

J. BARWICKI.
 TURNTABLE FOR VEHICLES.
 APPLICATION FILED FEB. 1, 1921.

1,379,239.

Patented May 24, 1921.

3 SHEETS—SHEET 1.

Fig.-1.

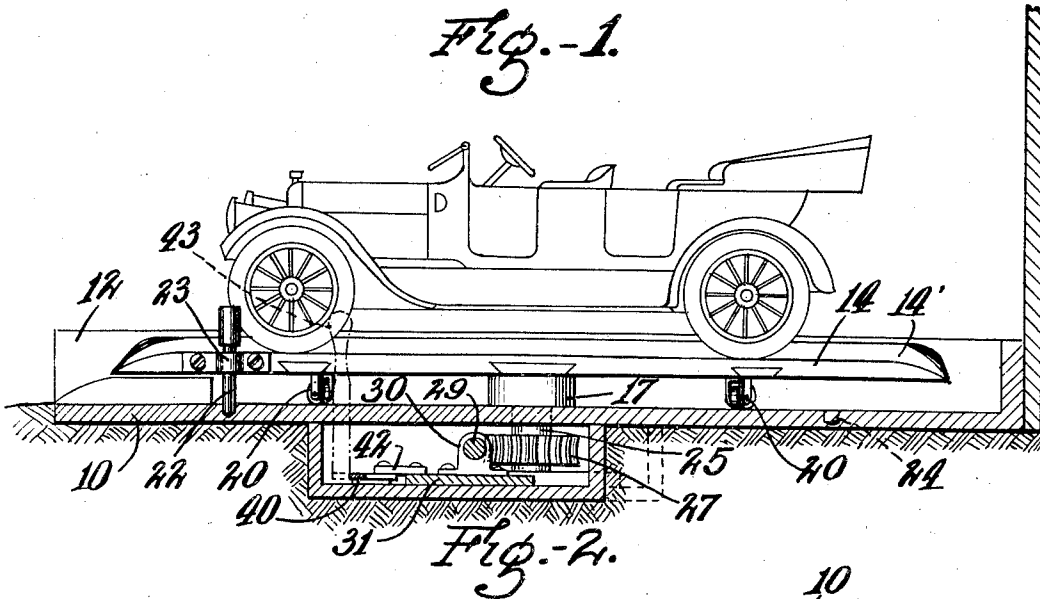
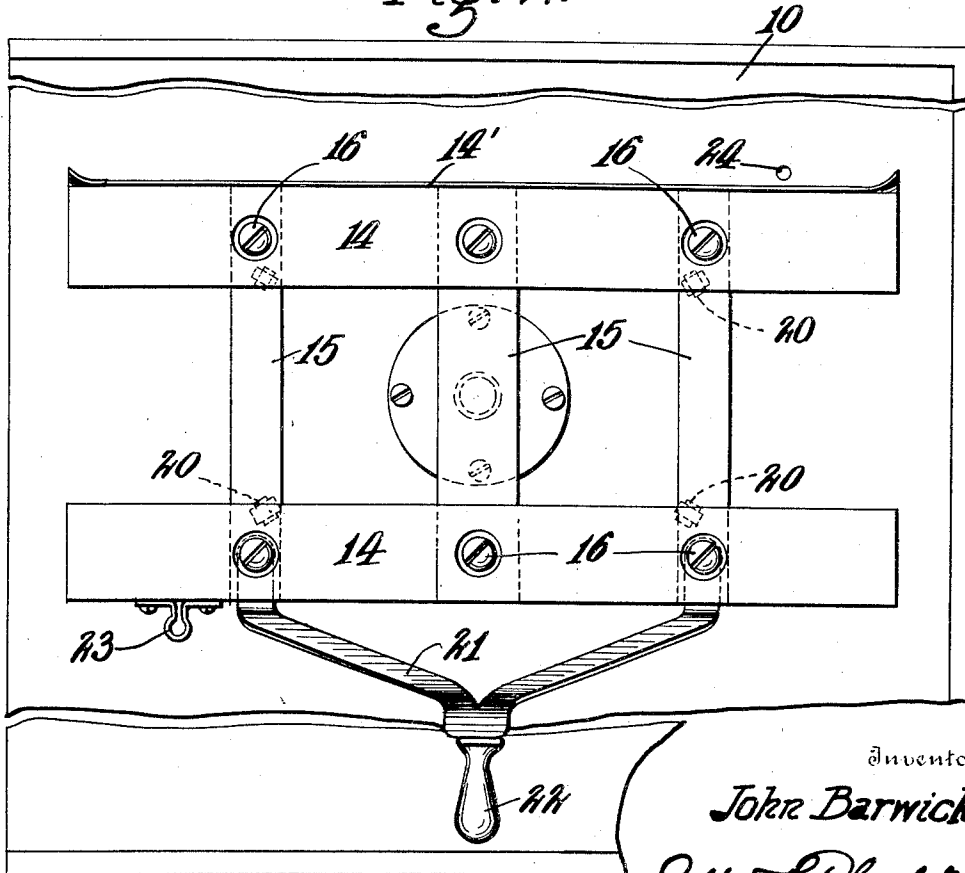


