

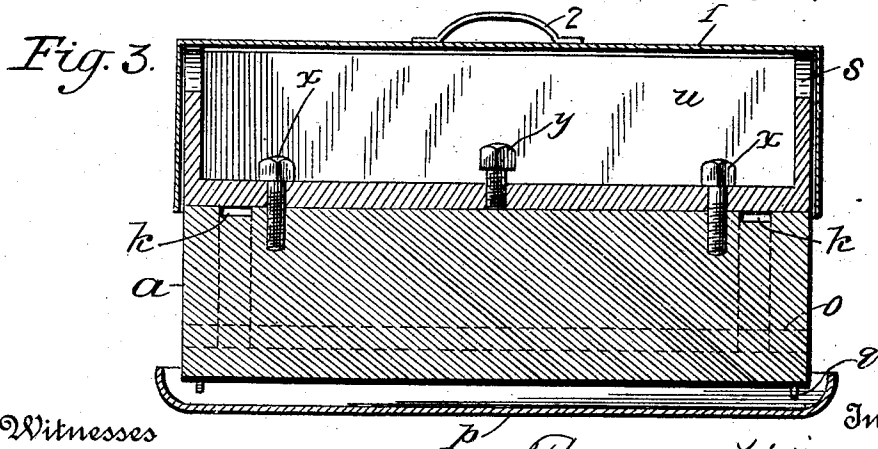
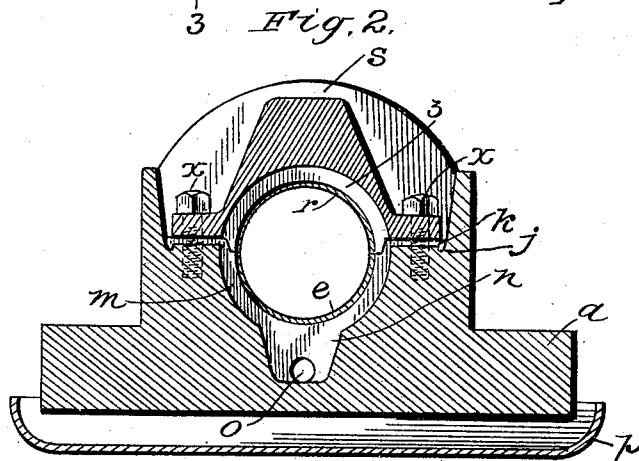
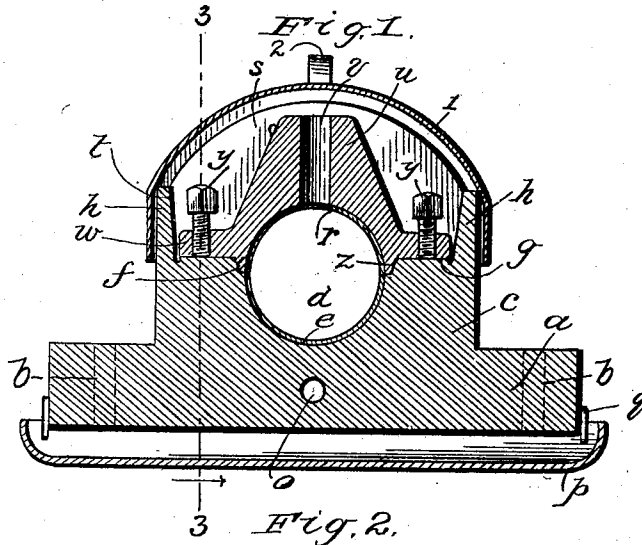
T. HIRTZLER.
JOURNAL BOX.

APPLICATION FILED APR. 10, 1909.

937,603.

Patented Oct. 19, 1909.

2 SHEETS—SHEET 1.



Witnesses
H. R. Edlin.

Geo. E. Dodge.

