

(No Model.)

W. B. LEWIS.
JOURNAL BEARING OR BRASS.

No. 552,767.

Patented Jan. 7, 1896.

Fig. 1.

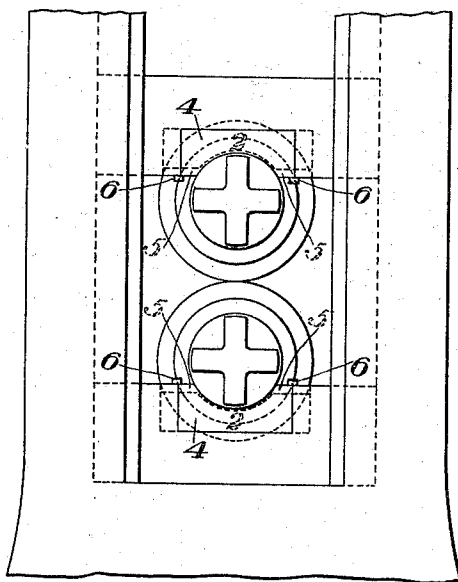


Fig. 2.

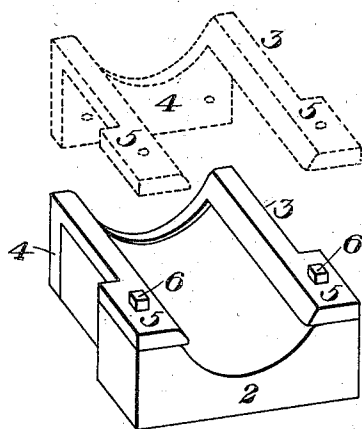
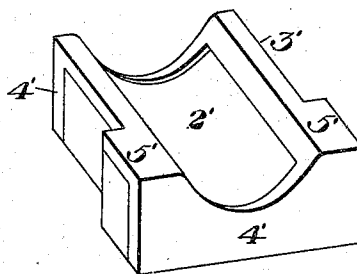


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM B. LEWIS, OF WHEELING, WEST VIRGINIA.

JOURNAL BEARING OR BRASS.

SPECIFICATION forming part of Letters Patent No. 552,767, dated January 7, 1896.

Application filed September 26, 1895. Serial No. 563,718. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM B. LEWIS, of Wheeling, in the county of Ohio and State of West Virginia, have invented a new and useful Improvement in Journal Bearings or Brasses, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, wherein—

Figure 1 is a partial end elevation of a roll-housing provided with my improved brasses. Fig. 2 is a detail perspective view of one of my brasses, and Fig. 3 is a similar view of a modified form of the same.

My invention relates more especially to the brasses for the necks of the rolls used in rolling-mills, but is applicable generally to journal bearings or brasses for shafts of all descriptions. Heretofore these brasses have been cast in one piece with a recess for the antifriction metal, which is cast in and fills the same. With such brasses, when the antifriction metal has been worn away, the portions of the brass which form the sides of the recess are worn away at the same time, so that it is impossible to rebabbit the brass, as there is no recess to hold the metal, and, consequently, the entire brass, weighing sometimes several hundred pounds, must be thrown away. My invention entirely overcomes this difficulty; and it consists in casting the brass in two separable parts, one part having the portions which project above the other part and form a recess for the antifriction metal, so that when such metal and the portions of the brass forming the recess have been worn away the one part of the brass may be replaced by a new part, thus using the main body of the brass over and over again.

In the drawings, in which similar numerals indicate corresponding parts, 2 indicates the body portion of the brass, having the usual semicylindrical recess for the neck of the roll, and 3 is the other separable part of the brass, having an end plate 4 and top wings 5 5. This second separable portion, as shown, projects above the body portion, and the top wings extend inwardly slightly, so that a recess is formed to receive the antifriction metal. The two parts of the brass are secured together by suitable pins or screws 6, and it is apparent

that when the antifriction metal is worn away together with the projecting portions of the end plate and top wings the separable rim portion may be taken off and thrown away and a new part substituted therefor, upon which the Babbitt or other metal may be again cast in place and the body of the brass reused.

In Fig. 3 a slightly-modified form is shown, which is adapted for shafts of all characters, this brass consisting of the body portion 2' and the separable portion 3', having the two end plates 4' 4', connected by the top wings 5' 5', thus forming an entirely-inclosed recess to receive the antifriction metal.

The advantages of my invention will be apparent to those skilled in the art, since the loss resulting from the necessity of throwing away the entire brass is done away with and a great saving is effected, the portion of the brass which is replaced being of light weight and comparatively small cost.

Many variations may be made in the form and arrangement of the two portions of the brass, since

I claim—

1. A brass consisting of a body portion having a substantially semi-cylindrical recess in its face and a separate part consisting of at least one end plate which projects beyond the end of the body and forms an end shoulder to hold the anti-friction metal in place, and plates or wings extending therefrom over the face of the body portion; substantially as described.

2. A brass, consisting of a body portion having a substantially semi-cylindrical recess in its face and a separate part consisting of at least one end plate which projects beyond the end of the body and forms an end shoulder to hold the anti-friction metal in place, and plates or wings extending therefrom and projecting inwardly over the edges of the semi-cylindrical recess in the body; substantially as described.

In testimony whereof I have hereunto set my hand.

WILLIAM B. LEWIS.

Witnesses:

JAMES C. BOYCE,
C. BYRNES.