

S.T.F. Sterick
Imp'd Journal Box & Axle Bearing.

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PATENTED JUL 18 1871

Fig. 1

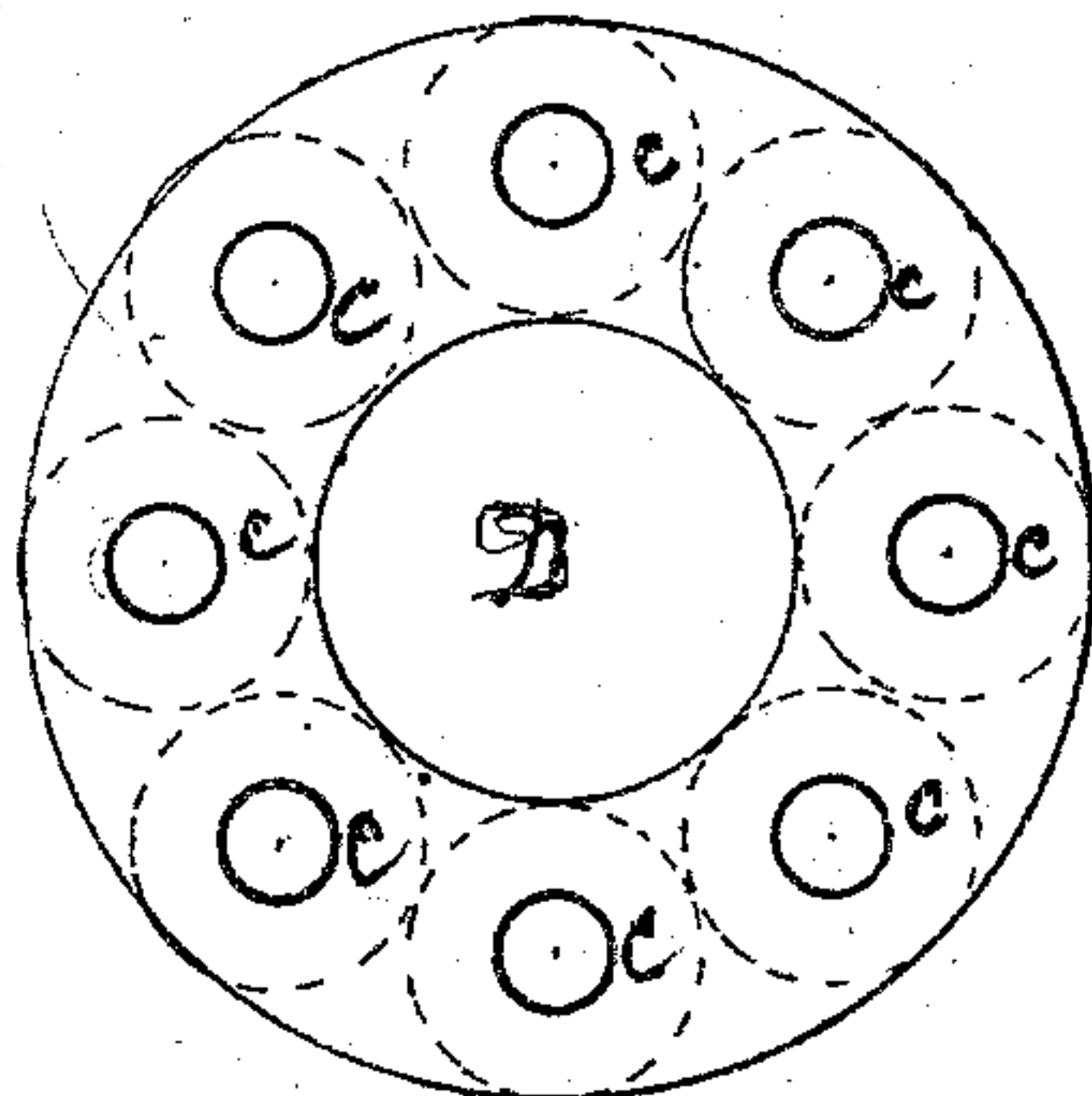
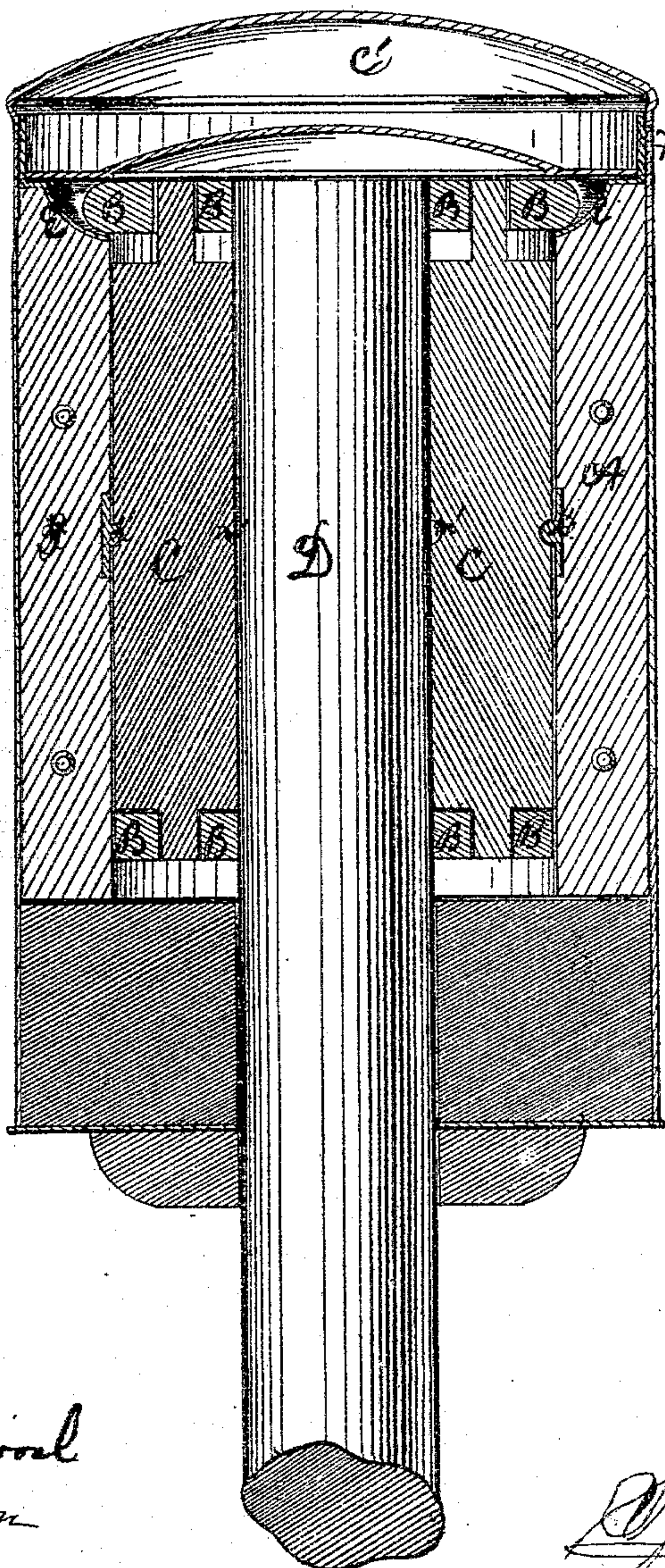


