

H. M. VERPLANCK.

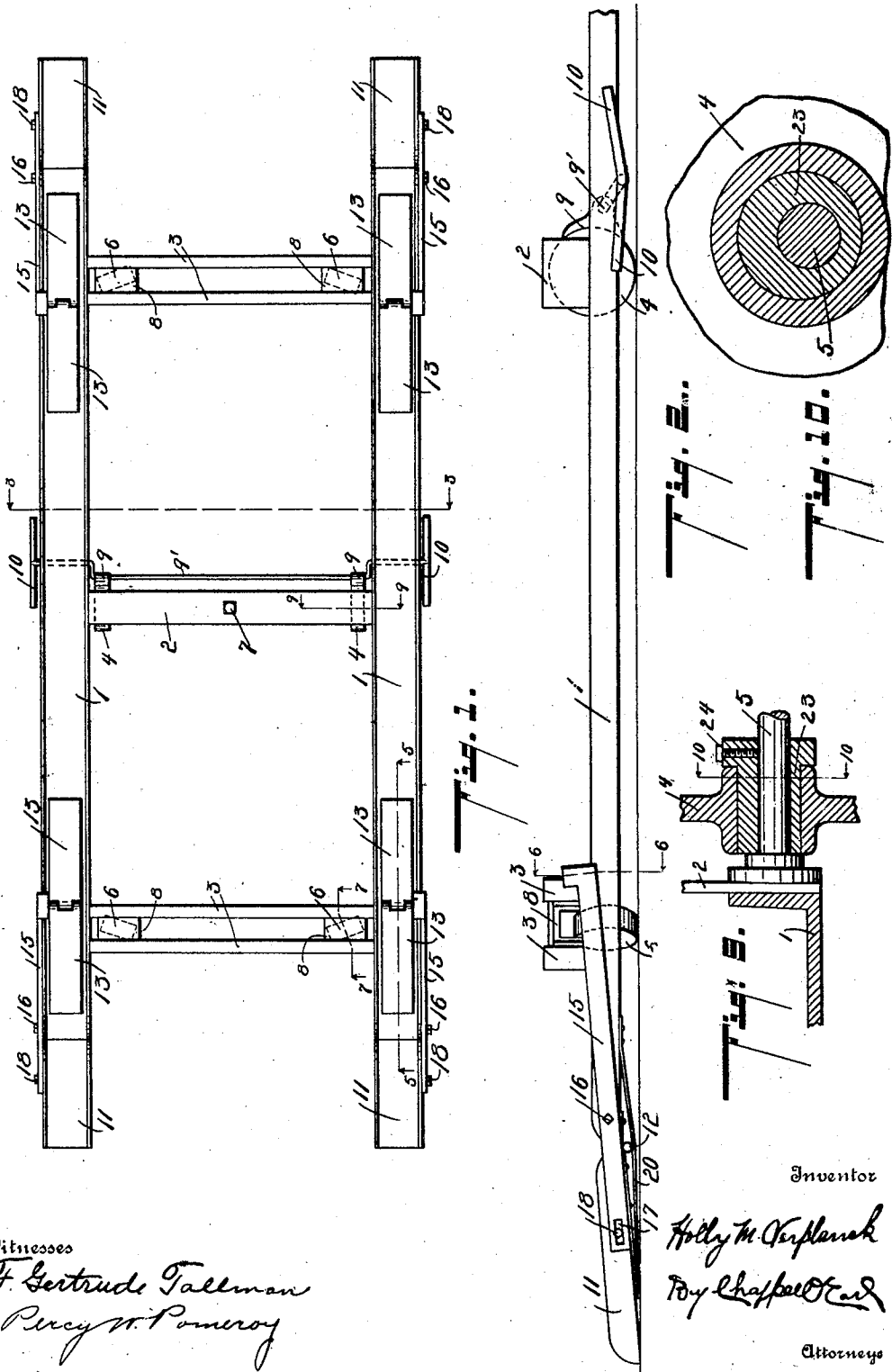
TURN TABLE.

APPLICATION FILED JULY 26, 1909.

938,920.

Patented Nov. 2, 1909.

