

No. 775,660.

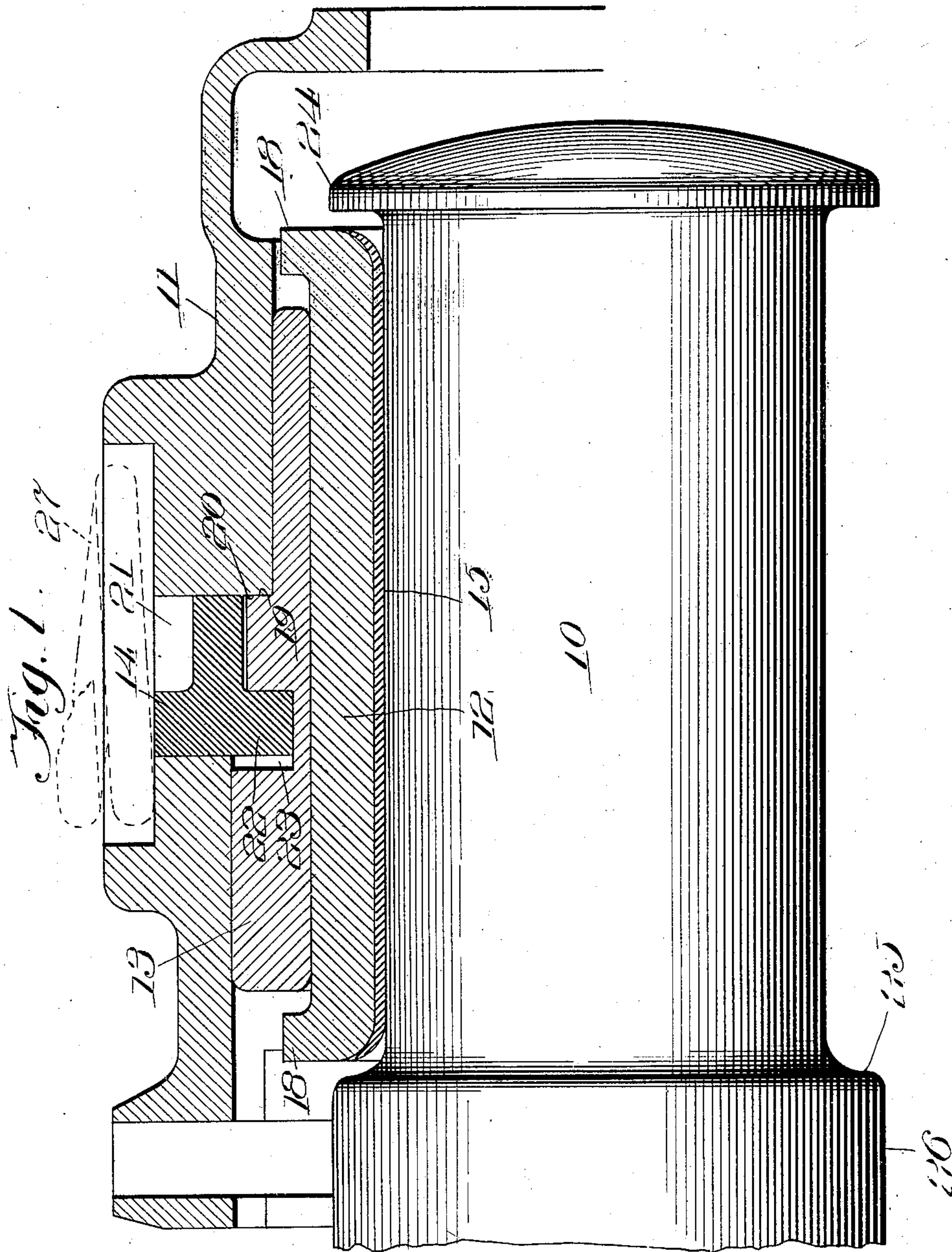
PATENTED NOV. 22, 1904.

H. V. KUHLMAN.
JOURNAL BEARING.

APPLICATION FILED MAR. 14, 1904.

