

A. E. STRATTON, Jr.
Car-Axle Bearing.

No. 210,475.

Patented Dec. 3, 1878.

Fig. 1.

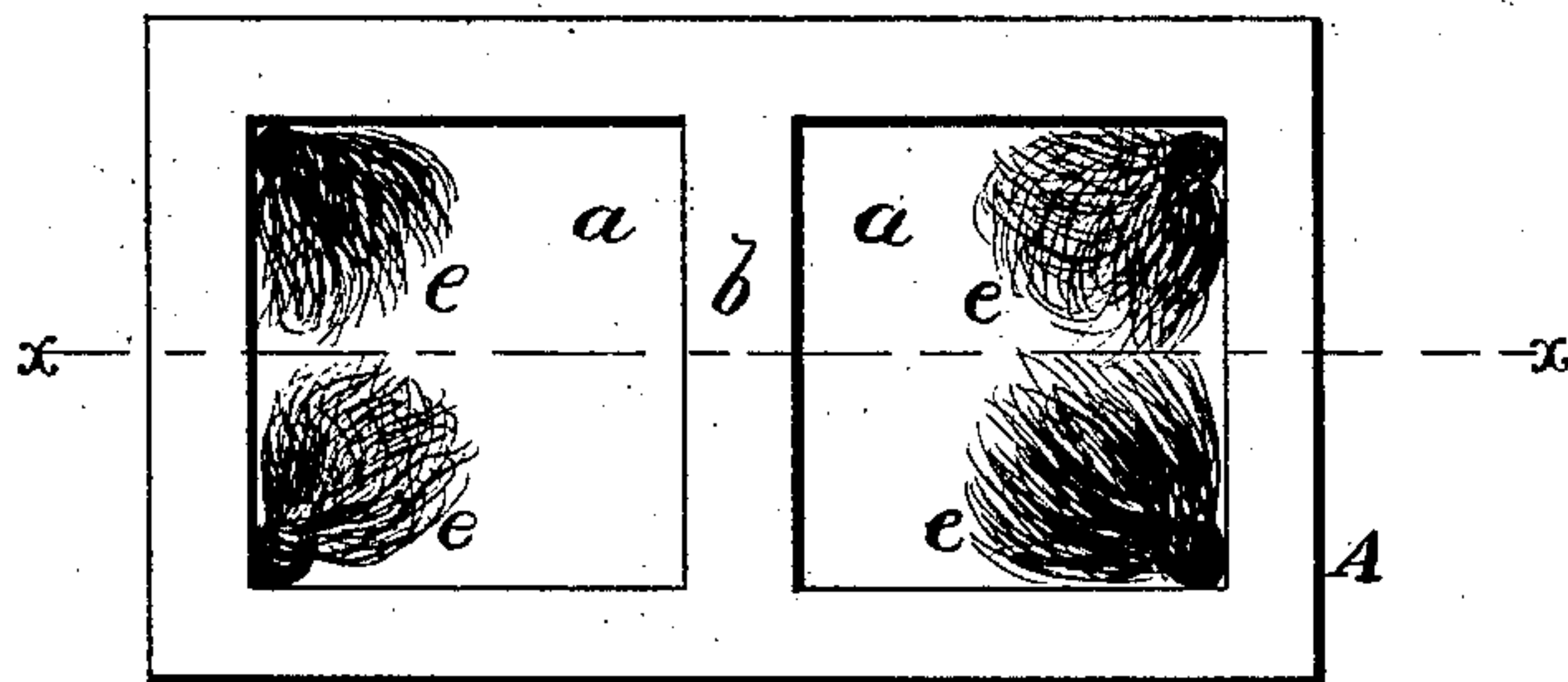


Fig. 2.

