No. 749,724. PATENTED JAN. 19, 1904.

S. ELLIOTT.

TURN TABLE.

APPLICATION FILED JUNE 3, 1903.

NO MODEL. 2 SHEETS—SHEET 1.

Fig. 1.

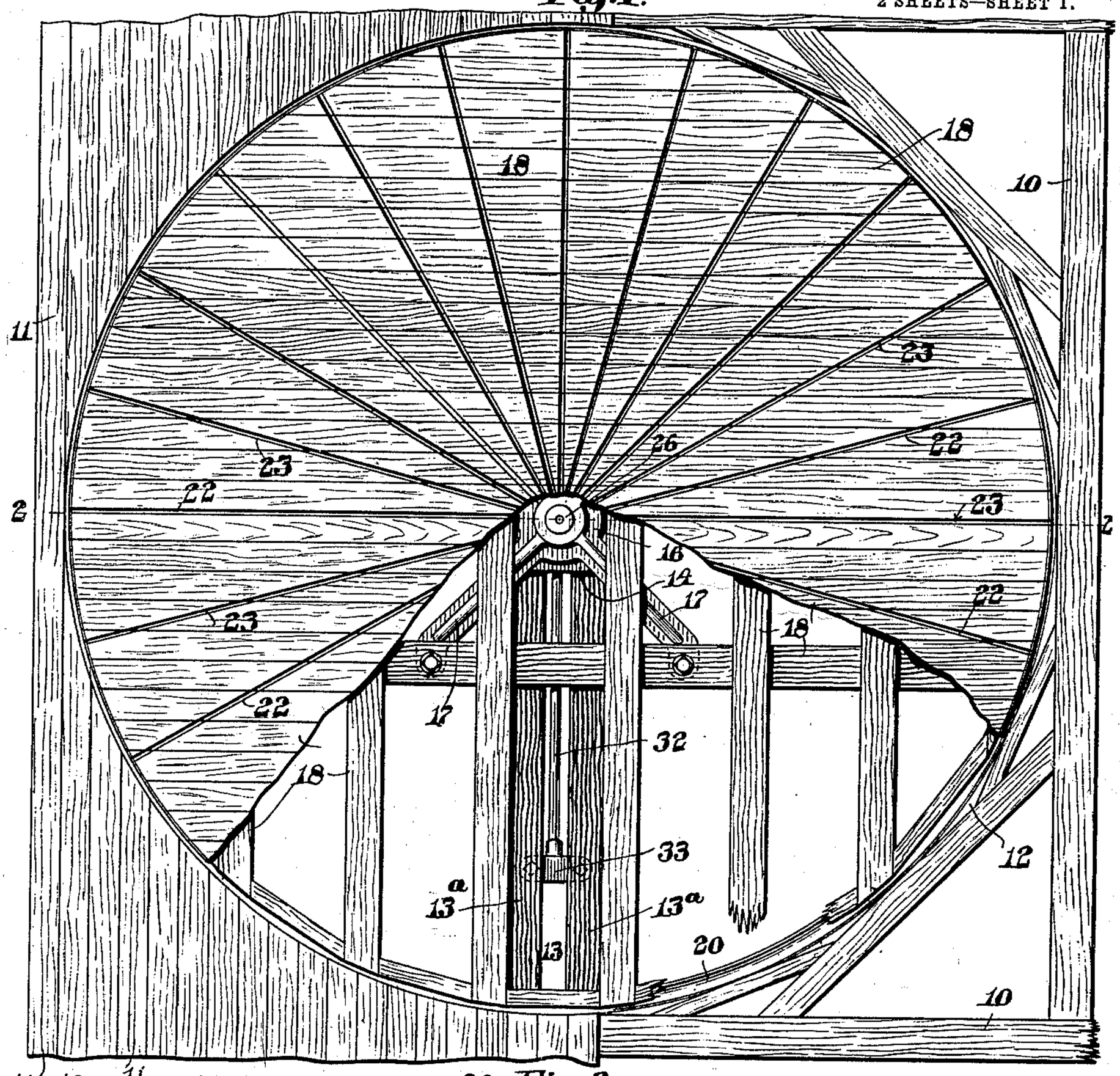


Fig. 2.