2 SHEETS—SHEET 1.



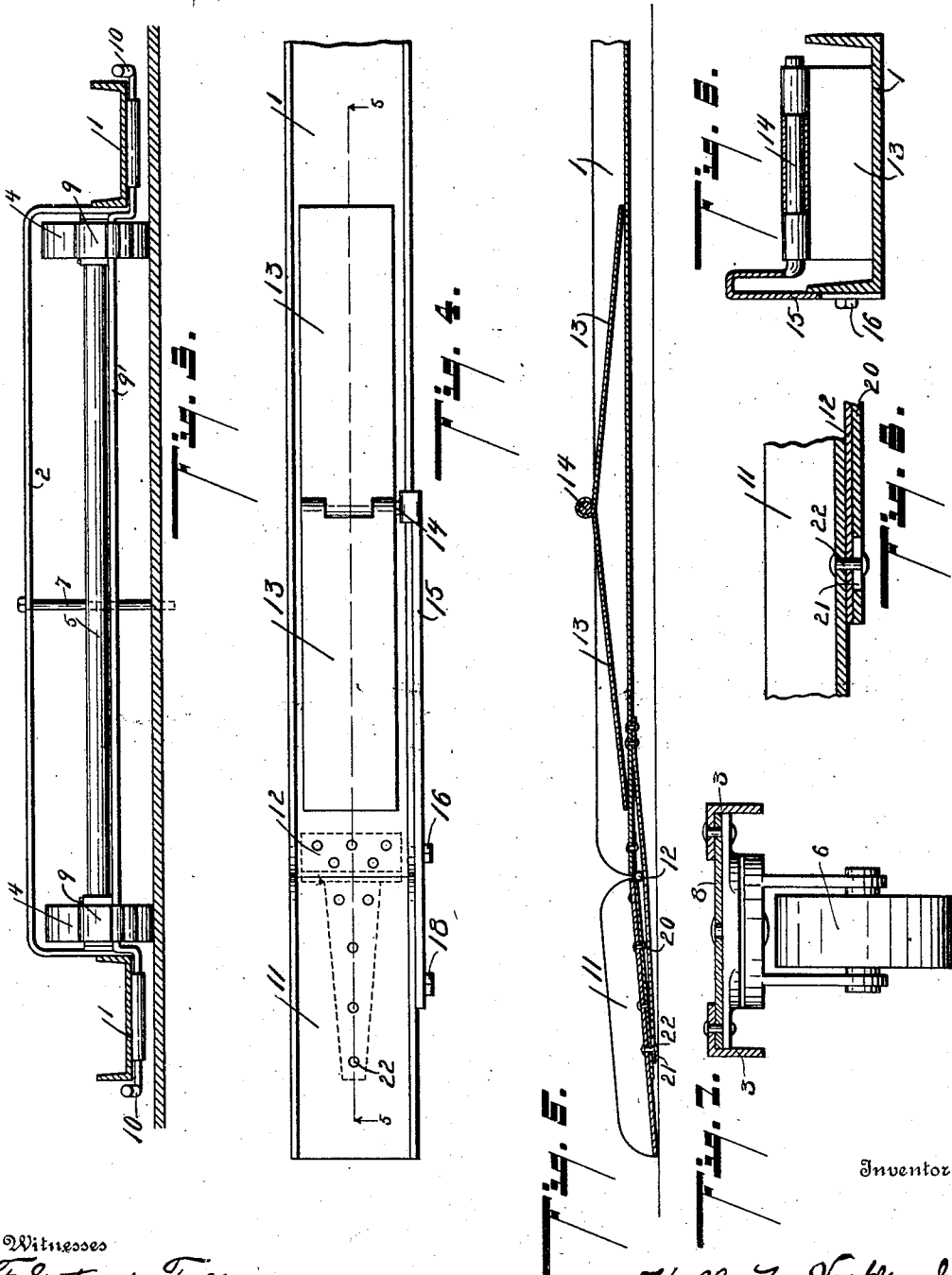
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UNITED STATES PATENT OFFICE.

HOLLY M. VERPLANCK, OF LANSING, MICHIGAN, ASSIGNOR TO LANSING WHEEL-BARROW COMPANY, OF LANSING, MICHIGAN.

TURN-TABLE.

938,920.

Specification of Letters Patent.

Patented Nov. 2, 1909.

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To all whom it may concern:

Be it known that I, HOLLY M. VERPLANCK, a citizen of the United States, residing at the city of Lansing, county of Ingham, State of Michigan, have invented certain new and useful Improvements in Turn-Tables, of which the following is a specification.

This invention relates to improvements in turntables.

The main objects of this invention are: First, to provide a combination truck and turntable for automobiles. Second, to provide a portable turntable for automobiles and other vehicles. Third, to provide a turntable which may be very quickly and easily operated. Fourth, to provide in a turntable an improved body structure. Fifth, to provide in a turntable an improved arrangement of the wheels. Sixth, to provide inclines for the ends of the turntable platform or body which are automatically actuated.

Further objects, and objects relating to structural details will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification.

The structure described constitutes one effective embodiment of my invention. Other embodiments would be readily devised by those skilled in the art.

The invention is clearly defined and pointed out in the claims.