Fig. 2



Witnesses.

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SYLVESTER T. F. STERICK, OF GEORGETOWN, DISTRICT OF COLUMBIA.

IMPROVEMENT IN JOURNAL-BOXES AND AXLE-BEARINGS.

Specification forming part of Letters Patent No. 117,217, dated July 18, 1871.

To all whom it may concern:

Be it known that I, SYLVESTER T. F. STERICK, of Georgetown, county of Washington, District of Columbia, have invented certain Improvements in Journal-Boxes and Axle-Bearings, of which the following is a specification:

The first part of my invention consists in providing a journal-box with anti-friction rollers, movable on pivots in such manner that said rollers shall be capable of revolving around the axle or shaft, and at the same time hold their positions without the wear usual to anti-friction journal-boxes furnished with rollers without the movable pivots. The second part of my invention relates to the combination of the rollers above described with a revolving frame, in which said rollers are placed, as shown in the drawing, in the journal-box, and revolving in an opposite direction to the revolutions of said rollers, thereby relieving them of the strain which would otherwise be brought upon them.

The following is a description of the accompanying drawing, like letters referring to like parts:

Figure 1 is a sectional end view of the journal and axle-bearing. Fig. 2 is a longitudinal section of the same.

A A is the main box, which is cast in one or two pieces, with a thread cut in the outer end and on the inside of the same, as shown in the drawing, the cap or end cover C' screwing therein, by a counter-screw thread on the same, and preventing a forward movement of the pivot-frame.

B is the pivot-frame, constructed, as shown, of lantern-shape, and capable of holding the pulleys in position, and at the same time allowing them full play in their revolutions as well as play for itself. C C C are the pulleys set in the plates at the ends of said frame, and can be removed at pleasure. D is the axle, secured in any suitable manner. E is the groove on the inner periphery of the outer box to prevent too much lateral play of the rollers, and C' is the cap which screws on the outer end of the box. In the center of the box, running at right angles to the frame B, is a bead of metal, *d' d'*, which fits into the central grooves *m' m'* of the rollers, allowing sufficient lateral motion, and at the same time keeping them in proper position.

The operation is clearly shown by the drawing.

What I claim, and desire to secure Letters Patent for, is—

1. An axle-bearing, composed of rollers with movable pivots and a revolving frame, the whole constructed and operating in the manner shown and described.

2. An axle-bearing or journal-box, composed of rollers with movable pivots, a revolving frame with a flange upon said box on the inner side, the whole constructed and arranged to operate in the manner described and set forth.

SYLVESTER T. F. STERICK.

Witnesses:

H. L. SHEERWOOD,
GEORGE T. MASON.