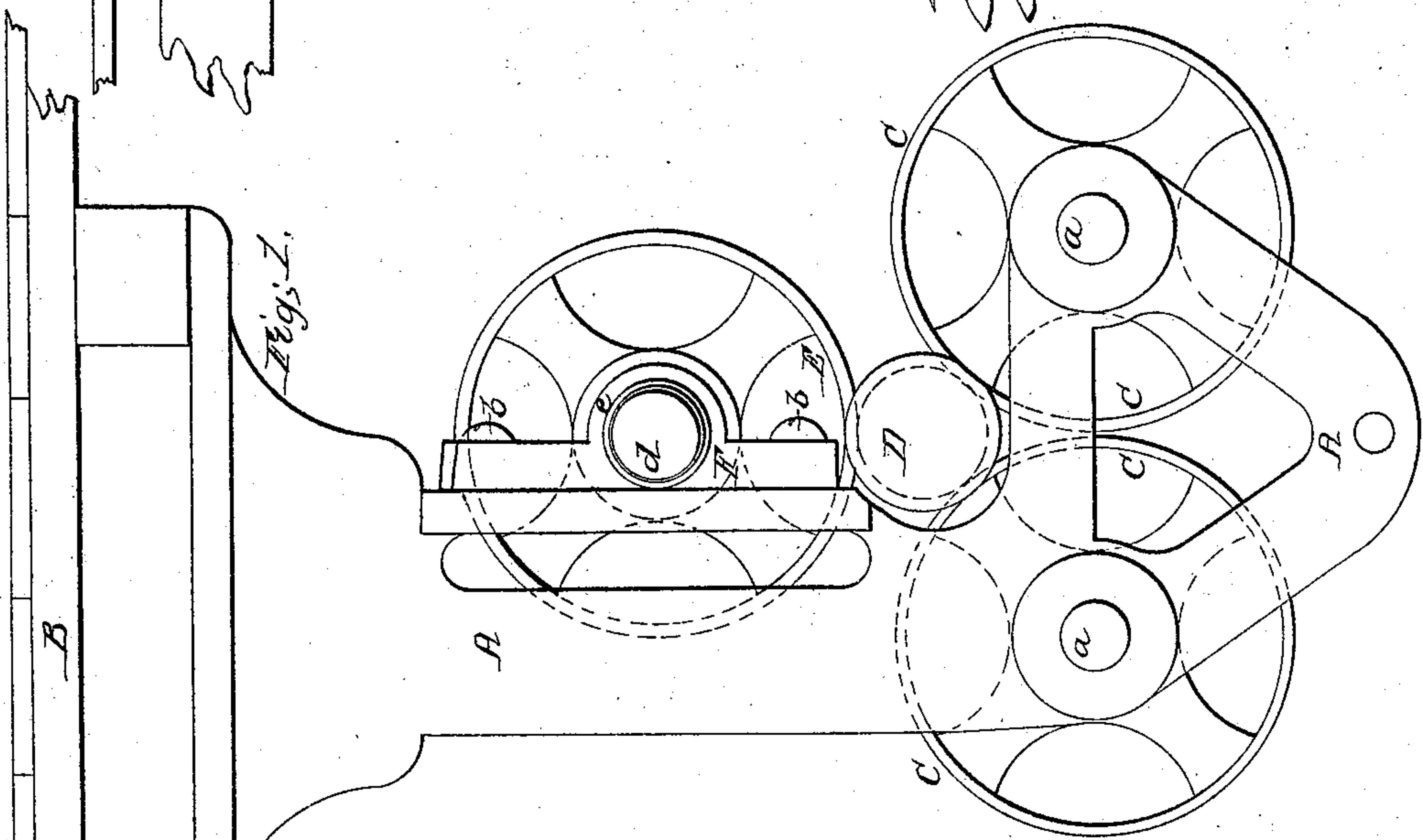
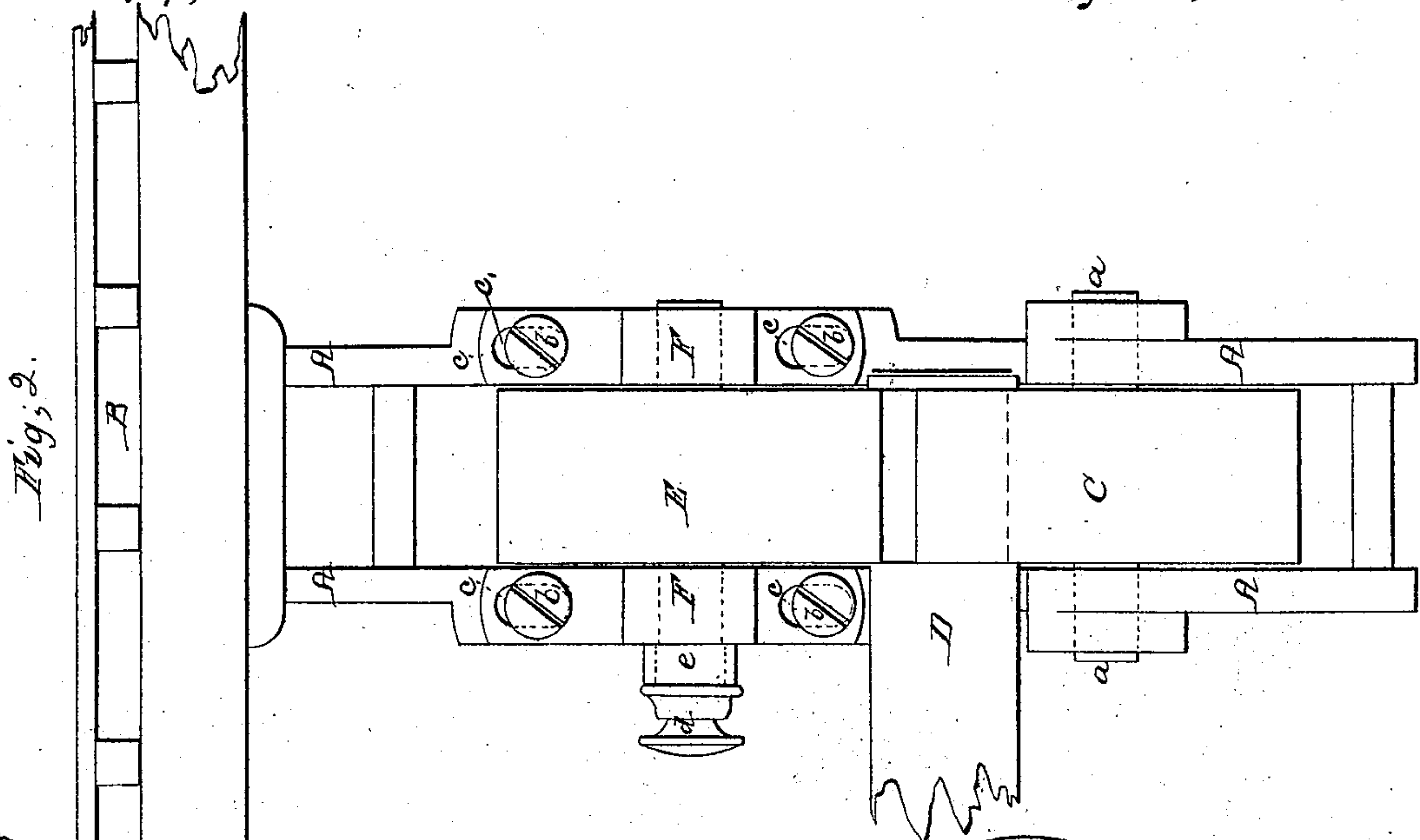