NO. MODEL.

2 SHEETS—SHEET 1.



Witnesses:

H. S. Gaither
Paul Schuchel

Inventor:

Henry V. Kuhlman
by Wm. J. Bell
attorney

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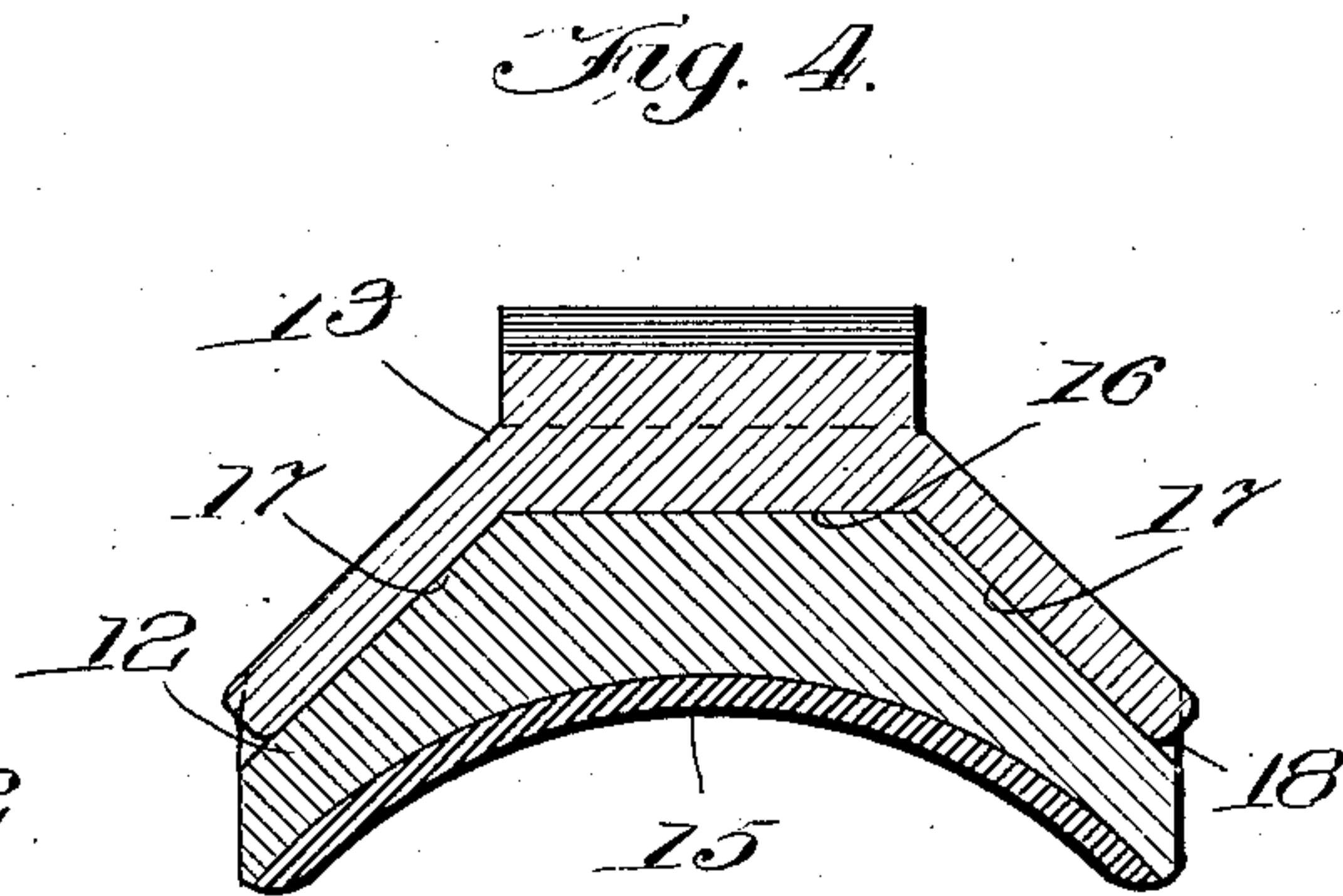
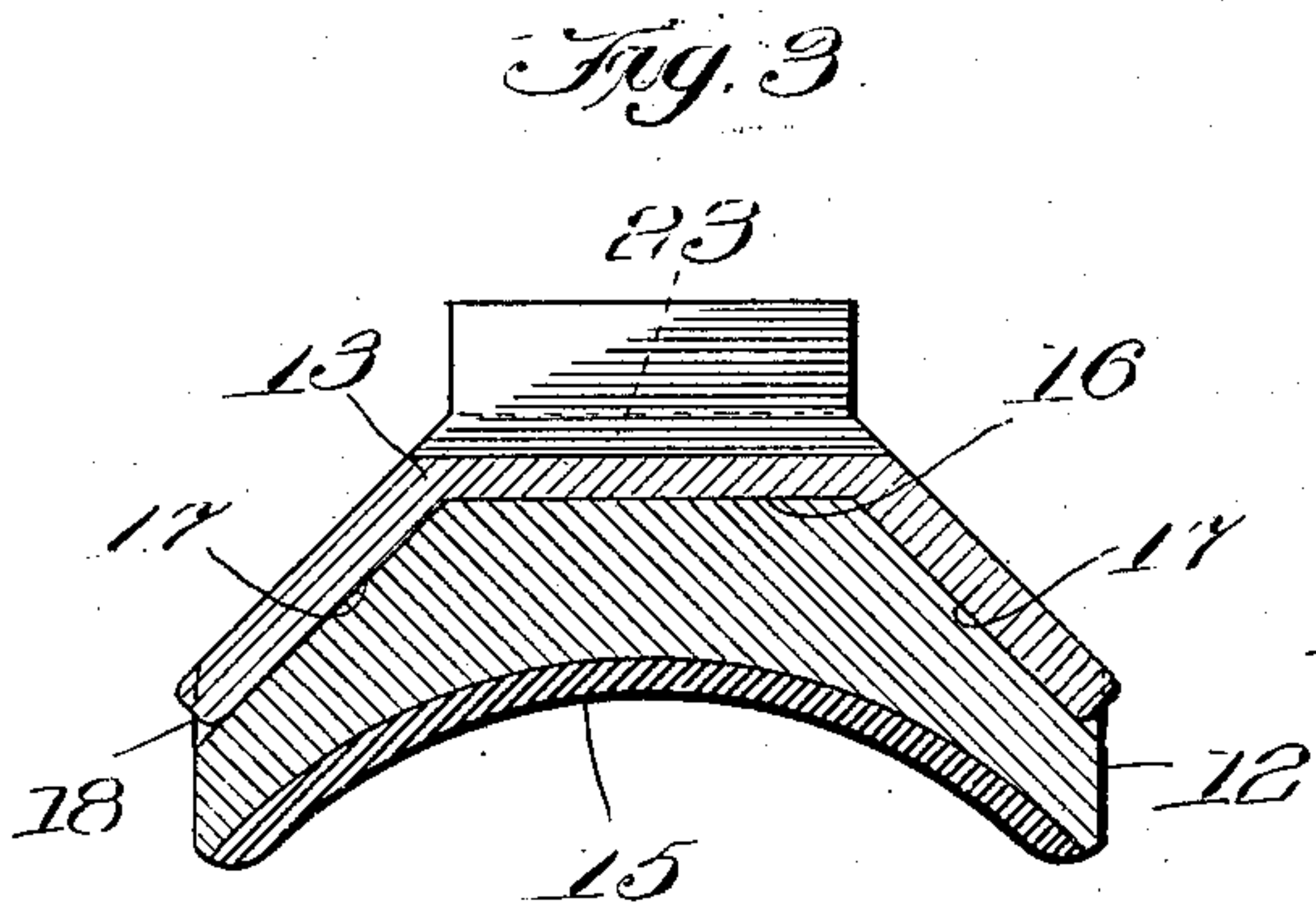