Fig.-2.



Inventor

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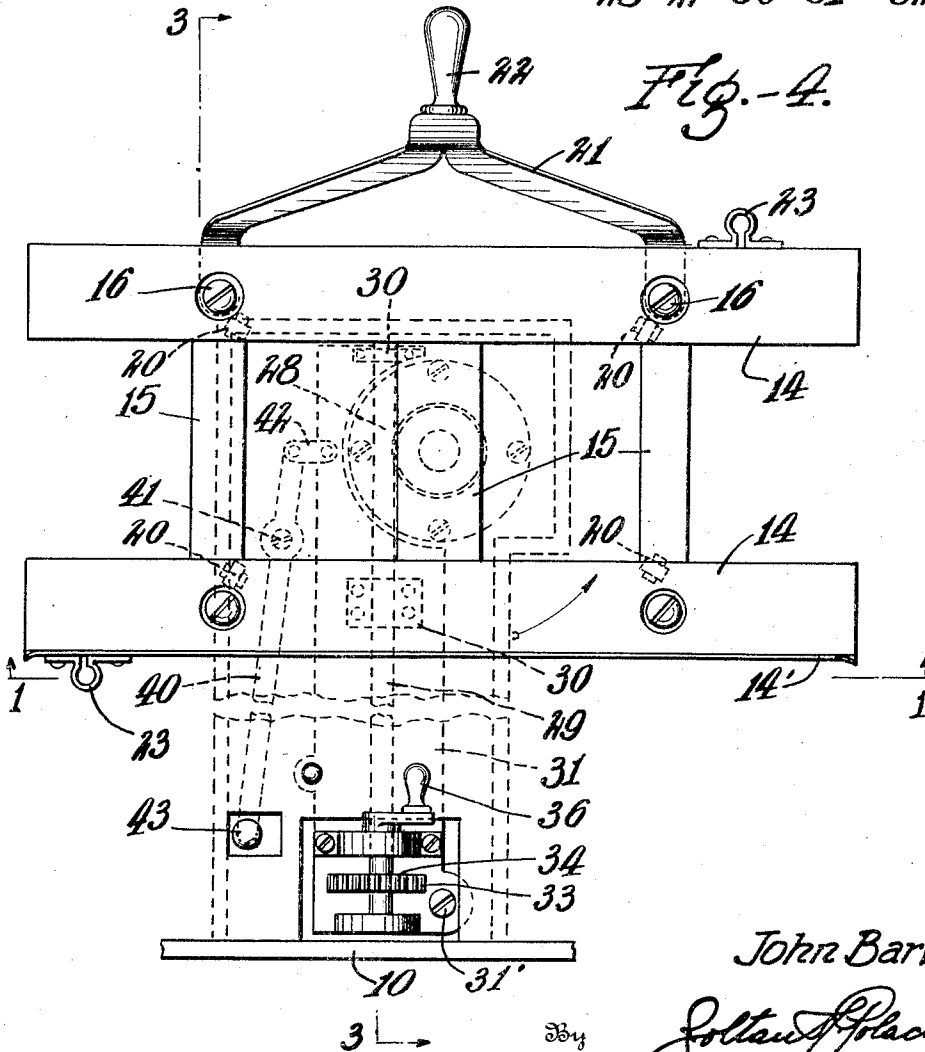
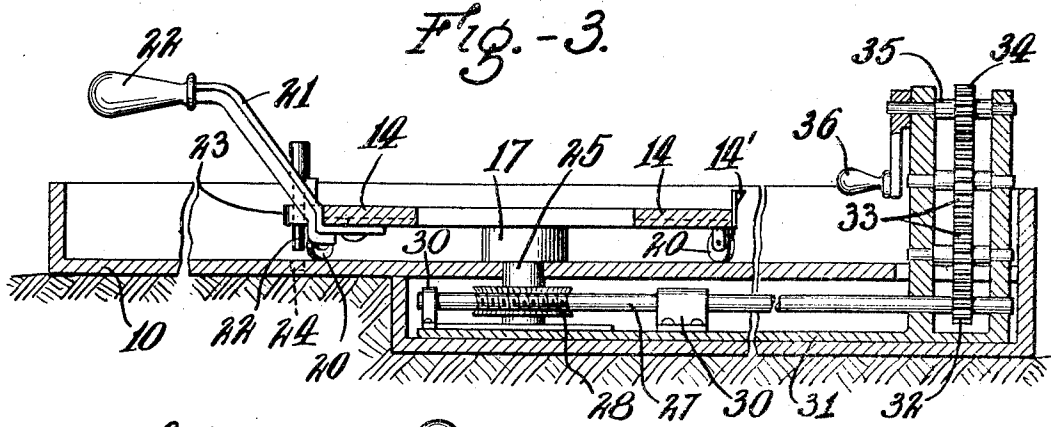
John F. Plachet
 Attorney