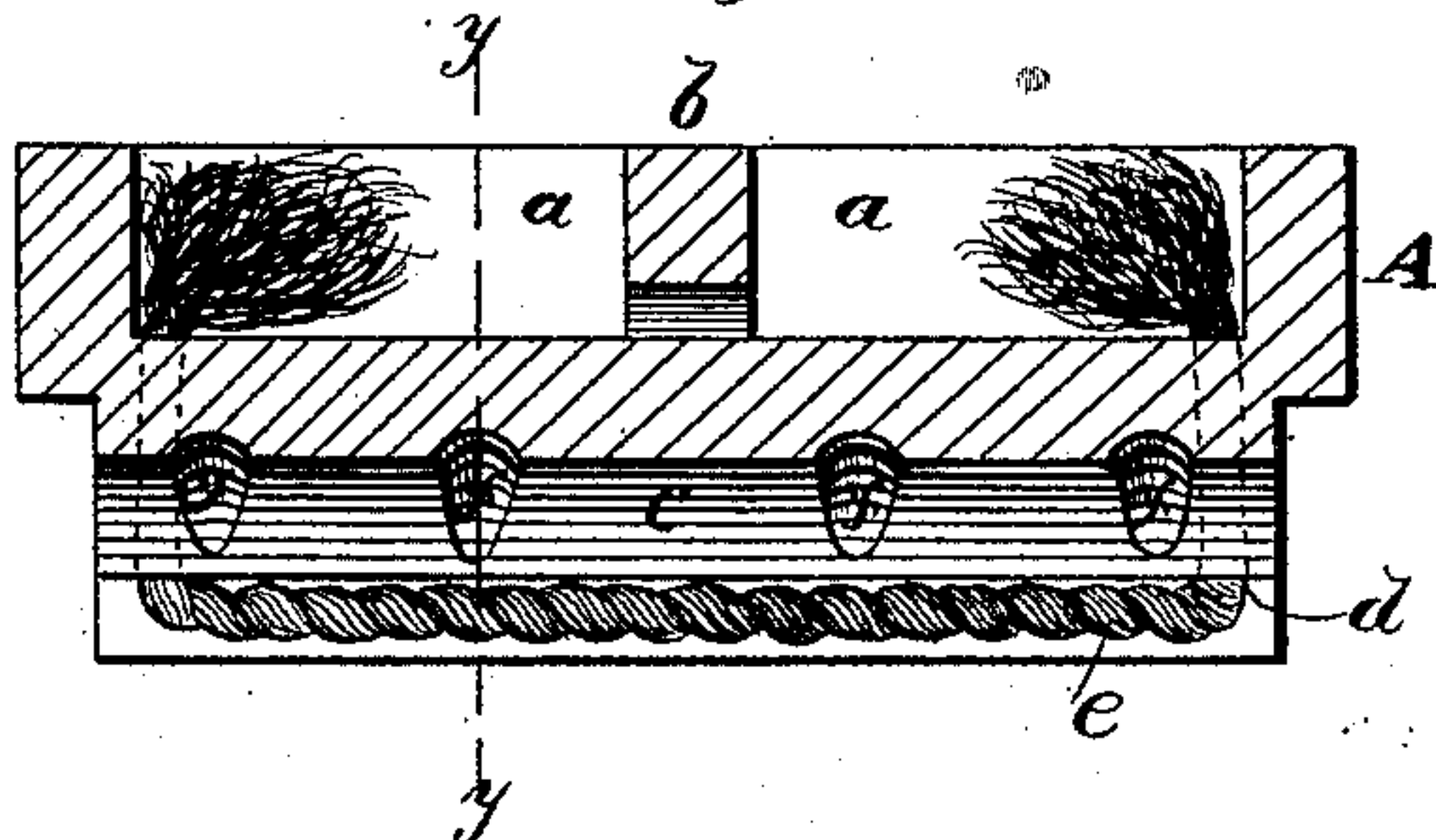
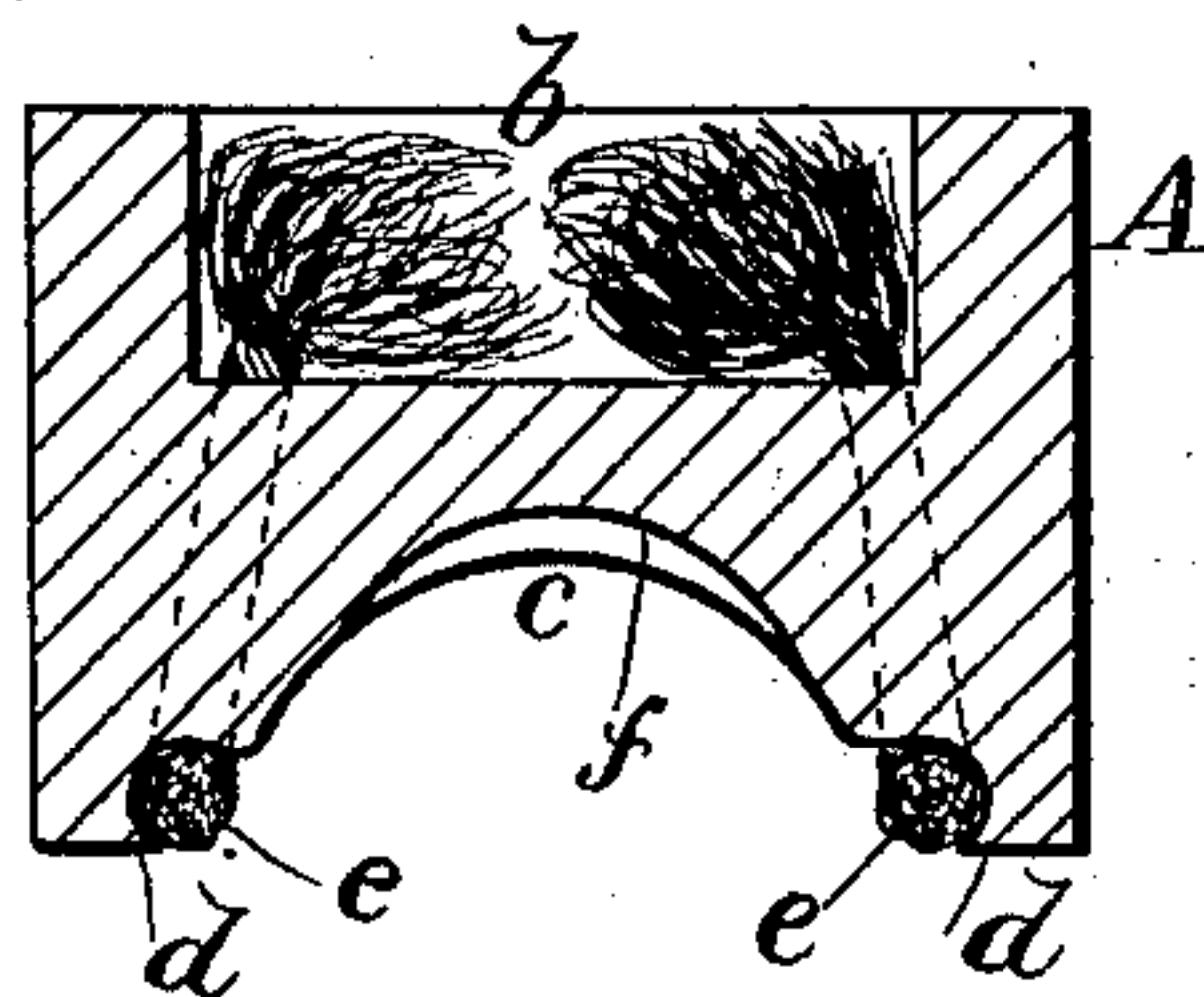