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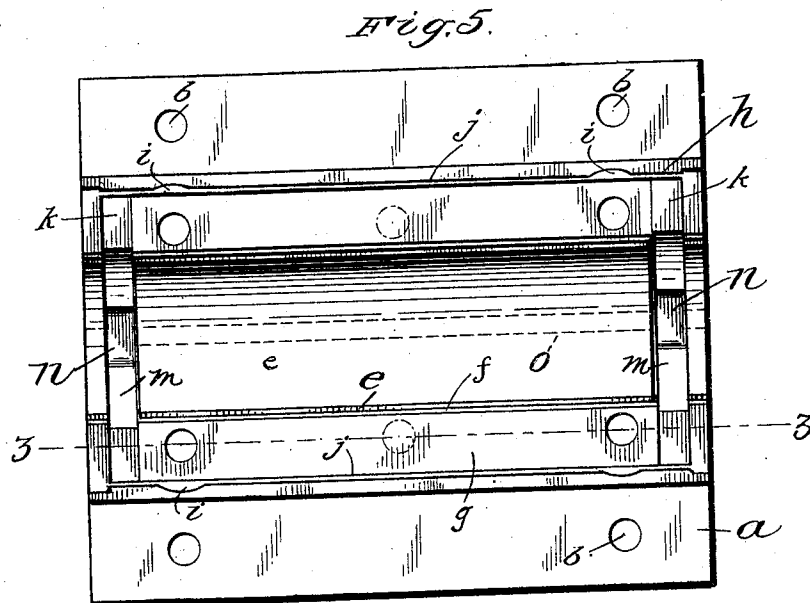
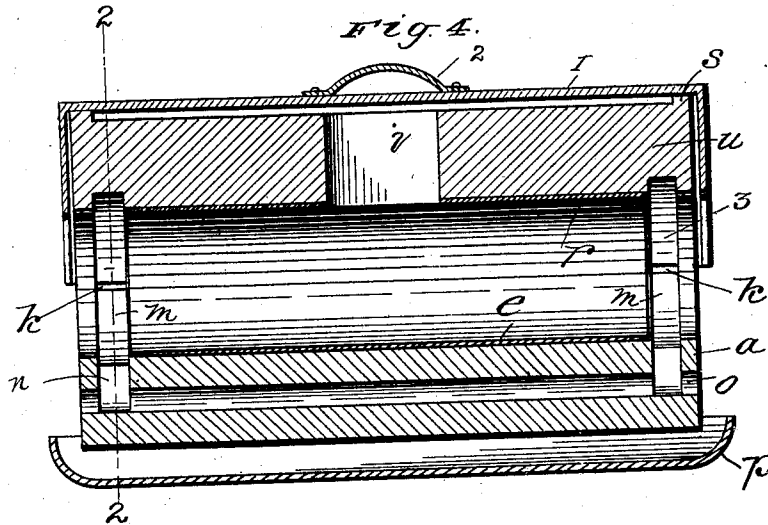
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Inventor

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UNITED STATES PATENT OFFICE.

THEODORE HIRTZLER, OF LUTCHER, LOUISIANA.

JOURNAL-BOX.

937,603.

Specification of Letters Patent.

Patented Oct. 19, 1909.

Application filed April 10, 1909. Serial No. 489,242.

To all whom it may concern:

Be it known that I, THEODORE HIRTZLER, a citizen of the United States, residing at Lutcher, in the parish of St. James and State of Louisiana, have invented certain new and useful Improvements in Journal-Boxes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in journal boxes more especially designed for use on railroad trucks, although it is not restricted to this use.

The object of my invention is to provide a journal box of such a nature that it may be thoroughly oiled and that the lubricant will be properly distributed over the wearing parts.

With this object in view, my invention consists in the construction and combinations of parts as hereinafter described and claimed.

In the accompanying drawings—Figure 1 is a vertical central cross section of my invention. Fig. 2 is a cross section thereof on the line 2—2 of Fig. 4, the cover being removed. Fig. 3 is a longitudinal section thereof on the line 3—3 of Figs. 1 and 5. Fig. 4 is a longitudinal central section thereof, and Fig. 5 is a top plan view of the same, the upper portions being removed.

a represents the base of the box, which is provided with holes *b* for bolts for securing it to the truck or other structure. Midway of this base is a portion *c* projecting upwardly, which is hollowed away as shown at *d*, for the passage of the axle. The central part *e* of the portion *c* is preferably made of Babbitt metal or similar material, which is cut away as shown at *f*, to form a recess into which fits the upper part of the bearing.

The part *e* is substantially semi-cylindrical and the part *c* is provided with horizontal portions *g*, forming a flat surface against which the upper part is fastened, and is also provided with bolt holes for the reception of bolts passing through the upper part and into the portion *c*. It is also provided with upwardly projecting sides *h*, cut away as shown at *i*, Fig. 5, which form oil passages which communicate with horizontal passages *j* just inside the inner part of the upwardly projecting portions *h*, the

structure on both sides being exactly similar. The passages *j* communicate with horizontal passages *k* in the top of the portion *c*, and these horizontal passages communicate with semicircular passages *m*, each of which is provided with a sunken portion or well *n*, the lower part of which communicates with a drip orifice *o*. It should be noted that there is a passage completely through the bearing in line with the passage *o* and underneath the Babbitt metal *e*, which serves as an efficient drain for the oil.

p represents a drip pan suspended from the base *a* by clips or other suitable fastenings *q*. This pan *p* may, however, be omitted.

