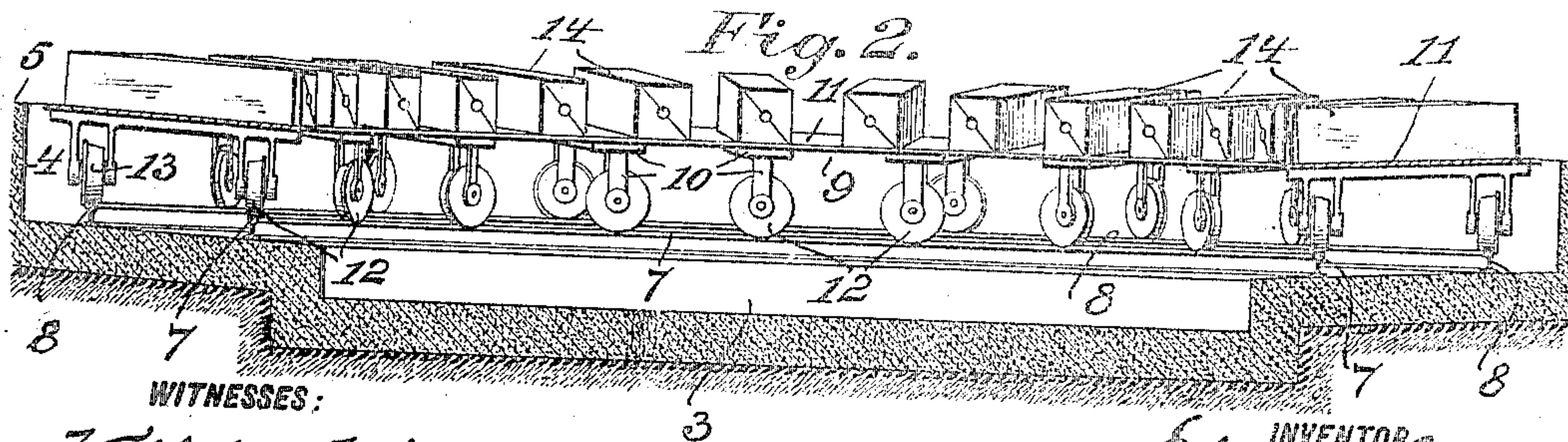
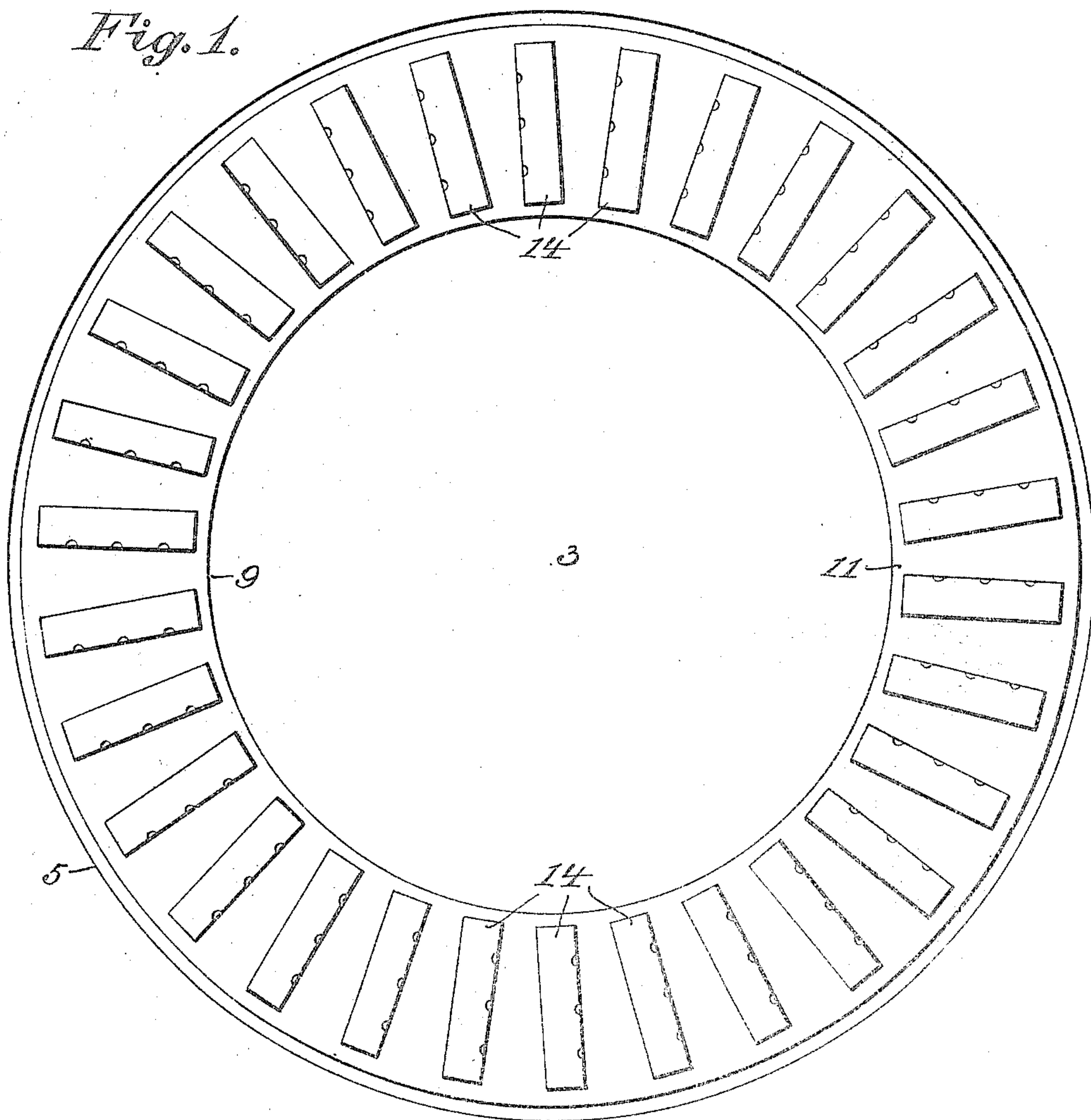