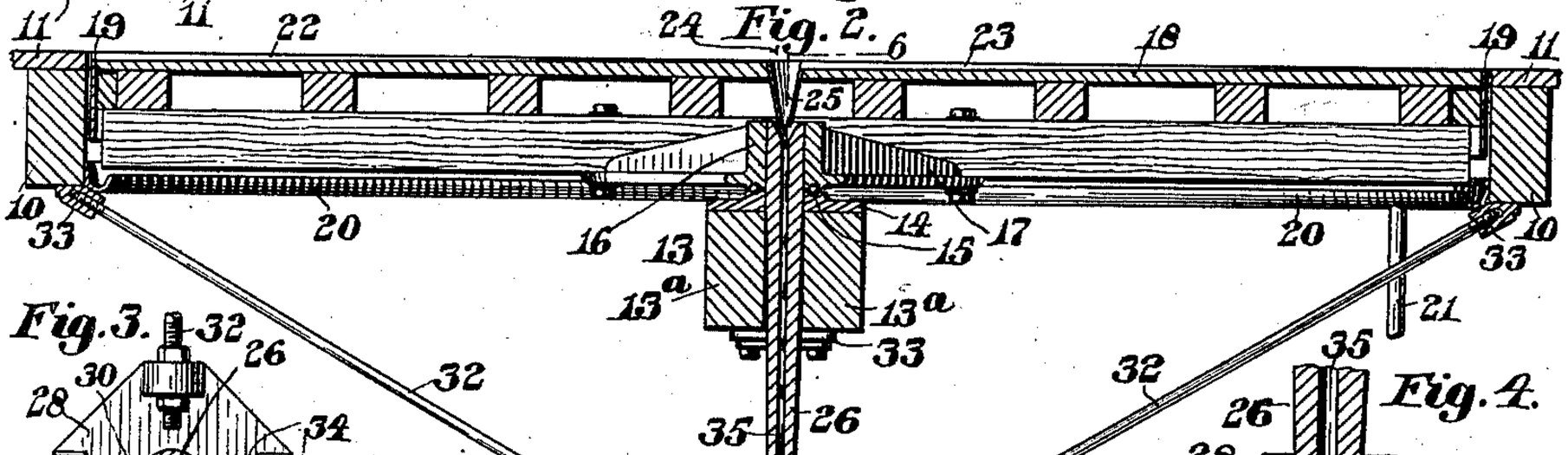


Fig. 3.

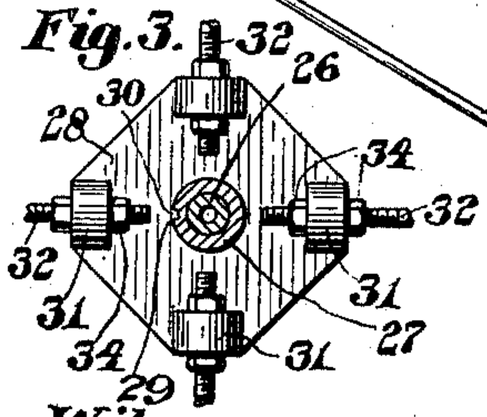


Fig. 5.

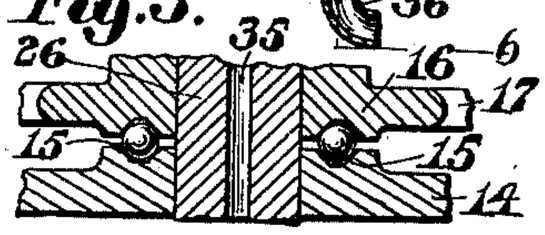
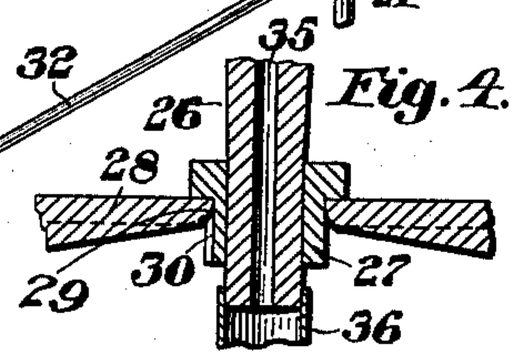


Fig. 4.



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No. 749,724. PATENTED JAN. 19, 1904.

S. ELLIOTT.

TURN TABLE.