The upper half of the bearing is composed of a removable piece having a lining *r* of Babbitt metal and a curved flange *s* at each end, said flange having a straight portion *t* at each side thereof, which fits in between the vertical portions *h* of the lower half of the journal. Between the end flanges the upper half of the bearing is beveled off as shown at *u* in Fig. 1, and is provided with an opening *v*, through which oil may be delivered to the axle. The upper half of the box is also provided with horizontal portions *w*, which rest upon the horizontal portions *g* of the part *c*, but which do not fit tightly against the parts *h*, a small space being left therebetween.

Each of the parts *w* is provided with bolt holes through which pass two bolts *x* for securing the two halves of the box together, and a central adjusting bolt *y*. Obviously by loosening the bolts *x* and screwing down the bolts *y*, the upper half may be adjusted away from the lower half of the box. This is also useful in separating the halves of the box for cleaning or repairing, if they should happen to stick together. The upper half is provided with downwardly projecting ribs *z*, which fit into the grooves *f* of the lower half of the box. The upper part is cut away, forming a passage 3 located just above the passage *m*, the passages 3 and *m* forming a continuous circular passage completely around the axle (not shown).

1 represents a cover or removable casing for the box, which is provided with a handle 2 and is shaped so as to fit over the parts *h* of the lower box, as shown in Fig. 1, and which is also cut away, so as to fit around the upper half of the axle.

In use, the cover is removed, and oil

poured in through the passage *v*, whence it works down upon the axle, thoroughly lubricating the same. Any excess of oil works out into the passage *m* and not on to the outside of the box as usual, from whence it passes down into the well *n* and out through the drain hole *o* into the drip pan *p*. If any oil should happen to be spilled on the outside of the part *u*, it will run down the sides thereof and through the cut away portions *i* into the passage *j*, and thence into the curved passages *m*.

I claim:

1. A journal box composed of two parts, the upper part being adapted to rest within and against the lower part, and means for adjustably securing the two parts together, the lower part being provided with a semicircular passage at each end, terminating in a well, with a drip opening communicating with said well, with horizontal passages in the same plane as said semicircular passages, and longitudinal passages connecting said last named passages, substantially as described.

2. A journal box composed of a lower part and an upper part adapted to fit within and be secured to said lower part, and means for adjustably securing said parts together, the lower part being provided near each end with a semicircular passage, having a well at its lowest portion, with horizontal passages communicating with said semicircular passages, with longitudinal passages connecting said horizontal passages and with upwardly projecting sides, and said upper part being provided with a curved portion having flat ends adapted to fit within the sides of the lower portion, with a beveled central portion having an oil hole therein, and with horizontal portions adapted to rest against the lower part of said box, substantially as described.

3. A journal box composed of a lower part

and an upper part adapted to fit within and be secured to said lower part, and means for adjustably securing said parts together, the lower part being provided near each end with a semicircular passage, having a well at its lowest portion, with horizontal passages communicating with said semicircular passages, with longitudinal passages connecting said horizontal passages and with upwardly projecting sides, and said upper part being provided with a curved portion having flat ends adapted to fit within the sides of the lower portion, with a beveled central portion having an oil hole therein, with horizontal portions adapted to rest against the lower part of said box, and a cover shaped to fit over the upper part of said box, substantially as described.

4. A journal box composed of a lower part and an upper part adapted to fit within and be secured to said lower part, and means for adjustably securing said parts together, the lower part being provided near each end with a semicircular passage, having a well at its lowest portion, with horizontal passages communicating with said semicircular passages, with longitudinal passages connecting said horizontal passages and with upwardly projecting sides, and said upper part being provided with a curved portion having flat ends adapted to fit within the sides of the lower portion, with a beveled central portion having an oil hole therein, with horizontal portions adapted to rest against the lower part of said box, and a drip pan supported on the lower part of said box, substantially as described.

In testimony whereof, I affix my signature, in presence of two witnesses.

THEODORE HIRTZLER.

Witnesses:

GEORGE ROUSSELL,
FRANK U. COPPONEX.