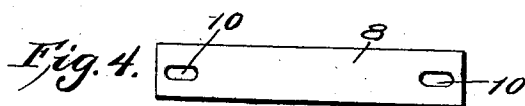
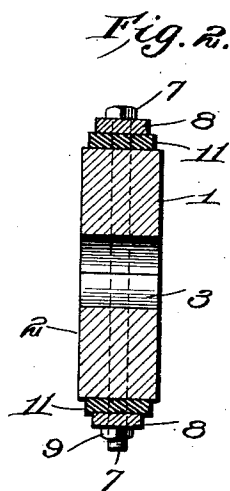
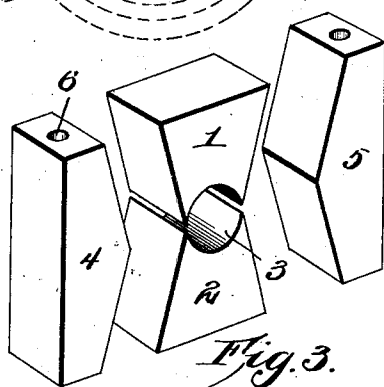
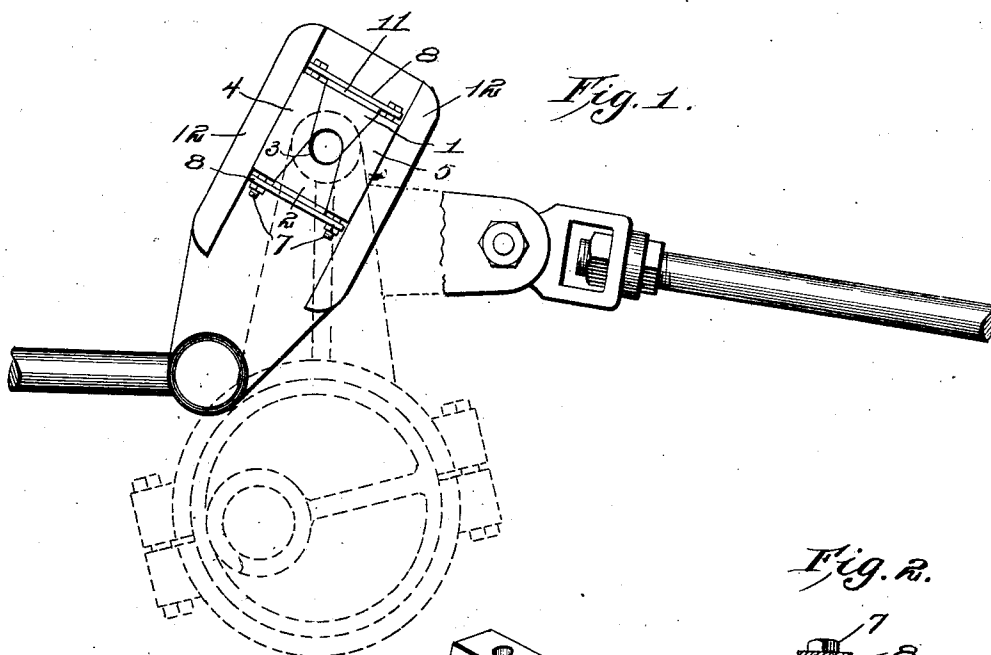


No. 826,209.

PATENTED JULY 17, 1906.

A. WINKLER.  
BEARING BOX.

APPLICATION FILED OCT. 13, 1905.



Witnesses

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# UNITED STATES PATENT OFFICE.

ANDREW WINKLER, OF HUMPHREY, NEBRASKA.

## BEARING-BOX.

No. 826,209.

Specification of Letters Patent.

Patented July 17, 1906.

Application filed October 13, 1905. Serial No. 282,645.

*To all whom it may concern:*

Be it known that I, ANDREW WINKLER, a citizen of the United States, residing at Humphrey, in the county of Platte and State of Nebraska, have invented certain new and useful Improvements in Bearing-Boxes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to sliding bearing-boxes such as used in connection with the reversing-gear of engines of certain types.

The object of the invention is to provide a box which can be quickly adjusted so as to spread laterally to take up wear and to contract the opening therein so as to compensate for any wear produced by the shaft extending therethrough.

The box consists of two oppositely-disposed similar members having their inner adjoining faces converging toward the center and adapted to fit upon opposite faces of two similar bearing-blocks, each of which is substantially in the form of a keystone and has a semicylindrical recess in its small end, constituting a working face. Cross-plates are adjustably connected to the side blocks, and by drawing these plates toward each other the intermediate bearing-blocks are adapted to be drawn together and at the same time act as wedges to spread apart the side blocks. The invention also consists of certain other novel features of construction and combination of parts, which will be hereinafter more fully described, and pointed out in the claims.

In the accompanying drawings I have shown the preferred form of my invention.

In said drawings, Figure 1 is a view showing my improved bearing-box mounted within a portion of the reversing-gear of an engine, some of said gear being shown by dotted lines. Fig. 2 is a central longitudinal section through the box. Fig. 3 is a view showing in detail the four blocks constituting the bearings of the box, and Fig. 4 is a detail view of one of the connecting-plates.

Referring to the figures by numerals of reference, 1 and 2 are oppositely-disposed intermediate bearing-blocks which are similar in form. These blocks are substantially keystone-shaped or tapered, and their adjoining

or small ends are provided with semicylindrical recesses 3, which are adapted to receive the element working within the box. Disposed at opposite sides of the intermediate blocks 1 and 2 are side blocks 4 and 5, which are similar in form and which have their inner faces beveled from the center, so as to conform to the angles of the sides of blocks 1 and 2. Each of these side blocks has a passage 6 extending longitudinally through it, and the two passages are adapted to receive bolts 7, which extend through the ends of connecting-plates 8 and have nuts 9 upon them for tightening the parts of the box. These bolts extend through slots 10 within the plates 8, and by interposing suitable packing 11 between the plates and the intermediate blocks 1 and 2 said blocks will be forced toward each other whenever the bolts are tightened within the blocks 4 and 5, and any wear upon the working faces of said blocks will therefore be taken up. This movement of the blocks 1 and 2 toward each other will also serve to spread the side blocks 4 and 5 apart, so as to take up wear caused by the reciprocation of the box within the guides 12 provided for it. It will be seen that by utilizing a box such as herein described the same can be spread laterally and contracted about the element extending therethrough simultaneously simply by tightening the nuts 9 upon the bolts 7. The slots 10 permit lateral movement of the blocks 4 and 5 during their adjustment.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A bearing-box consisting of tapered intermediate blocks having concave working faces, side blocks having beveled faces contacting with the sides of the intermediate blocks, connecting-plates upon said ends of the box, and adjusting means connecting the plates and extending through the side blocks, said plates adapted to force the intermediate blocks together to impart lateral movement to the side blocks.

2. The combination with a guide; of a box adapted to reciprocate therein and comprising tapered intermediate blocks having their adjoining faces recessed to form a bearing, similar side blocks having beveled faces and

interposed between the guides and the sides  
of the intermediate blocks, connecting-plates  
upon the ends of the box, and means extend-  
ing through the side blocks and connecting  
5 said plates to force the intermediate blocks  
together and simultaneously impart lateral  
movement to the side blocks.

In testimony whereof I have signed my  
name to this specification in the presence of  
two subscribing witnesses.

ANDREW WINKLER.

Witnesses:

E. H. LEACH,

A. J. LANGER.