(No Model.)

E. SAMUEL.

CENTER BEARING FOR TURN TABLES.

No. 349,956. Patented Sept. 28, 1886.

FIG. 1.

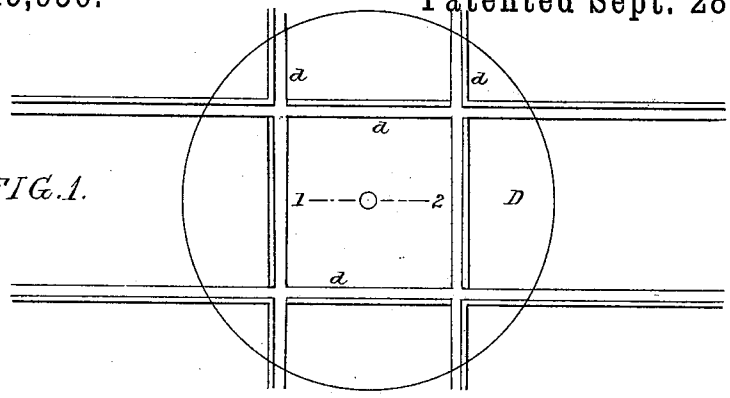


FIG. 3.

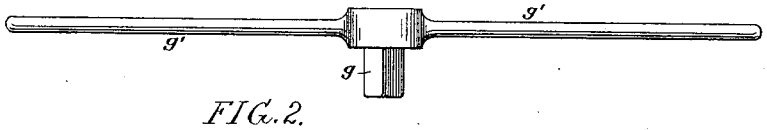


FIG. 2.

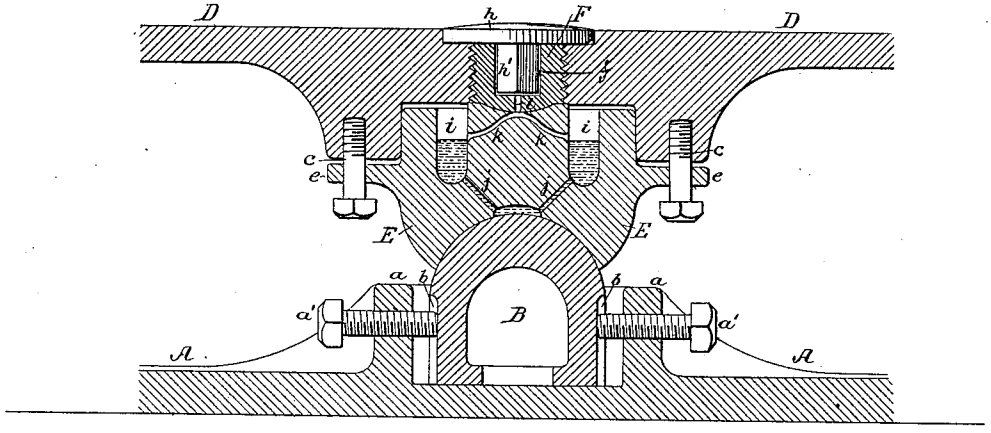


FIG. 5.

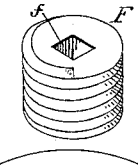


FIG. 4.

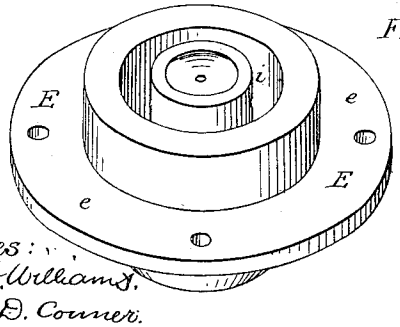
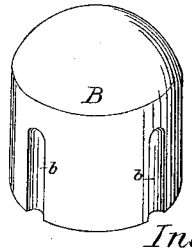


FIG. 6.



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UNITED STATES PATENT OFFICE.

EDWARD SAMUEL, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO WILLIAM WHARTON, JR., & CO., (LIMITED,) OF SAME PLACE.

CENTER BEARING FOR TURN-TABLES.

SPECIFICATION forming part of Letters Patent No. 349,956, dated September 28, 1886.

Application filed June 28, 1886. Serial No. 206,480. (No model.)

To all whom it may concern:

Be it known that I, EDWARD SAMUEL, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Center Bearings for Turn-Tables, of which the following is a specification.

My invention relates to improvements in center bearings for turn-tables, more particularly for street-railways, the object of my invention being, first, to do away with the usual projecting set-screw in the center; second, to provide for the ready application of oil to the wearing parts.

In the accompanying drawings, Figure 1 is a plan view of the turn-table. Fig. 2 is an enlarged section on the line 1 2, Fig. 1. Fig. 3 is a view of the screw-key for adjusting the height of the table, and Figs. 4, 5, and 6 are detached perspective views of parts of the device.

A is the base-plate, having an annular rib, *a*, through which pass adjusting-screws *a'*, for centering the pivot-block B, the top of which is hemispherical. In the sides are vertical grooves *b*, for the reception of the ends of the set-screws *a'*, to prevent the block from turning.

D is the turn-table, in the present instance a casting, on which are either formed or secured the rails *d*.

On the under side of the turn-table D is a block, E, which is secured to the table D, so as turn with it, and yet allow the table to have a limited vertical movement independent of the block. In the bottom of the block is a socket for the reception of the hemispherical pivot-head B, forming, in fact, a universal joint. Pins *c* are secured to the under side of the table D, and pass through holes in the annular flange *e* of the block E, these pins being preferably headed, as shown in Fig. 2.

In a threaded orifice in the center of the turn-table D is a screw-plug, F, adapted to the threads in the orifice. This plug rests directly on the block E, and has in the present instance a square socket, *f*, in which fits a square screw-key, *g*, having suitable handles, *g'*, Fig. 3. By turning the screw-plug F by means of the key the turn-table may be raised from or lowered toward the block E. When the key *g* is removed, a flat disk, *h*, having an extension, *h'*, closes the socket in the plug F, and extends over the plug and is flush with the top of the table D, thus preventing any street dirt or dust from gaining access to the interior of the bearing.

I utilize the center plug, F, and block E as oil-receptacles. I form in the block E an annular chamber, *i*, which is connected by passages *j* with the ball-and-socket bearing shown in Fig. 2. This chamber *i* is filled with oil through passages *k k* in the block E and through the socket *f* and a small passage, *l*, in the screw-plug F, so that on removing the disk *h* oil may be poured into the socket *f*, the oil finding its way into the chamber *i* through the passages *k*, and thence to the bearing.

I claim as my invention—

1. The combination of the bearing-block B, table D, and block E, attached to the table, with a screw-plug, F, within and completely below the surface of the table D, and adapted to be turned by a key, substantially as set forth.

2. The combination of the bearing-block B and table D with block E, having an annular oil-chamber, *i*, and a plug, F, having a socket and passages in the plug, and block E, connecting the said socket with the top of the bearing-block, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWD. SAMUEL.

Witnesses:
HENRY D. WHELDON,
HARRY SMITH.