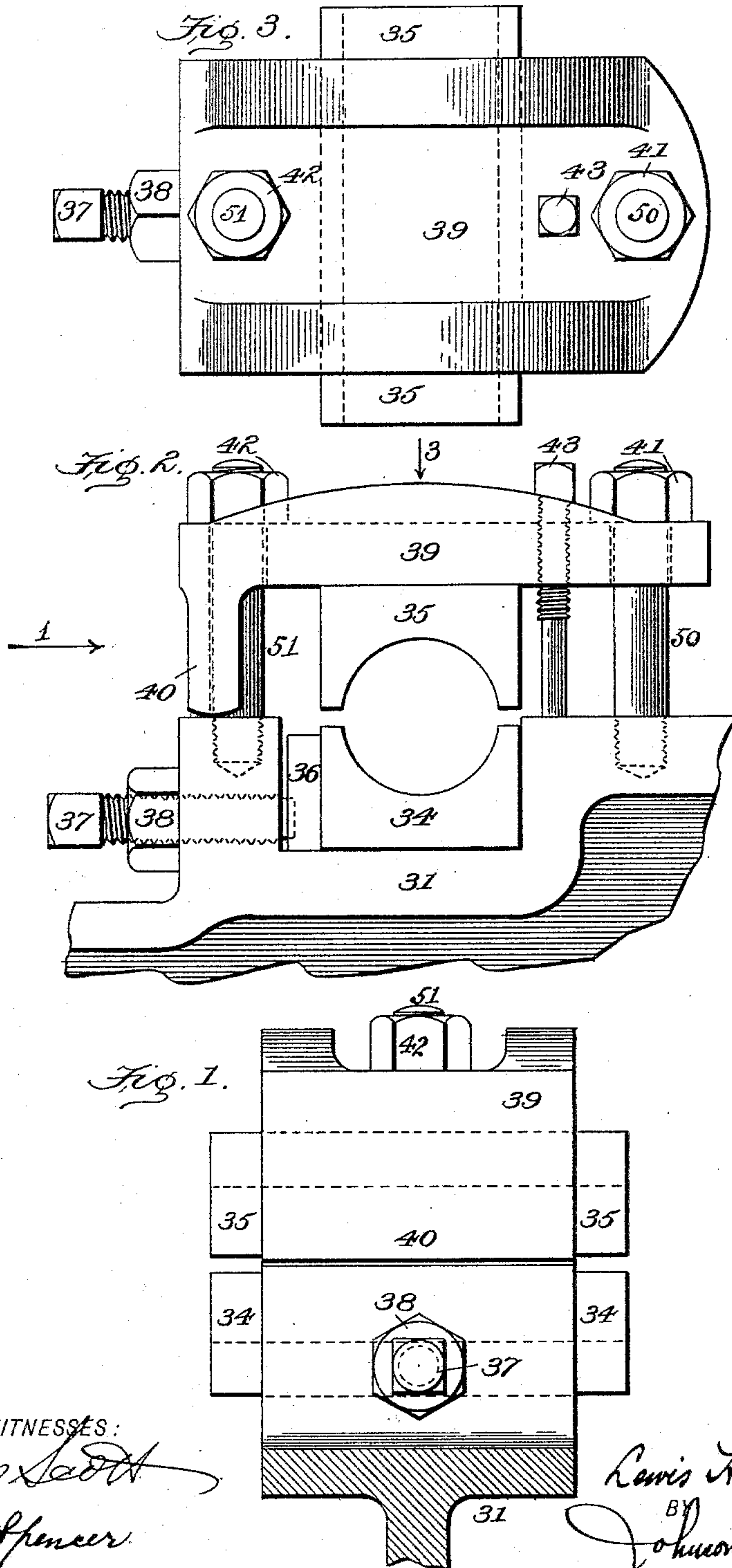


(Model.)

L. H. NASH.
JOURNAL BOX.

No. 597,616.

Patented Jan. 18, 1898.



WITNESSES:
Alex. Scott
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UNITED STATES PATENT OFFICE.

LEWIS HALLOCK NASH, OF SOUTH NORWALK, CONNECTICUT, ASSIGNOR TO
THE NATIONAL METER COMPANY, OF NEW YORK, N. Y.

JOURNAL-BOX.

SPECIFICATION forming part of Letters Patent No. 597,616, dated January 18, 1898.

Application filed July 29, 1896. Serial No. 600,956. (Model.)

To all whom it may concern:

Be it known that I, LEWIS HALLOCK NASH, a citizen of the United States, and a resident of South Norwalk, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Journal-Boxes, of which the following is a specification.