APPLICATION FILED JUNE 3, 1903.

NO MODEL. 2 SHEETS—SHEET 2.

Fig. 6.

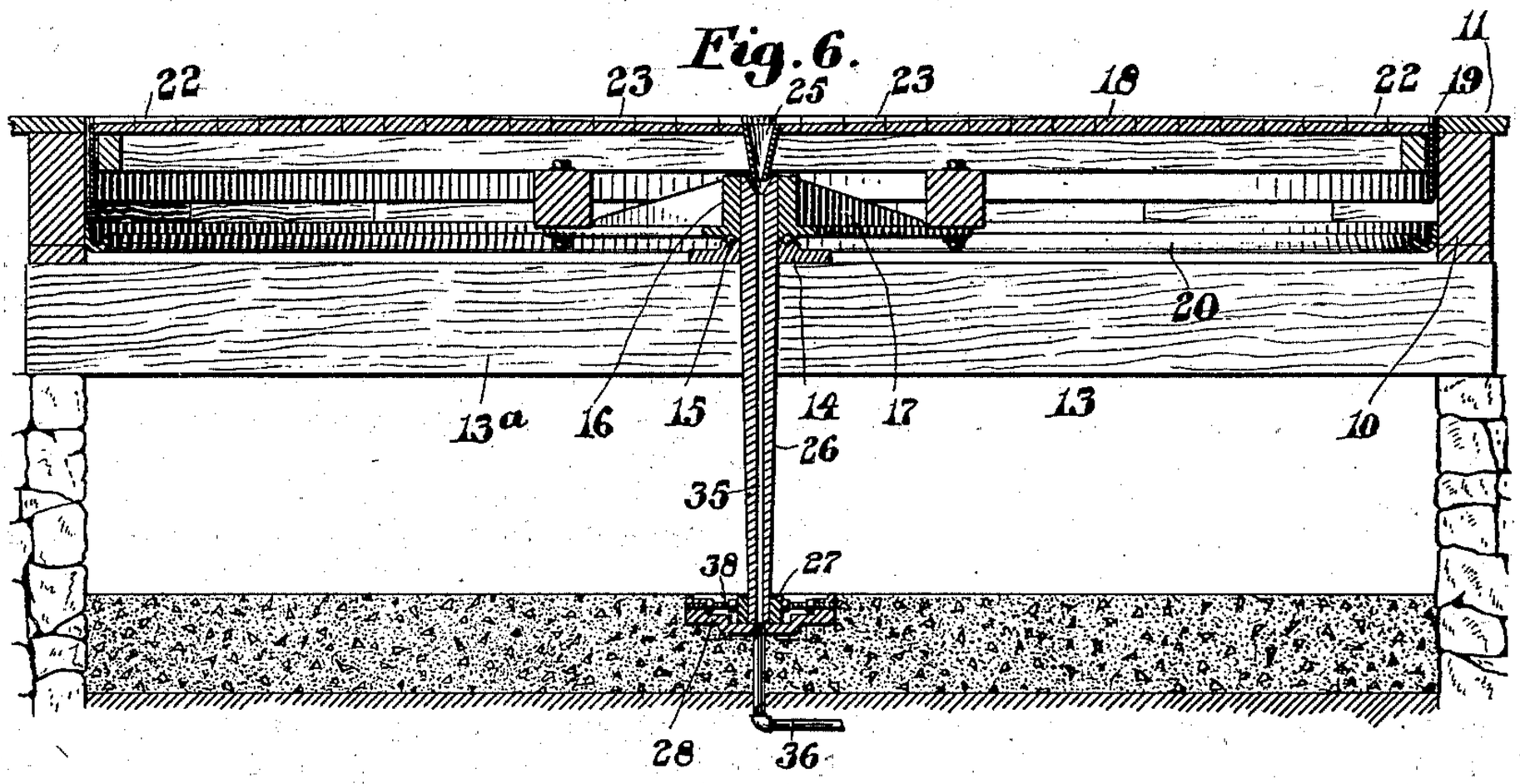


Fig. 7.