No. 898,191.

PATENTED SEPT. 8, 1908.

E. A. CUSTER.
MOLD CARRYING TURN TABLE.
APPLICATION FILED MAR. 4, 1908.

Fig. 1.



WITNESSES:

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MOLD-CARRYING TURN-TABLE.

No. 898,191.

Specification of Letters Patent.

Patented Sept. 8, 1908.

Application filed March 4, 1908. Serial No. 419,142.

To all whom it may concern:

Be it known that I, EDGAR ALAN CUSTER, a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Mold-Carrying Turn-Tables, of which the following is a specification.

My invention has relation to a mold carrying turntable mounted upon rails at different heights with respect to each other and in which the table is counterbalanced or poised and travels by suitable impelling means, without a center pivot or support for the table; and in such connection my invention relates to the constructive arrangement of the table for the defined use, for particularly employment in the casting of soil, water and other pipe according to the system as set out or described and claimed in United States Letters Patent No. 870,817, granted to me, under date of November 12th, 1907.

The principal objects of my invention are first, to so arrange the supporting means of the table that the same will occupy positions on the surface of an imaginary cone, and thus forcing the table to assume the form of a truncated cone; second to produce by said arrangement a tendency to maintain the table in one position with respect to its center, and to thus resist any force tending to move it from such position; and third to permit the weight of the table and molds carried by the same to assist in maintaining the table in a fixed position around the central axis of its support.

My invention consists of a turntable constructively arranged in substantially the manner hereinafter fully described and then claimed.

The nature and scope of my present invention will be more fully understood from the following description taken in connection with the accompanying drawings forming part hereof, in which

Figure 1 is a top or plan view of a mold carrying turntable, embodying the main features of my present invention; and Fig. 2 is a central sectional view thereof, showing the detail arrangement of the same.