A structure embodying an effective and preferred embodiment of the features of my invention is clearly illustrated in the accompanying drawing, forming a part of this specification, in which:

Figure 1 is a plan view of a structure embodying the features of my invention. Fig. 2 is a detail side elevation thereof. Fig. 3 is a transverse vertical section taken on a line corresponding to line 3-3 of Fig. 2. Fig. 4 is an enlarged detail plan of one of the ways. Fig. 5 is a detail longitudinal section taken on a line corresponding to line 5-5 of Figs. 1 and 4. Fig. 6 is an enlarged detail section taken on a line corresponding to line 6-6 of Fig. 2, showing the details of one of the incline lifting treads. Fig. 7 is an enlarged detail taken on a line corresponding to the broken line 7-7 of Fig. 1,

showing the caster wheels. Fig. 8 is an enlarged detail section corresponding to that of Fig. 5, showing the connections for the spring 20 to the incline 11. Fig. 9 is an enlarged detail taken on a line corresponding to line 9-9 of Fig. 1, showing details of the bearings for the wheels 4. Fig. 10 is a detail section taken on line 10-10 of Fig. 9.

In the drawings, similar reference characters refer to similar parts throughout the several views, and the sectional views are taken looking in the direction of the little arrows at the ends of the section lines.

Referring to the drawing, the body of my improved turntable preferably consists of a pair of ways 1, which are preferably channel shape in cross section. These ways are preferably connected by cross pieces 2 and 3, the cross piece 2 being centrally arranged and the cross pieces 3 being arranged toward each end of the ways. A pair of wheels 4 is located centrally of the ways and provided with an axle 5, which is arranged at right angles to the ways. See Fig. 3.

The wheels 6 arranged toward the ends of the body are preferably caster wheels as illustrated, so that they can adjust themselves to travel in a circle about the pivot or king bolt 7 or to permit the use of the turntable as a truck. These wheels are supported in hangers 8 carried by the cross pieces 3. I preferably provide my improved turntable with a pivot king bolt 7, although it is not an essential to the practical working of the device, as by locking the central wheels through the brake mechanism the table is blocked or held to permit the running of a car thereon, when it can be readily turned upon releasing the brake, without the central pivot or king bolt.

The brake mechanism preferably consists of a pair of brake shoes 9, mounted on the crank rod 9', which is supported in bearings on the under sides of the ways, see Fig. 3. The crank rod is provided with a pair of foot levers 10 so that the brakes can be readily shifted into or out of engaging position.

To facilitate the running of a car upon the ways, I preferably provide them with inclines 11, at each end. These inclines are also preferably channel shape in cross sec-

tion and are secured to the ends of the ways by hinges 12. The inclines 11 are automatically lifted by the car upon the ways through lifting treads preferably consisting of a pair of plates or members 13, which are pivotally mounted at their inner ends upon an inwardly-projecting pivot arm 14, carried by the lifting lever 15, the lifting lever being pivoted at 16 upon the sides of the ways and connected to the incline by a pin and slot or other suitable slip connections—see Fig. 2, the lever being slotted at 17 to engage the pin 18 on the incline. The inclines are preferably held normally downward by means of the springs 20 which are secured to the under sides of the ways 1 and connected to the incline through pin and slot or other suitable slip connections, the springs being provided with slots 21 to receive the pins 22 on the inclines. The inclines are thus automatically lifted by the car upon the ways, and when the car is run off, they automatically assume their operative position.

My improved turntable is very simple and economical in structure, and is very convenient in use. It is readily portable so that it can be moved about from place to place in a garage, display room, warehouse, or other place where it is desired for use. It is also adapted for use as a vehicle truck for storage or display purposes. To more completely adapt the same as a truck, I preferably provide the wheels 4 with bearings 23 which are eccentrically arranged upon the axle 5 so that the wheels 4 may be thrown out of operative position, the body then being carried entirely by the caster wheels. Set screws 24 are provided for securing the bearings in their adjusted positions upon the axle.

I have illustrated and described my improved turntable in detail, in a form in which I have embodied it. I am, however, aware that it is capable of very great variation in structural details without departing from my invention, and I wish to be understood as not only claiming the same specifically, as illustrated, but broadly as well within the scope of the appended claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In a turntable, the combination of a pair of channel ways; a pair of central wheels, the axes of said wheels being arranged at right angles to said ways; means for shifting said central wheels to an inoperative position; a brake for said wheels; a central pivot; and a plurality of caster wheels located toward the ends of said ways.

2. In a turntable, the combination of a pair of channel ways; a pair of central wheels, the axes of said wheels being arranged at right angles of said ways; a brake for said wheels; a central pivot; and a plu-

rality of caster wheels located toward the ends of said ways.

