position of a vehicle being indicated by broken lines.

Figure 2 is a top plan view showing the turntable swung to position to allow a vehicle to enter a garage or other enclosure with which the turntable is associated.

Figure 3 is a section on line 3—3, Figure 2.

Figure 4 is a section on line 4—4, Figure 2.

Figure 5 is a perspective view of the platform and an adjacent structure, two positions being illustrated.

Figure 6 is a section through a portion of the turntable positioned as shown in Figure 1 and showing the garage door closed.

Figure 7 is a plan view of a modified form of turntable.

Figure 8 is an enlarged section through a portion thereof showing one of the positions of the retaining bar.

Figure 9 is a similar view, showing another position of the retaining bar.

Referring to the figures by characters of reference 1 designates a platform of any desired material sufficiently large to receive and support the four wheels W of a motor vehicle. The front wheels of the vehicle are adapted to come against stops 2 arranged on one end portion of the platform. The other end portion of the platform is provided at one side with a pivot 3 about which the platform is adapted to swing. Adjacent the opposite side of this end of the platform in a series of rollers 4 connected to the platform and projecting slightly thereabove so as to be engaged by one of the rear or drive wheels of the vehicle as shown particularly in Figure 3. The lower portions of the rollers contact with the smooth surface S of concrete or the like above which the platform is located. Casters 5 may be arranged beneath the front portion of the platform where they can move freely over the supporting surface.

Formed on the platform or secured thereto between the stops 2 are upstanding flanges 6 and these are so located that when one of the front wheels of a vehicle is positioned between flanges the other front wheel will rest on the supporting surface S at a point beyond the platform. An extension 6′ is provided on the platform adjacent the rear end thereof and is adapted to support one of the rear wheels of the vehicle when one of the front wheels is located between the flanges 6 as described. These positions of the wheels have been indicated by broken lines in Figure 1.

The platform described is adapted to be located adjacent to the door opening O of a garage G or other enclosure. When a vehicle is driven in the direction indicated by the arrow *a* in Figure 1, it will travel on to the platform until its front wheels come against the stops 2 and one of the rear or drive wheels becomes seated on the rollers 4. Rotation of the rear wheel W supported by the rollers 4 is continued at a low speed and this will cause the rollers 4 to revolve in the direction indicated by the arrow in Figure 4 with the result that they will travel backwardly over the supporting surface S and cause the platform to swing about the pivot 3. When the platform is brought to the posi-

tion shown in Figure 2 substantially at right angles to the wall in which the opening O is located, the movement of the vehicle wheel is stopped.

If desired the platform can be coupled up to a sliding door D used for closing the opening O. This door can be mounted in any manner desired and may be provided with a weighted cable C or the like for holding it normally shut at which time a latch L will engage a keeper K. Another cable C′ can be extended from the latch L to a guide pulley P on the door D and thence to another guide pulley P′ on the wall of the structure at a point back of the path of movement of the door as shown in Figure 5. From the pulley P′ the cable C′ can be extended to one side of the platform near the forward end thereof. Thus when the platform is swung from the position shown in Figure 1 to the position shown in Figure 2 is will pull through the cable C′ upon the latch to disengage the latch from the keeper K and then pull the door D to open position. This will bring the door to a point where it will be engaged by a latch L′. At the same time the cable C will pull on the weight A.

After the platform has been brought to the position shown in Figure 2 and in full lines in Figure 5 the vehicle can be backed off of the platform and through the opening O into the garage or other enclosure G. By then releasing latch L′ the door will close under the action of the weight A and this movement will result in the swinging of the platform back to its initial position shown in Figure 1. Obviously the door can be opened whenever desired without actuating the platform.

Where a second car is to be directed into the garage, the same can be positioned with its front left wheel between the flanges 6 and its rear left wheel upon the extension 6′ as indicated by broken lines in Figure 1. By turning the front wheel so that it will engage both flanges 6 and then reversing the right rear wheel of the vehicle, so that it will back the vehicle, said vehicle and the platform will swing about the pivot 4 and bring the vehicle to a point in front of the opening O where it can enter the garage at one side of the vehicle already stored therein.

For the purpose of holding the vehicle properly assembled with the platform a retaining means such as shown in Figures 7, 8 and 9 can be employed. This retaining means is adapted to be used where one of the rear wheels of the vehicle is employed as a means for swinging the platform by direct contact with the supporting surface under the platform. Referring to Figure 7 the platform 7 is pivotally mounted as at 8, the rear corner portion being cut away as indicated at 8′ so that when three of the wheels of the vehicle are resting on the platform the right rear wheel will rest on the surface above which the platform is located. A retaining rod 9 is extended transversely of a portion of the platform and can be located where it will extend back of the front wheels of the vehicle while resting on the platform. This rod has crank arms 10 at the ends thereof journaled within bearings 11 mounted on the platform and additional crank arms 12 are extended from the crank arms 10 and carry rollers 13. The crank arms 12 are not located in the same plane with the crank arms 10 but are offset relative thereto as shown in Figures 8 and 9.

When the vehicle is driven on to this platform the front wheels will pass over the rod 9, swinging it downwardly on to the platform as shown in Figure 9. This will also lift the rollers 13 as shown in said figure. After the wheel has passed over the rod 9 the rollers 13, acting as weights, will swing the rod upwardly to position back of the wheels as shown in Figure 8 at which time the rollers 13 will rest on the supporting surface thereunder. One of the rear wheels of the vehicle will rest on the surface S and when the vehicle is placed in reverse this rear wheel will pull on the platform so that it will swing about the pivot 8. At the time the vehicle is brought to position at right angles to the wall containing the opening through which the vehicle is to pass, the rollers 13 will drop into recesses 14 provided in the surface S. Thus further movement of the wheel will result in the rearward travel of the vehicle off of the platform because the rod 9 can no longer retain the vehicle.

The means shown and described for operating the door can be varied at will, it being understood that the mechanism employed can suit any conditions present. While the platform is particularly useful in small spaces where a vehicle cannot ordinarily be turned, it can be used under other conditions such as in excavation projects. Obviously various modifications of the platform structure can be made within the scope of the claims.

What is claimed is:

1. The combination with a door, of a turntable, a platform pivotally mounted at one side of one end thereof, said end being adapted to support one of the rear wheels of a motor vehicle, means on the platform for limiting the forward movement of a vehicle thereon, said platform being shiftable about its pivot by actuation of one of the rear wheels of said vehicle, and means operated by the platform while moving about its pivot for opening the door.

2. A turntable including a platform pivotally mounted at one side of one end thereof, a stop device on the other end portion of the platform, a motor driven vehicle engaging the stop device and having one of its drive wheels supported on the pivoted portion of the platform, the other drive wheel of the vehicle constituting means for swinging

the platform about the pivot, a movable door, and means actuated by the platform for shifting the door to open position.

3. A turntable including a platform pivotally mounted at one side of one end thereof, a stop device on the other end portion of the platform, a motor driven vehicle engaging the stop device and having one of its drive wheels supported on the pivoted portion of the platform, the other drive wheel of the vehicle constituting means for swinging the platform about the pivot, vehicle retaining means movably mounted on the platform and means released by the arrival of the platform at point of delivery, for releasing the retaining means from holding position.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

EGBERT C. COOK.