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3 SHEETS—SHEET 2.



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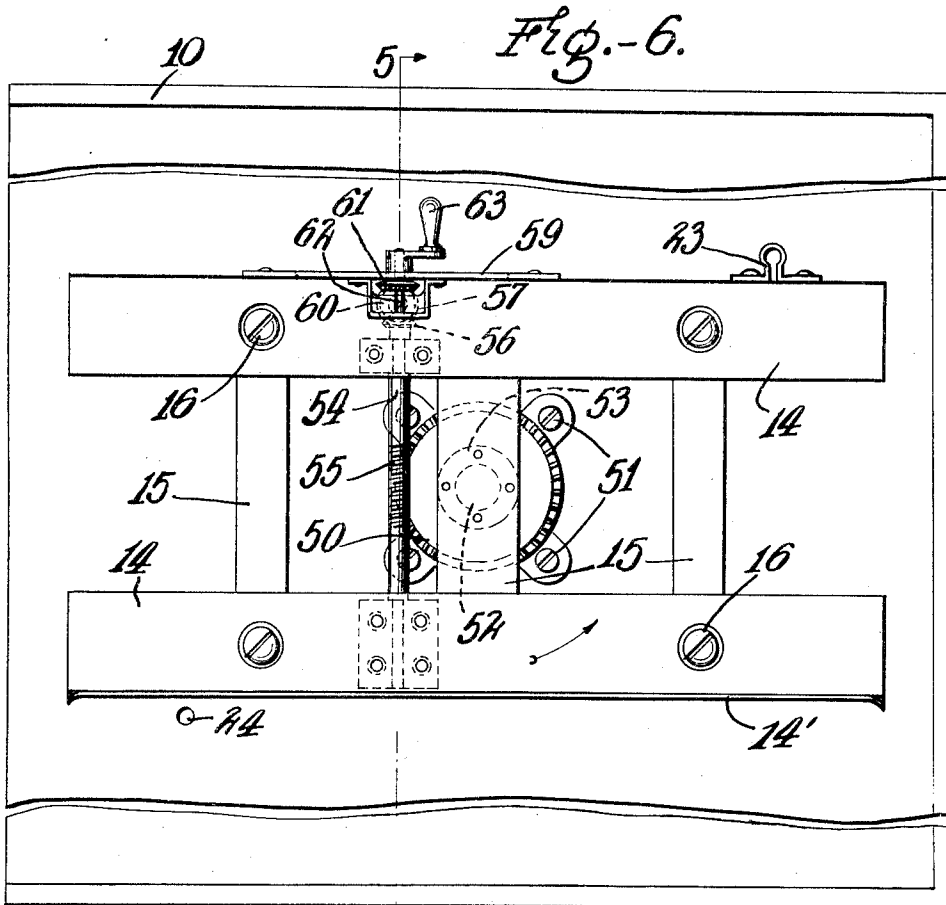
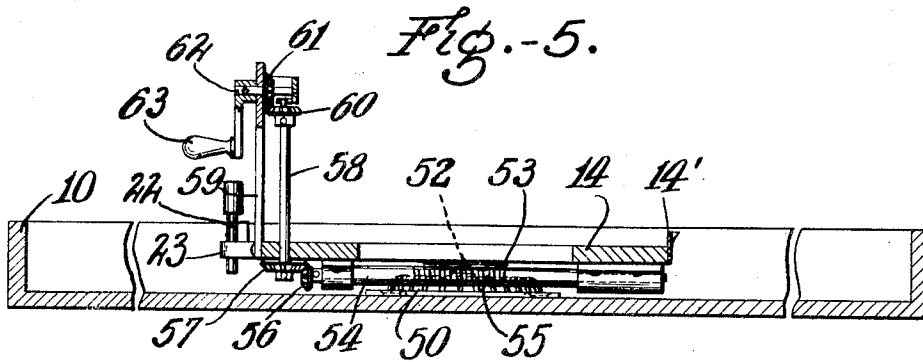
John A. Glackie
 Attorney

