D. W. GERO.

JOURNAL BOX.

APPLICATION FILED FEB. 8, 1908.

908,403. Patented Dec. 29, 1908.

2 SHEETS—SHEET 1.

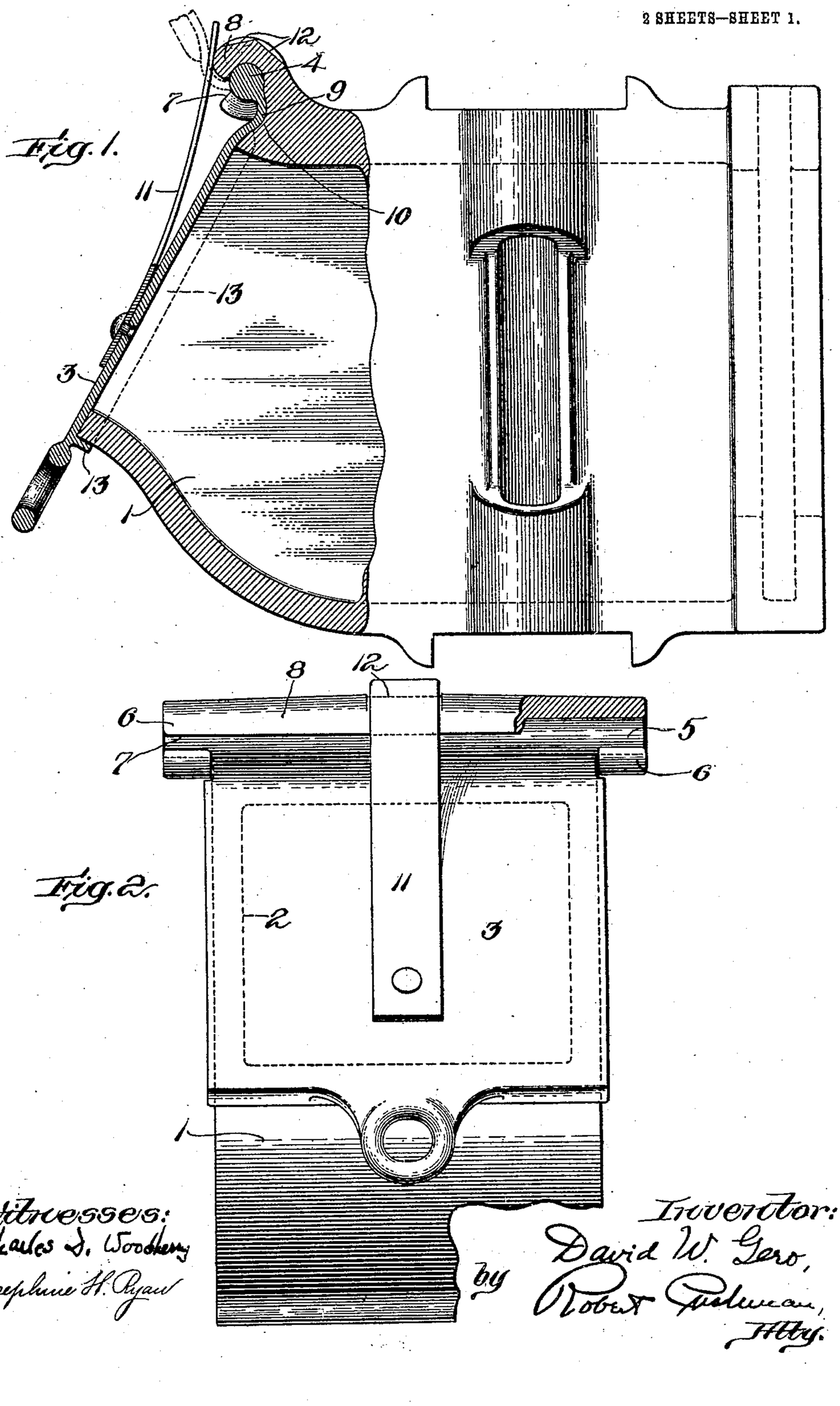

Fig. 1.