3. In a turntable, the combination of a pair of channel ways; a pair of central wheels, the axes of said wheels being arranged at right angles to said ways; means for shifting said central wheels to an inoperative position; a central pivot; and a plurality of caster wheels located toward the ends of said ways.

4. In a turntable, the combination of a pair of channel ways; a pair of central wheels, the axes of said wheels being arranged at right angles to said ways; a central pivot; and a plurality of caster wheels located toward the ends of said ways.

5. In a turntable, the combination of a pair of channel ways; a pair of central wheels, the axes of said wheels being arranged at right angles to said ways; means for shifting said central wheels to an inoperative position; a brake for said wheels; and a plurality of caster wheels located toward the ends of said ways.

6. In a turntable, the combination of a pair of channel ways; a pair of central wheels, the axes of said wheels being arranged at right angles to said ways; a brake for said wheels; and a plurality of caster wheels located toward the ends of said ways.

7. In a turntable, the combination of a pair of channel ways; a pair of central wheels, the axes of said wheels being arranged at right angles to said ways; means for shifting said wheels to an inoperative position; and a plurality of caster wheels located toward the ends of said ways.

8. In a turntable, the combination of a pair of channel ways; a pair of central wheels, the axes of said wheels being arranged at right angles to said ways; and a plurality of caster wheels located toward the ends of said ways.

9. In a turntable, the combination of a pair of ways; wheels comprising a pair of central wheels, the axes of said wheels being arranged at right angles to said ways; a brake for said wheels; and a central pivot.

10. In a turntable, the combination of a pair of ways; wheels comprising a pair of central wheels, the axes of said wheels being arranged at right angles to said ways; and a brake for said wheels.

11. In a turntable, the combination of a pair of channel ways; carrying wheels therefor; pivoted inclines at the ends of said ways and treads for said inclines where they are automatically actuated.

12. In a turntable, the combination with the body, of a pair of central wheels; means for shifting said central wheels to an inoperative position; a brake for said central wheels; a central pivot; and a plurality of radially arranged wheels.

13. In a turntable, the combination with

the body, of a pair of central wheels; a brake for said central wheels; a central wheels; and a plurality of radially arranged wheels.

5 14. In a turntable, the combination with the body, of a pair of central wheels; means for shifting said central wheels to an in-
operative position; a brake for said central
10 wheels; and a plurality of radially arranged wheels.

15 15. In a turntable, the combination with the body, of a pair of central wheels; a brake for said central wheels; and a plurality of radially arranged wheels.

16. In a turntable, the combination with the body, of a pair of central wheels; means for shifting said central wheels to an in-
operative position; a central pivot; and a
20 plurality of radially-arranged wheels.

17. In a turntable, the combination with a pair of channel ways; pivoted inclines at the ends of said ways; and lifting treads for said inclines arranged in said ways.

18. In a turntable, the combination with a pair of channel ways; pivoted inclines at the ends of said ways; lifting levers for said inclines pivoted on said ways; lifting treads arranged in said ways, each tread comprising a pair of oppositely-arranged plates pivoted on said levers; and springs for holding said inclines normally downward.

19. In a turntable, the combination with a pair of channel ways; pivoted inclines at the ends of said ways; lifting levers for said inclines pivoted on said ways; and lifting treads arranged in said ways, each tread comprising a pair of oppositely-arranged plates pivoted on said levers.

20. In a turntable, the combination with the body, of pivoted inclines; lifting treads

for said inclines; a pair of central wheels; the axes of which are arranged at right angles to said body; a brake for said central wheels; and a plurality of radially-arranged wheels located toward the ends of said body. 45

21. In a turntable, the combination with the body, of pivoted inclines; lifting treads for said inclines; a pair of central wheels, the axes of which are arranged at right angles to said body; a central pivot; and a plurality of radially-arranged wheels located toward the ends of said body. 50

22. In a turntable, the combination with the body, of pivoted inclines; lifting treads for said inclines; a pair of central wheels, the axes of which are arranged at right angles to said body; a brake for said central wheels; and a central pivot. 55

23. In a turntable, the combination with the body of pivoted inclines; lifting treads for said inclines; a pair of central wheels, the axes of which are arranged at right angles to said body; and a brake for said central wheels. 60

24. In a turntable, the combination with the body, of pivoted inclines; lifting treads for said inclines; a pair of central wheels, the axes of which are arranged at right angles to said body; and a central pivot. 65

25. In a turntable, the combination with the body, of pivoted inclines; lifting treads for said inclines; and caster wheels for said body. 70

In witness whereof, I have hereunto set my hand and seal in the presence of two witnesses. 75

HOLLY M. VERPLANCK. [L. s.]

Witnesses:

J. F. NEWMAN,
M. MAY MATE.