J. S. Mitchell,
Shaft Hanger.

No 44, 105.

Patented Sep. 6, 1864.



Witnesses;
C. P. Hale Jr
Frederick C

Inventor;
Jno. S. Mitchell
per his attorney
R. H. Eddy

UNITED STATES PATENT OFFICE.

JOHN S. MITCHELL, OF SOUTH BOSTON, MASSACHUSETTS.

IMPROVEMENT IN SHAFT-HANGERS.

Specification forming part of Letters Patent No. **44,105**, dated September 6, 1864.

To all whom it may concern:

Be it known that I, JOHN S. MITCHELL, a resident of South Boston, in the county of Suffolk and State of Massachusetts, have invented an Improved Shaft-Hanger; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 denotes a side elevation, and Fig. 2 a front view, of it.

The nature of my invention consists in an improved shaft-hanger as made with a supporting-bracket, three bearing-wheels, and certain adjustable boxes, arranged and applied together, and so as to give support to the journal of a shaft, substantially in manner as hereinafter described.

The bracket A is an open frame, formed as shown in the drawings, it being so made as to be capable of being screwed or otherwise applied to the ceiling B of an apartment, and of projecting downward therefrom. This bracket contains two rollers or anti-friction wheels, C C, whose peripheries are nearly in contact, and whose journals *a a* are on a level and are supported within bearings made within the frame, and so that each of the said wheels may be capable of freely revolving within the frame. The shaft D to be supported rests on and between the peripheries of both of the wheels C C, and is kept in place thereon by means of a third roller or anti-friction wheel, E, whose circumference is in contact with the upper part of the shaft, or the journal thereof, which rests on the wheels C C. The journals of the

wheel E are sustained by two adjustable boxes, F F, each of which is held to the bracket A by means of two clamp-screws, *b b*, which screw into the bracket and go through slots *c c* made through the boxes and so as to enable the boxes to be raised and lowered on the screws and with respect to the shaft. By lowering the screws the boxes with the upper wheel may be raised so as to admit the shaft to be either removed from the supporting-wheels C C or applied to them, as circumstances may require.

With my invention the journal of the shaft is supported by anti-friction wheels or rollers, and of course will run with less friction than if it were supported in an ordinary box.

An oil cup or holder, *e*, provided with a screw-stopper, *d*, to an opening made in its side, may be applied to the bearing of either journal of the anti-friction wheels. This cup may contain a lubricating-fluid and a sponge or means of applying such fluid to the journal.

I do not claim supporting a journal by a series of friction-wheels or rollers.

What I do claim as my invention is—

The improved shaft-hanger, as composed of the supporting-bracket A, the three wheels or rollers C C E, and the adjustable boxes F F, arranged and combined in manner and so as to operate substantially as specified.

J. S. MITCHELL.

Witnesses:

R. H. EDDY,

F. P. HALE, Jr.