Fig. 2.

Witnesses:
Charles D. Woodbury
Josephine H. Ryan

Inventor:
David W. Gero,
by Robert Pusheman,
Atty.

D. W. GERO.

JOURNAL BOX.

APPLICATION FILED FEB. 8, 1908.

908,403.

Patented Dec. 29, 1908.

2 SHEETS—SHEET 2.

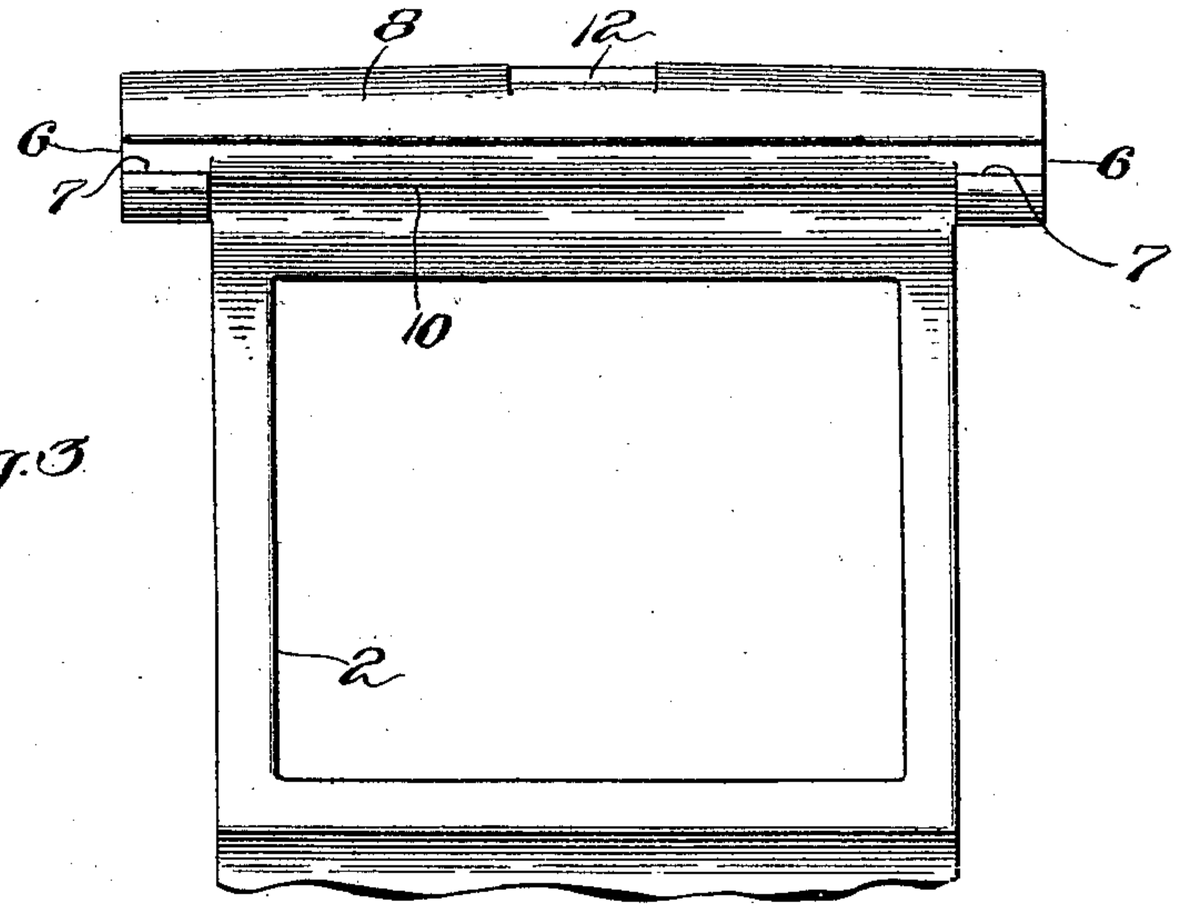

Fig. 3

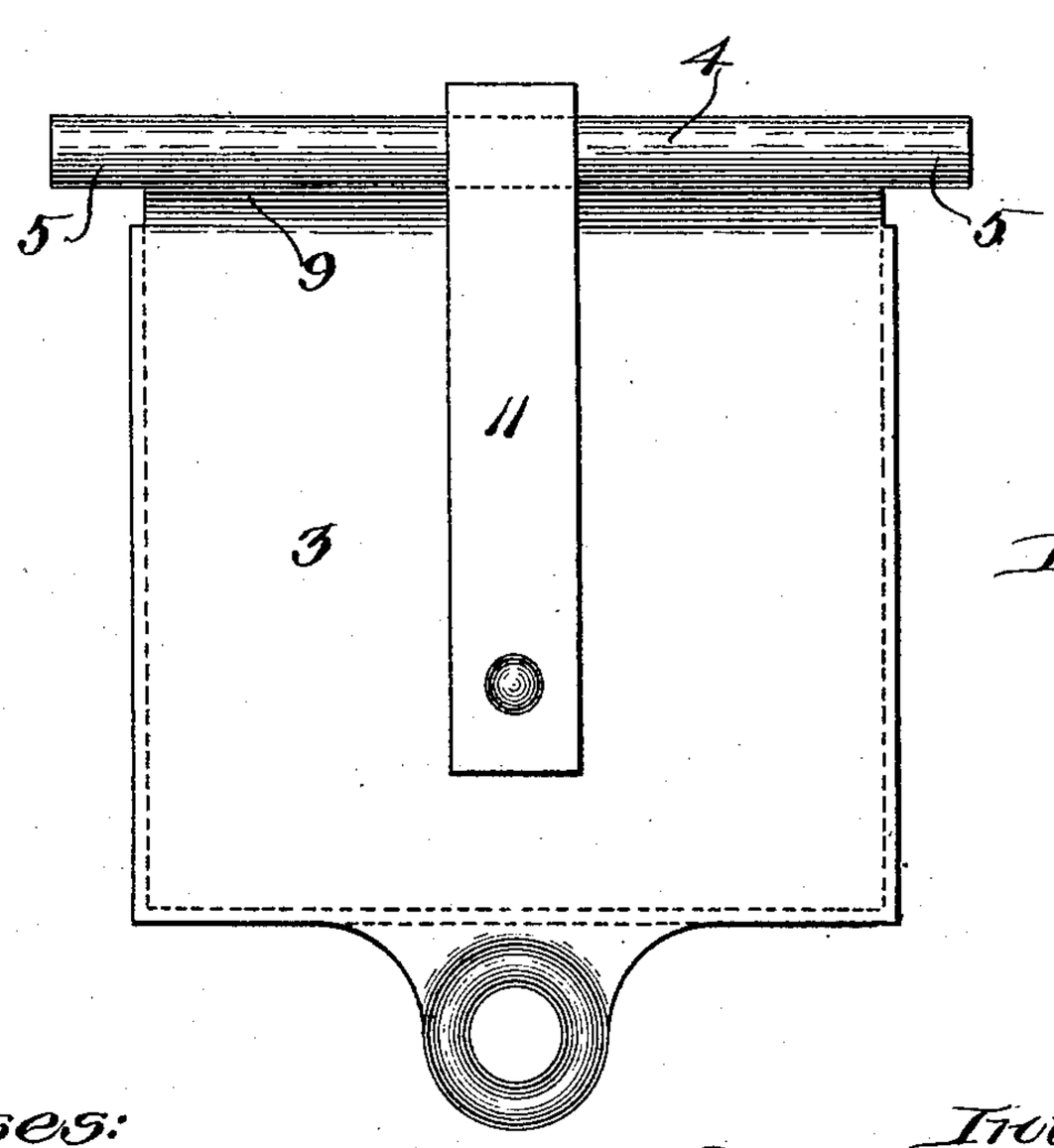

Fig. 4.