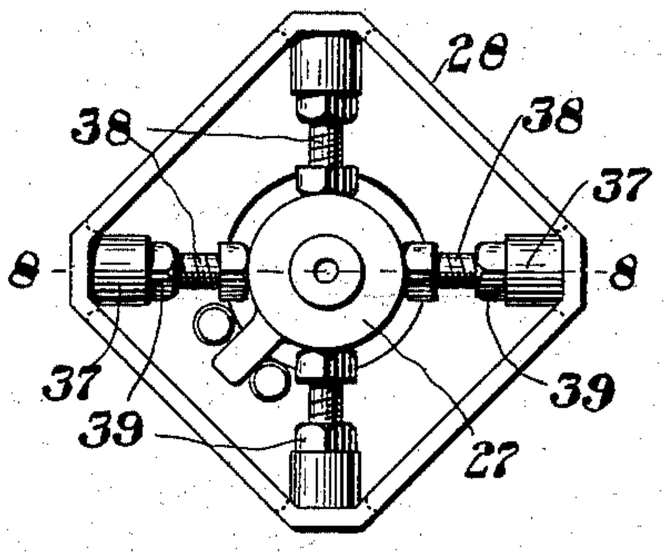
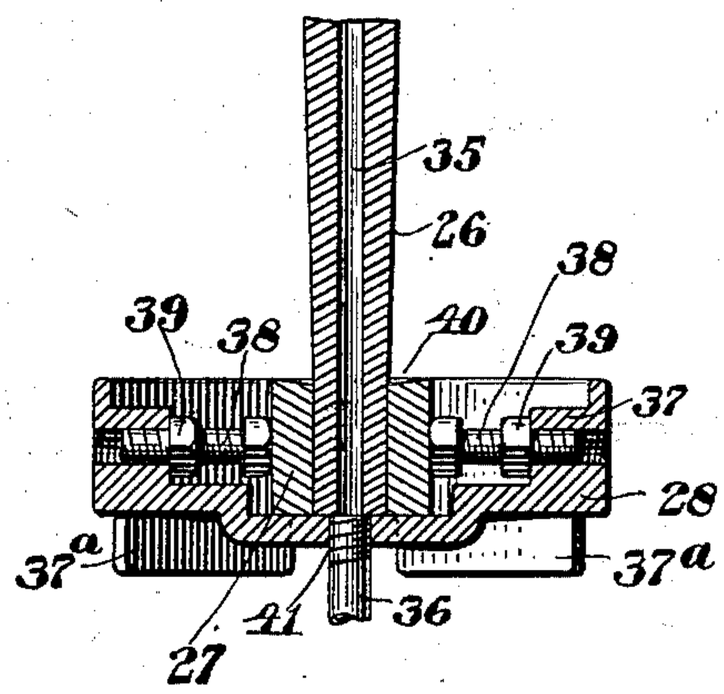


Fig. 8.



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No. 749,724. Patented January 19, 1904.

UNITED STATES PATENT OFFICE.

STERLING ELLIOTT, OF NEWTON, MASSACHUSETTS.

TURN-TABLE.

SPECIFICATION forming part of Letters Patent No. 749,724, dated January 19, 1904.

Application filed June 3, 1903. Serial No. 159,901. (No model.)

To all whom it may concern:

Be it known that I, STERLING ELLIOTT, a citizen of the United States of America, and a resident of Newton, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Turn-Tables, of which the following is a specification.

This invention relates to turn-tables, and particularly to that class of turn-tables which are used in connection with automobiles or similar vehicles; and it consists in certain novel features of construction and arrangement of parts, which will be readily understood by reference to the description of the drawings and to the claims to be hereinafter given.

Of the drawings, Figure 1 represents a plan view of a turn-table embodying the features of this invention, a portion of the flooring thereof being broken away to show the framework. Fig. 2 represents a vertical transverse section on line 2 2 on Fig. 1. Fig. 3 represents a plan, somewhat enlarged, of the bearing and support for the lower end of the center pintle. Fig. 4 represents a section of the lower end of the center pintle, its bearing, and a portion of the support, drawn to a large scale. Fig. 5 represents a detail in section of the center support, also drawn to an enlarged scale. Fig. 6 represents a vertical transverse section on line 6 6 on Fig. 2, showing a modified form of the lower support for the center pintle. Fig. 7 represents a plan view of said modified form of support, drawn to an enlarged scale; and Fig. 8 represents a section of the same on line 8 8 on Fig. 7.

Similar characters designate like parts throughout the several figures of the drawings.