Fig. 3.



WITNESSES:

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ASA E. STRATTON, JR., OF BRAZORIA, TEXAS.

IMPROVEMENT IN CAR-AXLE BEARINGS.

Specification forming part of Letters Patent No. **210,475**, dated December 3, 1878; application filed July 16, 1878.

To all whom it may concern:

Be it known that I, ASA E. STRATTON, JR., of Brazoria, in the county of Brazoria and State of Texas, have invented a new and Improved Axle-Box, of which the following is a specification:

Figure 1 is a plan view of my improved axle-box. Fig. 2 is a longitudinal section, taken on line *x x* in Fig. 1. Fig. 3 is a transverse section, taken on line *y y*, Fig. 2.

Similar letters of reference indicate corresponding parts.

My invention relates to journal-boxes, and is more particularly designed for car-axles.

It consists in a box having a chambered back for containing oil, and having grooves along the straight edges of its bearing-surface for receiving a wick, the ends of which extend through holes in the box into the oil-reservoir.

The object of my invention is to provide a journal-box which will continuously lubricate itself, and thereby avoid heating and cutting.

Referring to the drawings, A is a box or "brass," made of any of the materials commonly used for the purpose, and having in its upper or plane side two oil-cavities, *a*, which are separated by a partition, *b*, which forms a support for the middle of the bearing-surface *c*.

Semicircular grooves *d* are formed in the

box along the lower edges of the bearing-surface to receive the wicks *e*, which extend through holes in the box into the cavities *a* for conveying oil to the bearing.

In the bearing-surface *c* there are several cavities, *f*, for containing surplus oil and receiving any particles that may be cut from the journal or bearing.

The ends of the box are recessed to afford room on the journal between the box and the side of the casing for gum and dirt that may be forced from the bearing-surfaces.

The box is fitted to the ordinary axle-box housings, and two oil-holes are made in the top of the housing for the purpose of feeding the oil-cavities *a*.

The wick *e* not only supplies the journal with oil, but it also removes any dust or grit that may be deposited on the bearing.

I am aware that it is not new to carry a wick through a pipe from an oil-chamber to the inside of box; but

What I claim is—

A box or brass provided with a bearing-surface, *c*, having the cavities *f* and grooves *d*, arranged as and for the purpose specified.

ASA EVANS STRATTON, JR.

Witnesses:

H. STEVENS,

J. N. SHAPARD.