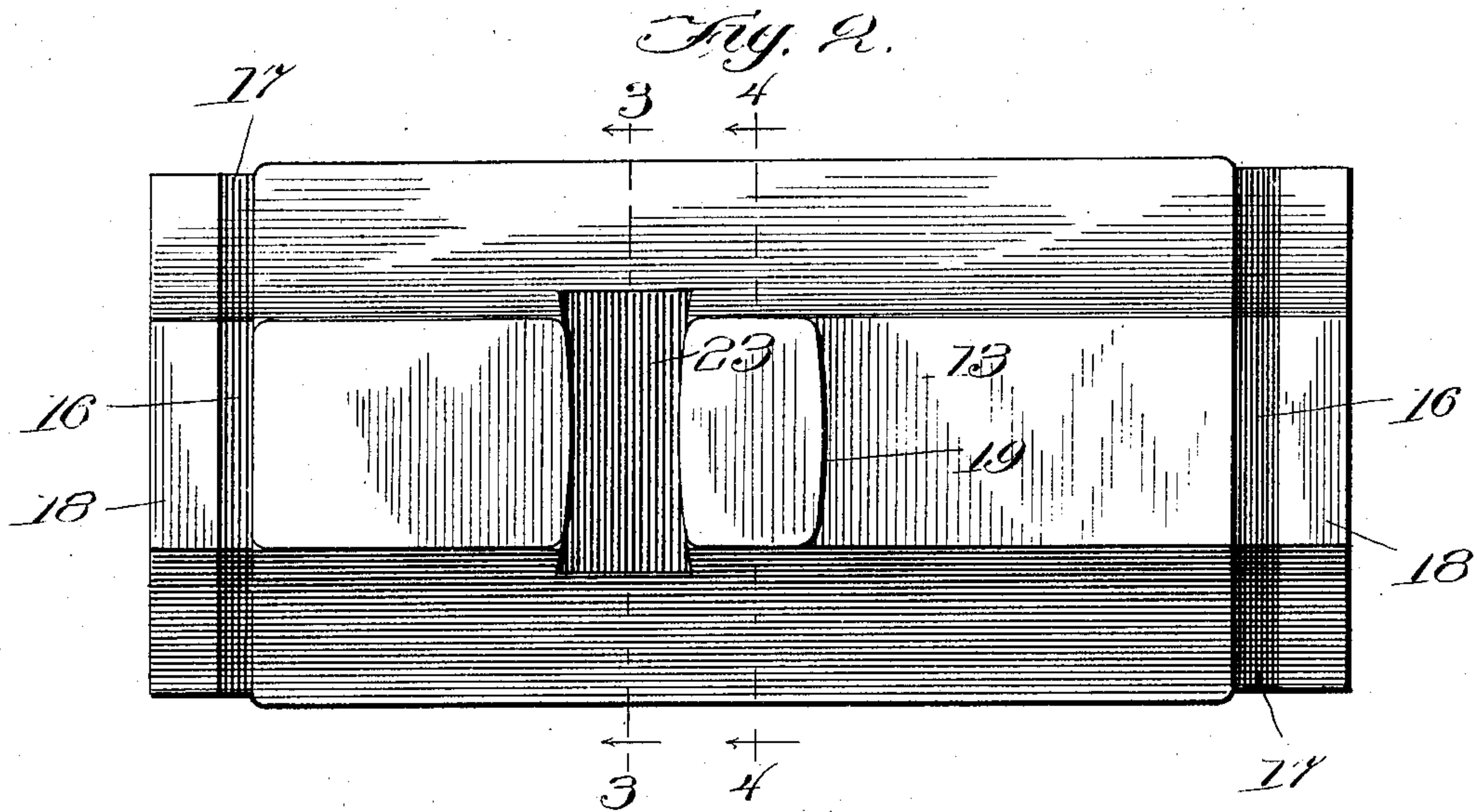
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NO MODEL