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3 SHEETS—SHEET 3.



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UNITED STATES PATENT OFFICE.

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TURNTABLE FOR VEHICLES.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN BARWICKI, citizen of Poland, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Turntables for Vehicles, of which the following is a specification.

This invention relates to turntables, being intended more particularly for use in small private garages to obviate the necessity of backing out the automobile housed therein, enabling it to be readily turned around to face the door of the garage.

The invention has for an object to provide a device of this kind suitable for use in connection with an automobile, and further to provide a simple arrangement of parts whereby the turntable may be readily swung around by direct manual application of force thereto, or may be operated through the intermediary of reducing gearing.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

Figure 1 of the drawings is a vertical sectional view of a turntable constructed according to the invention, indicating an automobile in position thereon, this view being taken on the line 1—1 of Fig. 4.

Fig. 2 is a plan view of the turntable as arranged for direct manual operation.

Fig. 3 is a vertical section being taken on the line 3—3 of Fig. 4.

Fig. 4 is a plan view of the turntable, this view, as well as Figs. 1 and 3, showing the turntable equipped with the reducing gearing.

Fig. 5 is a transverse vertical section of a modified construction of the turntable, this view being taken on the line 5—5 of Fig. 6.

Fig. 6 is a plan view of this modification.

In constructing my improved turntable I provide a base member 10 which rests upon a concrete flooring on foundation 11, which latter may be the floor of the garage. This base 10 may have a shallow up-standing flange 12 around three sides thereof, the side facing the door of the garage being unflanged.

This turntable proper comprises a pair of plank-like rails 14 secured together by and supported upon a series of transverse beams

15 one of which is located midway between the ends of the rails 14 and the others toward the end of the rails, these beams being secured to the rails by suitable fastening means such as the screws 16. The rail on the left hand side of the turntable, considering the latter as seen looking inwardly from the door of the garage, may have a flange 14' extending along the outer side thereof.

Fixed to the underside of the center beam 15 is a downwardly projecting solid hub 17 which engages the base 10 to provide the pivot on which the turntable rotates.

Mounted on the underside of the turntable and spaced evenly around the center thereof on axes lying in lines radial to the turntable, are a series of casters 20 which form the support for the turntable.

Fixed to one of the rails 14, and projecting at a general upward and outward inclination therefrom, is a yoke 21 having a handle 22 at its upper end. By this means the turntable may be easily rotated by direct manual action when unloaded, or when a light car is mounted thereon.

Mounted to have vertical sliding movement on the turntable is a pin 23 which is here shown as guided in an eye 24 upon the side of the rail 14, this pin being adapted to engage in either of a pair of sockets 25 in the base to hold the turntable in its proper position with the rails pointing toward the door of the garage.

The device as so far described is suitable for use with light cars, but for use with heavy cars I provide a reducing gearing for rotating the turntable. To this end the hub 17 has formed integrally therewith an extension 25 which projects into a recess 26 in the floor 11 under the base 10, this extension having formed thereon a worm gear 27 which is engaged by a worm pinion element 28 on a horizontal shaft 29. This shaft 29 is journaled in suitable bearings such as 30 on an elongated support 31 extending under the turntable at an angle thereto considering the latter in its normal position, this support being hinged at its outer end, which projects a distance beyond the turntable, to the bottom of the recess 26 as at 31'. Fixed to the outer end of this shaft 29 is a gear 32 which meshes with an idler gear 33 located above it, this gear 33 in turn meshing with an upper gear 34 fixed on a shaft 35 on which is a crank handle 36, these gears 33 and 34 being carried by a pair of bearings on the support

31 which are projected upwardly through a suitable opening in the base 10. As will be apparent, when crank 36 is rotated, the turntable will be rotated at reduced speed.

