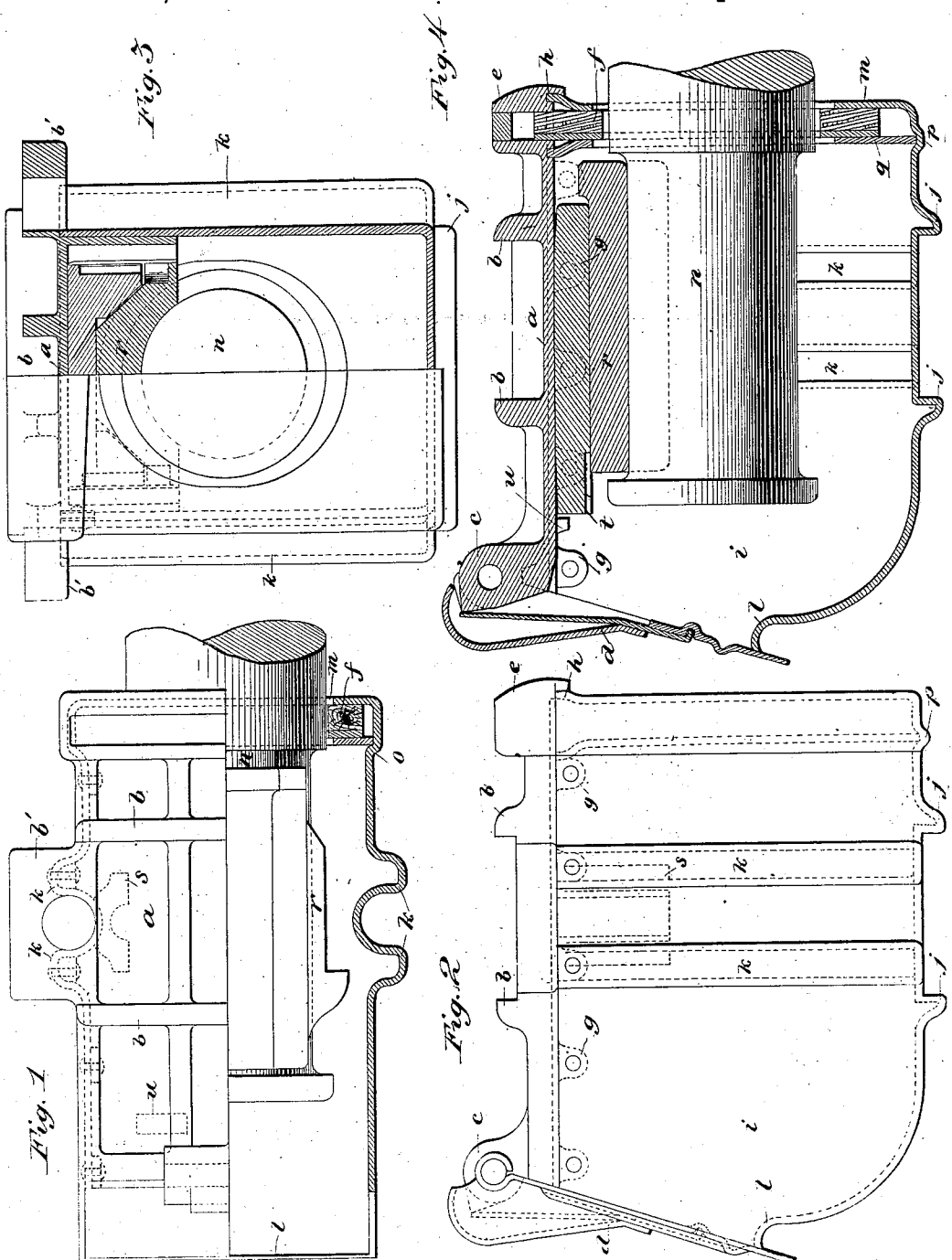


(No Model.)

C. T. SCHOEN.
CAR JOURNAL BOX.

No. 482,200.

Patented Sept. 6, 1892.