In the drawings, 10 represents a framework of the floor of a suitable house for the storage of vehicles, this framework being covered by boards 11 and being provided with a circular opening 12. A suitable diametrical support 13 is secured to the under side of the framework 10. This diametrical support, as shown in the drawings, consists of a pair of parallel cross-beams 13^a 13^a. At the center of the opening 12 is a base-plate 14, secured upon said cross-beams, this base-plate being provided with suitable grooves or ways in which are mounted a series of antifriction members 15. Above these antifriction members and resting thereon is a top plate 16, provided with radial arms 17, to which is secured the platform 18.

The platform 18 is provided with a depending rim 19, beneath which and secured to the framework 10 is an annular gutter or trough 20, provided with an outlet-pipe 21, which is adapted to carry away the contents of said gutter to any suitable receptacle. The upper surface of the platform 18 is provided with two series of radial grooves, one series 22 inclining toward the outer edge of said platform 18, allowing the water or other liquid on the surface to be carried down the incline of said grooves to the rim 19, down which it passes to be caught by the trough 20, from which it may be carried to any convenient point by means of the pipe 21. Another series of grooves 23 converges at the center of the platform 18 and communicates with an opening 24, having a downwardly-projecting spout 25. Beneath the spout 25 is a center pintle 26, forming a part of or firmly secured in the top plate 16, the lower end of which is mounted in a bearing 27 in a supporting-plate 28. The bearing 27 is prevented from turning in said support 28 by means of a spline 29 and groove 30, the support 28, however, being so constructed that said bearing may be readily adjusted therein to vary the inclination of the axis of said pintle 26 as desired.

The support 28 is provided with a series of lugs 31, into which project stay-rods or braces 32, the opposite ends of which are screwed into bearings 33, secured to the under side of the framework 10. On either side of the lugs 31 are adjusting-nuts 34, by which the position of the support 28 may be readily adjusted, thereby varying the inclination of the center pintle 26 when desired. This adjustment is very convenient for the original setting up of the turn-table, so that its upper surface may be in the same plane with the upper surface of the surrounding floor. It is also of great convenience when the floor itself commences to settle at one side more than the other, it being obvious that by a simple ad-

justment of the nuts 34 the inclination of the center pintle 26 may be varied, so that the upper surface of the platform 18 will be made to accommodate itself to the changed conditions of the surrounding floor.

Through the center pintle 26 is a passage 35, the upper end of which communicates with the depending spout 25 at the center of the platform 18, while the lower end communicates with a suitable pipe 36, this passage 35 being for the purpose of draining any water or other liquid which may be directed thereto by means of the radial grooves 23, the pipe 36 carrying away any liquid passing through said passage 35.

It is obvious that all of the weight of the platform is supported upon the center bearings 14 and 16, between which are interposed suitable antifriction members, this arrangement making the turn-table more easily operated than is the case where the turn-table is mounted upon a large number of antifriction members or rollers near its outer edge, as is usually the case. The small diameter of the center support decreases the number of antifriction members necessary to operate the turn-table, and as a consequence lessens the friction. This is made possible by means of the present construction, in which a long depending center pintle is used having a lower bearing suitably braced to the surrounding framework, thereby preventing any tilting of the platform when a heavy vehicle passes from the surrounding floor to the outer surface of said platform.

The adjustability of the various features making the whole device easy to set up and readily changed to meet new conditions caused by a settling of a portion of the flooring is another important feature of this invention. Moreover, the construction shown provides a very convenient platform for washing and cleaning the vehicles, suitable arrangements having been provided to thoroughly drain the platform and carry off the waste to the sewer or any other convenient receptacle.

In some cases it may be preferred to support the lower end of the center pintle in the manner shown in Fig. 6. By this means the braces 32 are entirely dispensed with, inasmuch as the supporting-plate 28 is made of a peculiar shape and is embedded in concrete or other material in position below the center of the platform 18, wings 37^a thereon firmly fixing said plate in position.

In lugs 37 are mounted adjusting-screws 38, the heads of which bear against the lower bearing 27 of the center pintle 26. By the adjustment of the screws 38 it is obvious that the position of the bearing 27 and the axis of the center pintle 26 may be readily adjusted, the screws 38 being held in adjusted position by means of check-nuts 39.