My invention relates to journal-boxes; and it consists of certain novel parts and combinations of parts particularly pointed out in the claims concluding this specification.

In the accompanying drawings I have illustrated my present invention in the form which is at present preferred by me; but it will be understood that various modifications and changes may be made without departing from the spirit of my invention and without exceeding the scope of the concluding claims. In the annexed drawings, Figure 1 is an end view of the journal-box shown in Fig. 2 looking in the direction of the arrow 1. Fig. 2 is a side view of the journal-box, and Fig. 3 is a top view of the same looking at Fig. 2 in the direction of the arrow 3.

Referring to Fig. 2, 34 is the bottom journal-box section, and 31 the base or frame in which it is set. 35 is the upper journal-box section. In the base or frame 31 is a projection provided with a set-screw 37 and a jam-nut 38. 36 is a facing-piece, against which the set-screw 37 impinges. The journal-box section 34 being in position, the facing-piece 36 is placed upon its side and the screw 37 screwed in to hold the section 34 in place. The journal-box section 35 is free to follow lateral movements of the shaft, thus being self-adjusting to avoid friction due to binding in its bearing. The binder 39 is provided at one end with a bolt and nut 41. It is provided at the other end with another bolt and nut 42. 40 is a projection forming a rocking bearing for the binder. 43 is a set-screw carried by the binder and bearing against the base 31.

Assuming that the parts are in the position shown in the drawings and that it is desired to bring the box-sections closer together to take up wear, the set-screw 43 is unscrewed a suitable distance and the nut 42 is eased up. The nut 41 is then screwed down as far

as it will go. That end of the binder 39 which is pierced by the bolt 50 will during this operation describe an arc of a circle, due to the fact that the projection 40 at the opposite end acts like a rocker. About the contact-point between the lower end of the projection 40 and the surface of the base 31 the binder 39 rocks when the nut 41 is screwed down. The box-section 35 having thus been brought nearer to the box-section 34, the set-screw 43 is now screwed down as far as it will go and the nut 42 is again tightened. The whole structure is now absolutely rigid, the binder 39 being at both ends rigidly held with reference to the base 31. At one end it is thus rigidly held by the coaction of the projection 40 and the nut 42, and at the opposite end it is rigidly held by the coaction of the set-screw 43 and the nut 41. A rigid rapidly-adjusted journal-box is thus provided.

The journal-box section 34 is shown as being made separate from its support and removable, the surfaces of the base and the journal-box section being trued, so that the parts are interchangeable; but, if preferred, this part might be made integral with the frame.

It is well understood that an efficient journal-box should be provided with some means for adjustment to take up wear. Various means have been suggested, but all of which I have knowledge are open to one of several objections. To be thoroughly efficient the adjusting means should not interfere with the rigidity and exact location of the parts when in use and, while not sacrificing this important feature, should be capable of easy and speedy adjustment. My present invention is directed, among other things, to this end. By the adjustment heretofore described the upper and lower journal-box sections may be brought together or separated wider apart quickly, while the device at every position of adjustment is rigid and the parts can be depended upon to remain accurately in the positions in which they are placed. While the journal-box section 35 does not during adjustment move toward the journal-box section 34 in scientifically right lines, (since the box-section 35 rocks in approaching the box-section 34, as already pointed out,) the va-

riation from these lines is so slight as to be immaterial.

In the foregoing specification I have incidentally referred to some of the modifications which might be adopted in the practice of my invention; but I have not endeavored to specify all the modifications which might be employed, the object of this specification being to instruct persons skilled in the art to practice my invention in the form at present preferred by me and to enable them to understand its nature, and I desire it to be distinctly understood that mention by me of a few modifications is in no way intended to exclude others not referred to, but which are within the spirit and scope of my invention.

Some of the details illustrated and above described are not essential. This will be indicated in the concluding claims, where the omission of an element or the omission of reference to the detail features mentioned is in-

tended to be a formal declaration of the fact that the omitted elements or features are not essential to the invention therein covered.

What I claim is—

1. In a journal-box, the combination, with a frame and lower journal-bearing section, of a rocking binder, means for adjusting the same, and an upper journal-bearing section free to move with the shaft.

2. In a journal-box, the combination, with a frame and a removable journal-bearing section, of a rocking binder, means for adjusting the same, and a journal-bearing section free to move with the shaft.

Signed at Brooklyn, in the county of Kings and State of New York, this 9th day of July, A. D. 1896.

LEWIS HALLOCK NASH.

Witnesses:

WM. J. BROWN,

WM. M. BROWN.