Referring to the drawings 3, is a circular concrete or other material pit having a surrounding wall 4 and walk 5. Near the wall 4, of the pit are located tracks 7 and 8, the outer one 8 being preferably perched higher than the inner one 7, within the pit 3.

9 is a turntable consisting of a circular skeleton frame 10, provided with a platform 11, and beneath which frame 10, is journaled at suitable distances apart single flanged or unflanged wheels 12 and 13, engaging respectively, the tracks 7 and 8. Upon the platform 11, are mounted a series of two-part molds, at proper distances apart, to permit of the opening and closing of the same. These molds 14, occupy a radial position with respect to the center of the table. The turntable is balanced or poised, without a central support, by simply the weight of the table and molds carried thereby, and is adapted to be manipulated by impelling means. The table travels in a circular course and whether the copes are parted from the drags of the molds of the table or not, the poised position of the table is such, as to permit of an easy and noiseless movement thereof, without the aid of central pivotal supporting means for poising or balancing the same. The table being maintained in fixed operative position entirely by the tracks arranged one above the other, that is, at different elevations, and which may be either the inner track or the outer track of the pair, and upon and over which the table is adapted to travel supporting and carrying the series of hinged molds 14, for the purposes described.

The construction of the table is such that the platform and wheels thereof are arranged in parallel planes so that when the table is placed on the rails occupying position at different elevations the weight forces it into the shape of a truncated cone to produce thereby a tendency to always maintain such table in one position with respect to the center of its support; and moreover, to resist by this arrangement any force which tends to move the table out of such position. The weight of the table and of the molds carried by the same due to the truncated shape of the table assumed will aid in maintaining the table in a fixed position around the central axis of the support thereof.

Although the drawings show the table as assuming the shape of an inverted truncated cone it will be understood if the outer rails were placed lower than the inner rails that the table in such instance would assume the shape of a right truncated cone with in practice the same results obtained as a self centering table. The preferred arrangement however, of the table, is as shown, because adding strength thereto.

Having thus described the nature and objects of my invention what I claim as new and desire to secure by Letters Patent is:—

1. In combination, rails arranged at different heights with respect to each other and a turntable adapted to travel over said rails and said table poised or balanced without a central pivotal support, substantially as and for the purposes described.
2. In combination, rails arranged at different elevations with respect to each other and a turntable adapted to travel over said rails and carrying a series of opening and closing molds, and said table poised or balanced, without a pivotal support, substantially as and for the purposes described.
3. In combination, rails arranged at different elevations with respect to each other, a turntable provided with single flanged wheels adapted to travel over said rails and the only means of poising or balancing the table on the rails, and hinged molds arranged, in series, on said table, substantially as and for the purposes described.
4. In combination, rails arranged at different elevations with respect to each other and a turntable provided with a platform and wheels in parallel planes adapted to force the table to assume in operative position the form of a truncated cone.
5. In combination, rails arranged at different elevations with respect to each other and a turntable constructively arranged for operation in the form of a truncated cone and

provided with wheels adapted to engage said rails and said rails and wheels holding said table in a fixed operative position with respect to their central vertical axis.

6. In combination, with rails at different elevations, a truncated cone turntable provided with wheels adapted to engage said rails, the construction and arrangement being such that the table is maintained in a fixed operative position with respect to the center of the support thereof.

7. In combination, rails, a turntable of a truncated cone shape, wheels connected with said table for supporting and permitting of the movement of the same over said rails, molds carried by said table, said molds adapted to aid the table in maintaining a central position with respect to said rails.

8. In combination, rails, a turntable of truncated cone shape and provided with wheels for supporting and permitting of the movement of the same over said rails and molds carried by said table, the truncated shape of said table and molds adapted to resist force tending to move the same out of the fixed operative position with respect to the center of said rails.

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

EDGAR ALAN CUSTER.

Witnesses:

J. WALTER DOUGLAS,
THOMAS M. SMITH.