Witnesses:
Charles S. Wadsworth
Josephine H. Ryan

Inventor:
David W. Gero,
by Robert Cushman,
Atty.

UNITED STATES PATENT OFFICE.

DAVID W. GERO, OF BROOKLYN, NEW YORK, ASSIGNOR OF ONE-HALF TO THE LACONIA CAR COMPANY WORKS, A CORPORATION OF NEW HAMPSHIRE.

JOURNAL-BOX.

No. 908,403. Specification of Letters Patent. Patented Dec. 29, 1908.

Application filed February 8, 1908. Serial No. 414,922.

To all whom it may concern:

Be it known that I, DAVID W. GERO, a citizen of the United States, and resident of Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Journal-Boxes, of which the following is a specification.

My invention relates to journal-boxes for railway cars, and its object is to provide an improved construction of journal-box and lid hinged thereto, whose parts shall be strong, simple, easily assembled and easily operated, and dust proof.

In the accompanying drawings which illustrate an embodiment of my invention,—Figure 1 is a side view, partly in vertical section, of a journal-box and lid containing my invention; Fig. 2 is a front view, partly in section, of said journal-box and lid; Fig. 3 is a front view of the journal-box without the lid; and Fig. 4 is a front view of the lid alone.

Referring to the drawings, 1 represents a journal-box which in its general features may be of usual form, and 2 represents the lateral opening thereof. A lid 3 is provided for closing said opening 2, hinged at its upper edge to the box. Across the upper horizontal edge of the lid 3 is a pintle 4, substantially cylindrical in form, preferably made integral with the lid, and extending at each end beyond the sides of the lid as shown at 5, 5. At each side of the box 1, opposed knuckles 6, 6 are provided to serve as bearings for the extended ends 5, 5, of the pintle. The knuckles 6, 6 are open at their ends, as shown, and each is provided with a slot 7, on its front side, the purpose of which will presently be set forth. A hood 8, is provided on the box, and is preferably made integral therewith, extending continuously between the knuckles 6, 6, and projecting over and slightly in front of and closely fitting the pintle 4, thus providing a closely-fitting, dust-proof guard for the hinge of the lid.

Immediately below the pintle the lid has a horizontal, rearward bend or fold 9, extending across the lid. The face of the box is provided with a corresponding horizontal groove or channel 10 above the opening 2 into which the fold 9 fits snugly when the lid is closed, as shown in Fig. 1. The fold 9 provides a recess in the outer face of the lid to receive the front edge of the hood 8 when the lid is opened and permits it to be opened wider than would otherwise be possible, as shown in dotted lines in Fig. 1. Furthermore, the fold 9 and channel 10 form a tight joint when the lid is closed and assist in rendering the structure dust-proof.

Secured to the face of the lid is a leaf spring 11 which bears against the front edge of the hood 8 when the lid is in closed position tending to hold the lid yieldingly closed. One or more flattened surfaces 12, 12, are provided on the upper side of hood 8 which engage with leaf spring 11 when the lid is opened tending to hold the lid yieldingly in the desired open position.

In assembling the parts or removing the lid, the pintle is passed endwise through the knuckles, the lid being turned upwardly so that the lid at the point of the fold 9, will pass edgewise through the slots 7. When brought to its proper position central of the opening 2, the lid is swung downward, and immediately the fold 9 is out of alinement with slots 7, the lid is securely locked in place against dislodgment from its bearings. I have shown both knuckles as open at the end and both as provided with a slot 7, but it will be obvious that the parts could be assembled as described if only one were so constructed and the other were closed at the end and were not provided with the slot.

The lid is provided at its sides and bottom with a rim 13 fitting over the box so as to exclude dust at those points.

With the above described features, not only have I achieved great simplicity and durability of construction, but I believe the box is rendered as nearly dust-proof as it is possible for a journal-box to be. When the lid is closed the close fitting hood 8 and the close fitting joint between the fold 9 and channel 10 render it practically impossible for dust to work in between the lid and the box; and consequently when the lid is opened there is no accumulated dirt to fall into the box as usually happens in other forms of journal-box.