Witnesses:

J. F. Heman
C. T. Schoen

Inventor:

Charles T. Schoen
by Wm. H. Finckel
his Atty.

UNITED STATES PATENT OFFICE.

CHARLES T. SCHOEN, OF ALLEGHENY, PENNSYLVANIA.

CAR-JOURNAL BOX.

SPECIFICATION forming part of Letters Patent No. 482,200, dated September 6, 1892.

Application filed March 28, 1892. Serial No. 426,736. (No model.)

To all whom it may concern:

Be it known that I, CHARLES T. SCHOEN, a citizen of the United States, residing at Allegheny, in the county of Allegheny and State of Pennsylvania, have invented a certain new and useful Improvement in Journal-Boxes, of which the following is a full, clear, and exact description.

The object of this invention is to make a pressed-steel journal or axle box for cars, which may be interchanged with the master car-builders' standard of cast-iron boxes when necessary. The process of making such boxes and the machinery therefor will form subjects of future applications for Letters Patent, and hence this specification is confined to the article as an article.

In the accompanying drawings, illustrating my invention, in the several figures of which like parts are similarly designated, Figure 1 is a top plan and half-section. Fig. 2 is a side elevation. Fig. 3 is a rear view and half-section, and Fig. 4 is a vertical longitudinal section.

The cover *a* may be a casting, malleable or otherwise, drop forging, or of pressed steel; but for the purposes of this case I will describe it as a casting, and as such it is made with parallel transverse lugs *b* to receive the arch bar of the truck; also, with lateral eyes *b'* *b'* to receive the connecting bolt or bolts; also, with the lug *c* to receive a usual lid *d*; also, with a slotted projection *e* for the insertion of the dust-guard *f*; also, with the downwardly-projecting lug *g*, and also with a groove *h* in its under side to receive the upper edges of the pressed-steel body *i* of the box, such body being united with the cover by riveting or otherwise fastening it to the lugs *g*. The body *i* is formed of a single piece of soft-steel plate or other wrought metal bent to shape and otherwise manipulated and treated. It is provided with the parallel lugs or projecting ribs *j* for the lower arch bar, the parallel side lugs or projecting ribs *k* for the fastening bolt or bolts, a front lip *l* for the lid, and a rear wall *m*, having the opening for the axle nib or journal *n*. Lateral shoulders *o* and a bottom groove *p* are made in the body to receive a partition-plate *q* to form the

box for the dust-guard *f*. Both the rear wall *m* of the body and the partition *q* are let into grooves in the cover, as clearly shown in Figs. 2 and 4.

r is the brass or bearing of usual construction, held in place by the lugs *s*, depending from the cover, and also by the key *j*, which in turn is kept in place by the lug *u*, also depending from the cover; but of course I do not limit my invention to these details, inasmuch as my invention consists, broadly, in a journal-box having its body of pressed steel or like wrought metal and a separate top.

By the construction of box herein described it is possible to interchange with cast-iron boxes of the master car-builders' standard, and hence my boxes are available in replacing useless boxes on rolling-stock already built. Another and very important advantage of these boxes is that there is a saving of upward of nearly four hundred pounds of dead-weight in the eight boxes of a car.

What I claim is—

1. A journal-box comprising an independently-constructed top of suitable material and formation, combined with a body of wrought metal, such as pressed steel, made separate from the top and composed of sides, bottom, a rear wall, and a front lip made integral and fitted and secured to such top, substantially as described.

2. A journal-box comprising a top having a groove in its under side and downwardly-projecting lugs, combined with a body struck up from wrought metal, having its edges fitted in said grooves and fastened to said lugs, substantially as described.

3. In a journal-box, a wrought-metal body provided with lateral shoulders *o* and a bottom groove *p*, combined with a partition-plate *q*, fitted therein, to separate off or form in the rear of the box a compartment for the reception of the dust-guard, substantially as described.

In testimony whereof I have hereunto set my hand this 23d day of March, A. D. 1892.

CHARLES T. SCHOEN.

Witnesses:

CHAS. E. BROWN,
W. H. SCHOEN, Jr.