5 In order to enable the pinion element to be moved out of engagement with the gear when desired, I provide a lever 40, in the recess 26, which is fulcrumed between its ends as at 41 to the bottom thereof and connected at one end by a short link 42
10 with the support 31, the opposite end having a handle 43 thereon which extends upwardly through a suitable opening in the base 10.

15 By moving the lever 40 the support 31 may be swung on its hinge point, thus moving the pinion element 28 into or out of engagement with the gear 27. A pin 45, slidably carried by the base 10, is adapted
20 to engage in a suitable socket in the support 31 to hold the latter in position with the worm gear and pinion in engagement. While, in the drawings I have shown the shaft 29 and support 31 as extending at
25 right angles to the turntable, these parts may also be arranged at any other angle that may be desired.

In Figs. 5 and 6 of the drawings I have shown another arrangement of operating
30 means for the turntable. In this arrangement a worm gear 50 is fixed to the base 10, as by the screws 51, this worm having a projecting hub 52 which engages in a socket element 53 fixed to the underside of
35 the central beam 15 to form the pivot for the turntable.

Suitably journaled to and under the rails 14 is a transverse shaft 54 on which is a pinion 55 meshing with the gear 50. One
40 end of this shaft has fixed thereon a bevel gear 56 which meshes with a like gear 57 on the lower end of a vertical shaft 58, this shaft being suitably supported by a bracket element 59 carried by the adjacent side
45 rail. Upon the upper end of this shaft 58 is fixed another bevel gear 60 meshing with a like gear 61 on a horizontal stub shaft 62 carried by the bracket element 59, this stub shaft 62 being adapted for rotation
50 by a hand crank 63. With this arrangement no recess under the base 10 is needed, while the operator follows the turntable as the latter moves.

Having thus described my invention what
55 I claim as new and desire to protect by Letters Patent of the United States is as follows:—

1. A device of the class described comprising a base, a turntable pivoted on said
60 base, a worm gear fixed to said turntable concentric to its pivot, a worm pinion meshing with said worm gear, means for rotating said worm pinion, manually operable

means for moving said worm pinion bodily into and out of engagement with said worm
65 gear and a handle fixed to said turntable for manual rotation thereof when said worm pinion is disengaged from said worm gear.

2. A device of the class described comprising a base, a turntable pivoted on said
70 base, a worm gear fixed to said turntable concentric to its pivot, a worm pinion meshing with said worm gear, means for rotating said worm pinion, and means for moving
75 said worm pinion bodily into and out of engagement with said worm gear, said means including a support on which said worm pinion is mounted, said support being hinged to said base.

3. A device of the class described comprising a base, a turntable pivoted on said
80 base, a worm gear fixed to said turntable concentric to its pivot, a worm pinion meshing with said gear, a shaft on which said worm pinion is fixed, an elongated support
85 on which said shaft is mounted, said support being hinged adjacent one end to the said base, means for rotating said shaft, and a lever fulcrumed on said base and engaging
90 said support to swing the latter to move the said pinion into or out of engagement with the said gear.

4. A device of the class described comprising a base, a turntable pivoted on said
95 base, a worm gear fixed to said turntable concentric to its pivot, a worm pinion meshing with said gear, a shaft on which said worm pinion is fixed, an elongated support
100 on which said shaft is mounted, said support being hinged adjacent one end to the said base, means for rotating said shaft, and a lever fulcrumed on said base and engaging
105 said support to swing the latter to move the said pinion into or out of engagement with the said gear, a socket in said base, and a pin vertically slidably carried
by said turntable and adapted to engage in said socket.

5. A device of the class described comprising a base, a worm gear fixed to said
110 base, a turntable pivoted on said base concentric to said worm gear, a horizontal shaft journaled on said turntable, a worm pinion on said shaft meshing with said gear, and
115 means for rotating said shaft, said means comprising a vertical shaft carried by the turntable, meshing bevel gears on the lower end of said vertical shaft and one end of
said horizontal shaft, a stub shaft adapted for rotation by a crank, and meshing bevel
120 gears on said stub shaft and the upper end of said vertical shaft.

In testimony whereof I have affixed my signature.

JOHN BARWICKI.