

J. I. Kinsey.

Turn Table.

N^o 51, 192.

Patented Nov. 28, 1865.

Fig. 3

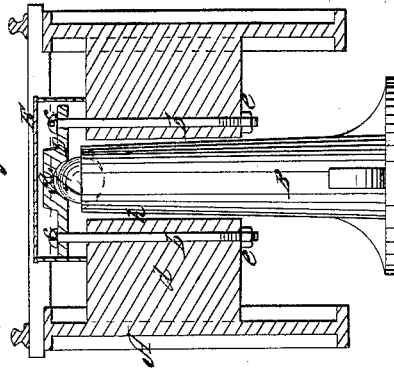


Fig. 4

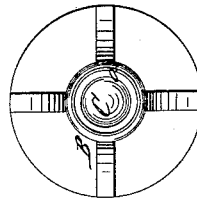


Fig. 1

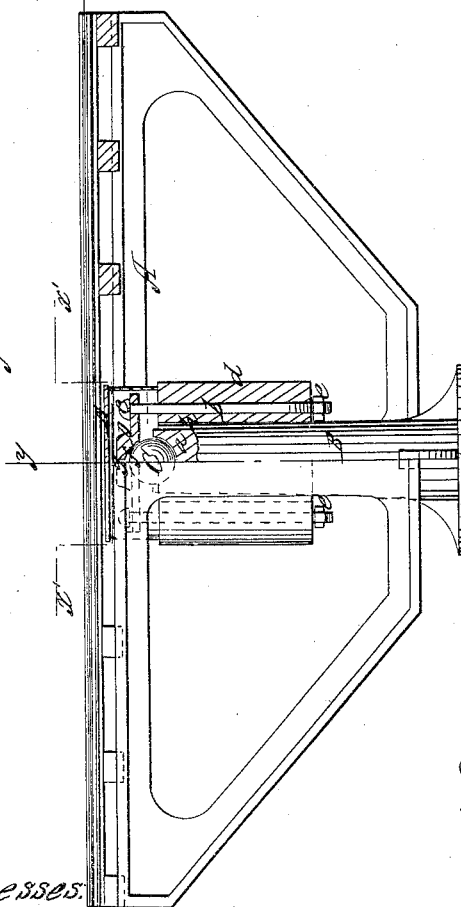
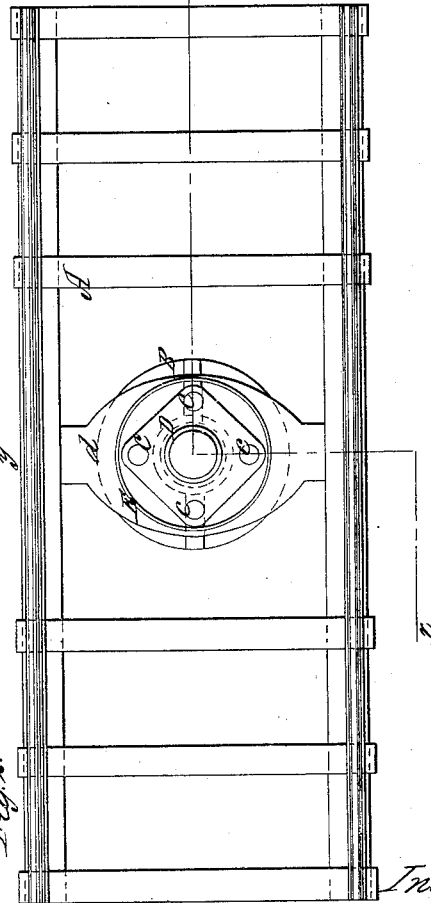


Fig. 2



Witnesses
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UNITED STATES PATENT OFFICE.

J. I. KINSEY, OF SOUTH EASTON, PENNSYLVANIA.

IMPROVED RAILROAD TURN-TABLE.

Specification forming part of Letters Patent No. 51,192, dated November 28, 1865.

To all whom it may concern:

Be it known that I, J. I. KINSEY, of South Easton, in the county of Northampton and State of Pennsylvania, have invented a new and Improved Turn-Table for Railroads; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side sectional view of my invention, taken in the line *xx*, Fig. 2; Fig. 2, a plan or top view of the same, partly in section, as indicated by the line *x' x'* Fig. 1; Fig. 3, a transverse vertical section of the same, taken in the line *yy*, Fig. 1; Fig. 4, a detached plan or top view of the standard and socket and ball pertaining to the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new and improved manner of pivoting turn-tables for railroads, whereby the former are allowed to turn with but little friction and the pivot kept in a proper lubricated state at all times.

The pivot consists of a ball and socket, the latter being composed of two parts, and the lower portion made in the upper end of a fixed standard, the upper part of the socket being in a metal plate connected by rods to the standard, and all arranged and covered by a cap, as hereinafter fully shown and described.

A represents the turn-table, which may be constructed substantially in the usual way, and B is a fixed standard on which the table turns. In the upper end of the standard B there is made a semispherical cavity, *a*. This cavity may be directly in the post, or in a cast-iron or composition plate or block attached to the post. This cavity *a* receives a ball, C, of any suitable metal or composition. (See Figs. 1, 3, and 4.)

D represents a cast-iron or composition plate, which may be of rectangular form, and has a rod, *b*, passing through it near each corner or

angle, said rods having heads *c* at their upper ends. These rods *b* pass down through a heavy cross-piece, *d*, of the framing of the turn-table, and have screw-nuts *e* on their lower ends. The plate D is provided with a cavity, *f*, in the form of a portion of a sphere, and the upper part of the ball C is fitted in said cavity, and in the center of plate D there is made a small aperture, *g*, through which oil is admitted to the ball.

E represents a cap, which rests on the cross-piece *d* and covers the plate D, effectually preventing the admission of dust to the ball and socket. The cross-piece *d* has an opening, *h*, made in it vertically to admit of the standard B passing through it; and it will be seen from the above description that the turn-table is made to rest or bear upon the ball C through the medium of the plate D. By means of this pivot or ball and socket the turn-table is allowed to turn with but little friction, and it is steadied or kept in position by the cross-piece *d* and standard B, the former fitting over the latter; and it will further be seen that by pouring a little oil in the aperture *g* the oil will come in contact with the ball and pass down around the same and enter the cavity *a*, the ball, when the table is being turned, rolling or turning, and having a tendency thereby to lubricate all portions of the socket as well as itself.

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

1. A turn-table for railroads, provided with a ball-and-socket pivot, substantially as set forth.

2. The combination of the plate D, standard B, and cross-piece *d* with the ball C, substantially as and for the purpose specified.

3. The cap E, when used in connection with and applied to the ball-and-socket pivot of a turn-table, substantially as and for the purpose specified.

J. I. KINSEY.

Witnesses:

WILLIAM H. CHESTON,
HENRY C. ASHMORE.