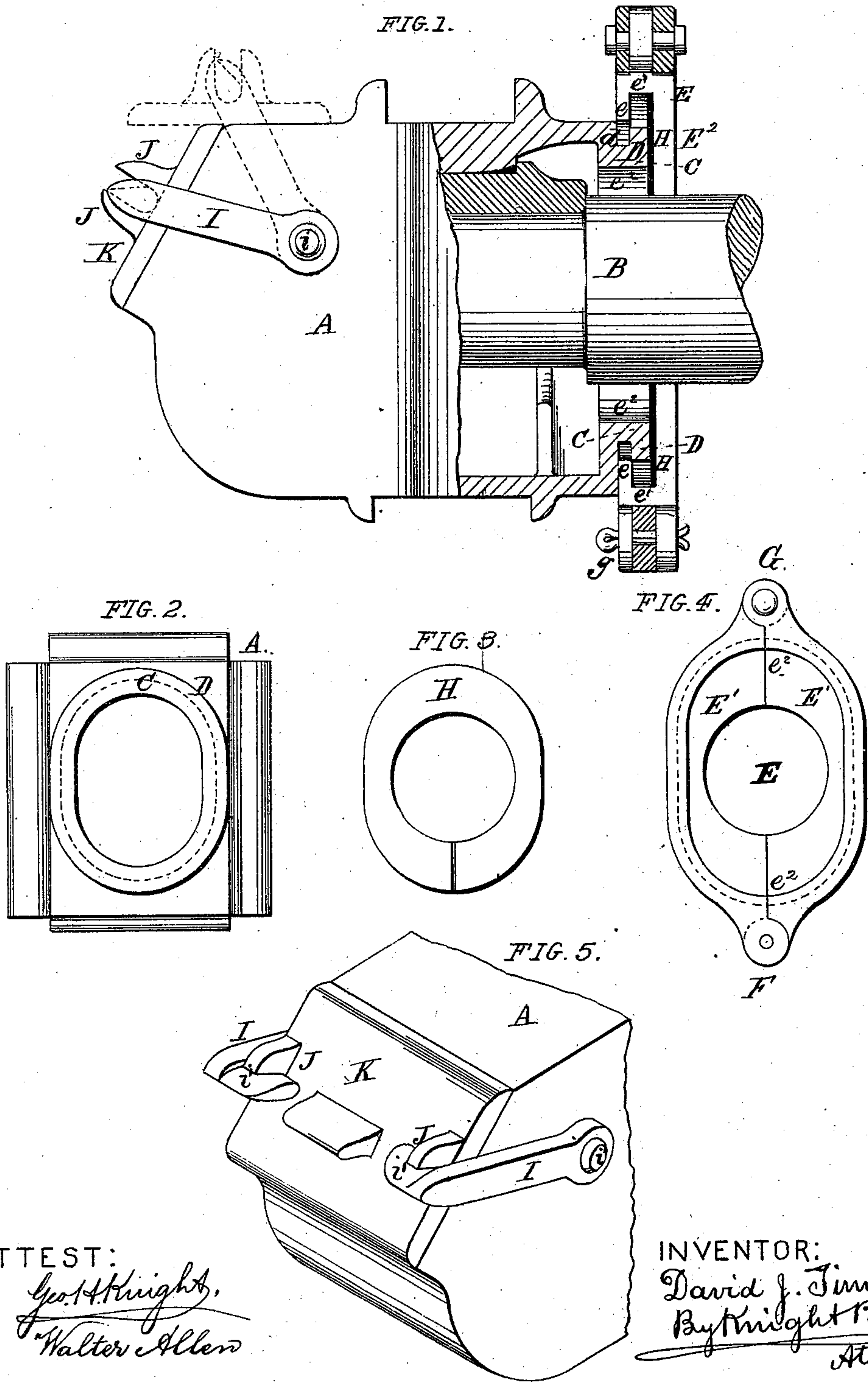


D. J. TIMLIN.
Car-Axle Box.

No. 227,457.

Patented May 11, 1880.



ATTEST:
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UNITED STATES PATENT OFFICE.

DAVID J. TIMLIN, OF FLORISANT, MISSOURI.

CAR-AXLE BOX.

SPECIFICATION forming part of Letters Patent No. 227,457, dated May 11, 1880.

Application filed January 29, 1880.

To all whom it may concern:

Be it known that I, DAVID J. TIMLIN, of Florisant, in the county of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Oil-Boxes for Cars, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

The first part of my improvement consists in the combination of a flanged neck at the inner end of the box around the axle and a clamp-flange or collar engaging with the neck, and containing a gasket surrounding the axle, and preventing the passage of grease or dust.

The second part of my improvement consists in the manner of connecting the cover to the box. This is done by two arms or links pivoted upon the sides of the box and engaging with the edge of the cover at or near its middle. The position and connection of the arms to the cover is such that the cover can be thrown up and rest on top of the box, or may be dropped to position in front of the box, where the weight of the parts holds the cover in close contact with the box.

In the drawings, Figure 1 is a side view, part in section, to show the hinged collar or clamp frame attached to the box, and showing the cover in its closed position in full lines and in its raised position in dotted lines. Fig. 2 is an inner-end view of the box with the flange removed to show the outturned flange of the box which holds the removable collar or flange in place. Fig. 3 is a side view of the washer or gasket. Fig. 4 is an inside view of the hinged collar. Fig. 5 is a perspective view of the outer end of the box, showing the cover or cap and its attachments.

A is the box, and B the car-axle. The inner end of the box is formed with a neck, C, which has upon it an outturned flange or collar, D, forming a groove, *d*, to receive the flange *e* of the collar or clamp-flange E. The collar E consists of two jaws or members, E' E', which are connected by a hinge, F, at one end, (say the top,) and by interlocking lugs G at the other end, through which passes a split pin or key, *g*, or equivalent device for

holding that end of the collar. The collar is made with a recess, *e'*, which receives a gasket, H, of leather, rubber, or other suitable material, having a central aperture, in which the axle fits. The object is to exclude dust and prevent the escape of grease.

The outer face, E², of the collar E is made to fit the axle freely. The inner aperture, e², of the collar is of greater diameter vertically than the neck C, so as to allow a vertical movement of the axle in the box, as brasses are changed, without strain to the collar. The gasket may be cut through at top or bottom to allow its removal and renewal without removal of the grease-box from the axle.

H' is a cover or lid secured to the box by means of stirrup-arms I. The arms I are pivoted to the box by means of screws or rivets *i* passing through their inner ends. The outer ends of the arms terminate in lugs or hooks *i'*, which engage between lugs J, cast upon the cover. By this means of attachment of the cover it will be seen that it can be raised up and rest upon the top of the box and allow access to the inside of the box, and when closed will be held in place by means of the arms and the force of gravity, and no catch or lock is required to hold it in place, and it cannot be lost, and it will adjust itself to any box, whatever the inclination of the mouth may be. The stirrup-arms may be connected at their outer ends by a bar, which would extend across the face of the cover.

I claim—

1. An oil-box provided with neck C, having outturned flange D and groove *d*, for the reception and attachment of clamp-flange E, and recess *e'*, for the reception of the gasket H, as set forth.

2. The clamp-flange or collar E, formed of two members hinged together and inclosing gasket or washer H, substantially as set forth.

3. The self-adjusting cover connected to the box by stirrup-arms I and lugs J, substantially as set forth.

DAVID J. TIMLIN.

Witnesses:

WILLIAM J. MORGAN,
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