The upper end of a bearing 27 is cupped out, as at 40, for the purpose of collecting oil and feeding it to the bearing-surface of said bearing 27 to thoroughly lubricate the shaft.

The modified form of the supporting-plate 28 is provided with a central opening 41, communicating with a pipe 36, by which the platform 18 may be drained through the passage 35 in the center pintle 26, the pipe 36 leading to a sewer or any other convenient receptacle.

Having thus described my invention, I claim—

1. In a turn-table, the combination of a platform, a center support therefor, a center pintle to register said platform, stay-rods for the lower end of said pintle, and means for adjusting the position of said rods.

2. In a turn-table, the combination of a platform, a center support therefor, a center pintle to register said platform, a bearing for the lower end of said pintle, and means for adjusting the position of said bearing.

3. In a turn-table, the combination of a platform, a center support therefor, a center pintle to register said platform, a bearing for the lower end of said pintle, a support for said bearing arranged to permit a variation in the axis thereof, and means for adjusting the position of said support.

4. In a turn-table, the combination of a revoluble platform, a depending rim from said platform, and a trough beneath said depending rim.

5. In a turn-table, the combination of a platform, a center support therefor, mechanism supporting said platform and upon which it may be revolved about said center support, and a trough under the edge of said platform.

6. In a turn-table, the combination of a revoluble platform, a center support therefor, a center pintle to register said platform, a hole in the center pintle adapted to drain the platform, and means for supporting and bracing the lower end of said center pintle.

7. In a turn-table, the combination of a revoluble platform, a depending rim from said platform, a trough beneath said depending rim, and grooves in the upper surface of said platform inclining toward the edge thereof.

8. In a turn-table, the combination of a revoluble platform, a center support therefor, a center pintle to register said platform, a hole in the center pintle adapted to drain the platform, radial grooves in the upper surface of said platform inclining toward a central hole therein, and an adjustable support for the lower end of said center pintle.

9. In a turn-table, the combination of a revoluble platform, a depending rim therefrom, a trough beneath said depending rim, a center pintle to register said platform, a hole in the center pintle adapted to drain the platform, and two series of radial grooves in the upper surface of said platform, one series inclined

toward a central hole therein and the other toward the edge thereof.

10. In a turn-table, the combination of a revoluble platform, a framework surrounding said platform, a pair of parallel cross-beams secured to said framework, a center pintle, a base-plate of small diameter about said pintle secured to said cross-beams, and a series of antifriction members interposed between said base-plate and said platform.

11. In a turn-table, the combination of a revoluble platform, a framework surrounding said platform, a pair of parallel cross-beams secured to said framework, a center pintle secured to said framework to register said platform, and a series of antifriction supporting members for said platform mounted upon said cross-beams about said pintle and in close proximity thereto.

12. In a turn-table, the combination of a revoluble platform, a framework surrounding said platform, a diametrical support secured to said framework, a base-plate of small diameter mounted upon said diametrical support beneath the center of said platform, and antifriction members interposed between said platform and said base-plate.

13. In a turn-table, the combination of a revoluble platform, a framework surrounding said platform, a diametrical support secured to said framework, a center plate for said platform mounted upon said diametrical support, antifriction members interposed between said plate and platform, a center pintle to register said platform, and means for supporting the lower end of said center pintle secured to said surrounding framework.

14. In a turn-table, the combination of a revoluble platform, a framework surrounding said platform, a diametrical support secured to said framework, a center plate for said platform mounted upon said diametrical support, antifriction members interposed between said plate and said platform, a center pintle to register said platform, a bearing for the lower end of said pintle, and means for adjusting the position of said bearing.

15. In a turn-table, the combination of a revoluble platform, a center support therefor, a framework surrounding said platform, a center pintle to register said platform and secured to said framework, and a bearing for the upper end of said pintle secured to the under side of said platform.

16. In a turn-table, the combination of a revoluble platform, a framework surrounding said platform, a center pintle to register said platform, a bearing for the lower end of said pintle, a support for said bearing arranged to permit a variation in the axis of said bearing, and means for adjusting the position of said support.

Signed by me at Boston, Massachusetts, this 11th day of May, 1903.

STERLING ELLIOTT.

Witnesses:

WALTER E. LOMBARD,

JOSIAH E. REID.