2 SHEETS—SHEET 2.



Witnesses:
H. S. Gaither
Paul Schmiedel

Inventor:
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UNITED STATES PATENT OFFICE.

HENRY V. KUHLMAN, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF
TO GEORGE A. WOODMAN, OF CHICAGO, ILLINOIS.

JOURNAL-BEARING.

SPECIFICATION forming part of Letters Patent No. 775,660, dated November 22, 1904.

Application filed March 14, 1904. Serial No. 197,955. (No model.)

To all whom it may concern:

Be it known that I, HENRY V. KUHLMAN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Journal-Bearings, of which the following is a specification.

This invention relates to car-journal bearings; and its object is primarily to provide a bearing of simple construction adapted to move endwise to accommodate itself to the end thrust of the journal and to avoid the wear which usually occurs at the ends of the brass.

This invention has other objects in view, which will appear hereinafter in the detail description of the bearing, as shown in the accompanying drawings, which illustrate one manner of making the invention, and in which—

Figure 1 is a sectional view of the bearing and a portion of the journal-box shown in proper relation to the journal. Fig. 2 is a top plan view of the brass with the wedge in place thereon. Figs. 3 and 4 are sectional views on lines 3-3 and 4-4, respectively, of Fig. 2.

Referring to the drawings, 10 designates the journal; 11, the journal-box; 12, the brass; 13, the wedge, and 14 the locking-key. The brass is made with a curved face, which may be lined with Babbitt metal 15 to fit the journal, and its back is made with a flat top 16 and flat inclined sides 17, extending longitudinally. The brass is provided with stops to engage the wedge and limit the play of the brass, and for this purpose I preferably provide an upturned flange 18 at each end of the brass to engage the ends of the wedge. The wedge is of less length than the distance between the end stops on the brass to permit the brass to have a limited amount of play endwise, and thus provide for the end thrust of the journal. The wedge is shaped to fit the back of the brass, as shown in Figs. 3 and 4, and it is held rigidly in place in the construction illustrated by the shoulder 19, which engages a shoulder 20 on the box, and by the

locking-key 14, which fits in an opening 21 in the top of the box, and is provided with an arm 22, which enters an opening 23 in the top of the wedge. The locking-key is held in place by the car-spring 27.

It is a well-known fact that the end thrust of the car-journal in service causes the collar 24 and the shoulder 25 of the dust-guard collar or seat 26 to wear the ends of the brass very materially, because the brass has heretofore been held against endwise movement, and was therefore incapable of adjusting itself to the end thrust of the journal. In my improved bearing the brass is capable of an endwise movement in both directions to accommodate the endwise movement of the journal, which will prevent the wear at the ends of the brass and enable the brass to move freely endwise to a limited degree between the wedge and the journal. The endwise movement of the brass is limited by the engagement of the end stops 18 with the ends of the wedge, and this movement of the brass can be increased or decreased by correspondingly changing the amount of play provided between the wedge and these end stops. This play of the brass relative to the wedge also enables the brass to form an even and proper bearing for the journal in all positions assumed in its endwise movement and avoids the excessive friction heretofore occasioned by the wearing engagement of the collars 24 25 with the ends of the brass. It will be understood, of course, that I do not confine myself to the use of the particular means herein shown and described for fastening the wedge in the box.

Without limiting myself to the exact construction, proportion, and arrangement of parts herein shown and described, what I claim as new, and desire to secure by Letters Patent, is—

1. A journal-bearing comprising a brass, there being stops on the back of the brass at each end thereof, and a relatively fixed wedge seated on the brass and of less length than the distance between the stops to hold the brass in proper position on the journal and

permit it to move endwise relative to the wedge to accommodate itself to the end thrust of the journal.

2. A journal-bearing comprising a brass
5 having its back formed with a flat top and inclined sides extending longitudinally, there being upturned flanges at each end of the brass, and a wedge shaped to fit on the back

of the brass and of less length than the distance between said flanges to allow the brass to have a limited endwise play relative to the wedge.

HENRY V. KUHLMAN.

Witnesses:

WM. O. BELT,
PAUL SCHMECHEL.