I claim:

1. A journal box having a lateral opening, and a lid provided with a cylindrical pintle extending continuously across the upper edge of the lid, said box being provided with a hood above said opening having a cylindrical upper, inner surface closely fitting the upper side of said cylindrical pintle

and extending continuously from side to side of said box, said hood forming for said pintle a continuous bearing for said pintle from side to side of the box, whereby the cylindrical surfaces of said pintle and hood will remain in engagement in all positions of the lid, this forming a dust proof joint.

2. A journal-box having a lateral opening, a lid provided on its upper horizontal edge with a pintle, said box being provided with a hood above said opening extending continuously from side to side of the box, projecting over and closely fitting said pintle, and having a pair of opposed knuckles one at each end, in which the ends of the pintle are journaled, one at least of said knuckles being open at its end and slotted on its front side to admit of the passage of the lid laterally therethrough.

3. A journal-box having a lateral opening, a lid provided on its upper horizontal edge with a pintle, said box being provided with a hood above said opening having a pair of opposed knuckles one at each side of the box in which the ends of the pintle are journaled, said hood extending over and closely fitting said pintle, and having a flattened surface on its upper side, said hood and knuckles together forming an integral dust guard wholly covering, upon the upper side, all joints and cracks between said lid and box, and a leaf spring secured to the lid bearing against the front of the hood when the lid is closed and adapted to hold the lid yieldingly in closed position, and bearing against the flattened surface when the end is open and adapted to hold the lid yieldingly in open position.

4. A journal-box having a lateral opening, a lid provided on its upper horizontal edge with a pintle, said box being provided with a hood above said opening having a pair of opposed knuckles one at each side of the box in which the ends of the pintle are journaled, said hood extending continuously between said knuckles and projecting over and closely fitting said pintle, said hood and knuckles together forming an integral dust guard wholly covering, upon the upper side, all joints and cracks between said lid and box, and said lid having a rearward bend or fold across the lid immediately below the pintle, the face of the box above its opening being provided with a horizontal groove or channel into which said bend or fold of the lid fits when the lid is closed.

5. A journal-box having a lateral opening, a lid provided with an integral pintle extending across the upper edge of the lid and projecting beyond the edges of the lid at each side, said box being provided with a hood made integral with the box and extending continuously from side to side of the box and projecting over and closely fitting the pintle, and having a pair of opposed knuckles one at each side of the box in which said extended ends of the pintle are journaled, one at least of said knuckles being open at the end and slotted on its front side to admit of assembling or removing the lid by sliding the same laterally of the box, and said lid having a rearward bend or fold across the lid immediately below the pintle, the face of the box above its opening being provided with a horizontal groove or channel into which said bend or fold of the lid fits when the lid is closed.

6. A journal-box having a lateral opening, a lid provided with an integral pintle extending across the upper edge of the lid and projecting beyond the edges of the lid at each side, said box being provided with a hood made integral with the box and extending continuously from side to side of the box and projecting over and closely fitting the pintle, and having a pair of opposed knuckles one at each side of the box in which said extended ends of the pintle are journaled, one at least of said knuckles being open at the end and slotted on its front side to admit of assembling or removing the lid by sliding the same laterally of the box, said hood having a flattened surface on its upper side, a leaf spring secured to the lid bearing against the front of the hood when the lid is closed and adapted to hold the lid yieldingly in closed position and bearing against the flattened surface when the lid is open and adapted to hold the lid yieldingly in open position, and said lid having a rearward bend or fold across the lid immediately below the pintle, the face of the box above its opening being provided with a horizontal groove or channel into which said bend or fold of the lid fits when the lid is closed.

Signed by me at Brooklyn, New York, this 16th day of January, 1908.

DAVID W. GERO.

Witnesses:
AUGUSTUS J. RIVERS,
M. F. WHIPPLE.