

(No Model.)

J. H. MORRISON.

DEVICE FOR BABBITTING JOURNAL BOXES.

No. 367,432.

Patented Aug. 2, 1887.

Fig. 1.

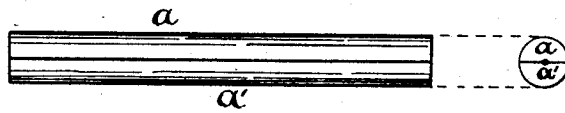


Fig. 2.

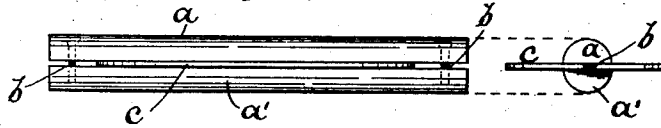
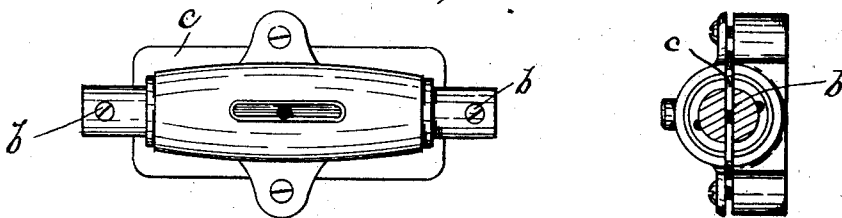


Fig. 3.



Witnesses:
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UNITED STATES PATENT OFFICE.

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DEVICE FOR BABBITTING JOURNAL-BOXES.

SPECIFICATION forming part of Letters Patent No. 367,432, dated August 2, 1887.

Application filed December 23, 1886. Serial No. 222,353. (No model.)

To all whom it may concern:

Be it known that I, J. HENRY MORRISON, a citizen of the United States, residing at Norwich, New London county, Connecticut, have invented a certain new and useful Improvement in Devices for Babbitting Journal-Boxes, which improvement is fully set forth and described in the following specification, reference being had to the accompanying drawings.

My improved device is intended for use with that class of boxes or bearings into which molten Babbitt metal is poured to provide a closely-fitting and serviceable bearing for swiftly-revolving shafts.

My object is to provide a simple and inexpensive device which may be used repeatedly and by means of which a true circular seat may be formed for the revolving shaft, avoiding the necessity of "grinding in" the bearings so common heretofore.

So far as I am acquainted with the state of the art, it has been the universal practice among mechanics to place pieces of paper or card-board lengthwise one on each side of the solid core around which the metal is to be poured. These pieces of paper form parting-strips to prevent the metal in one half of the box from flowing into the other half part, and thus forming a continuous ring or collar of Babbitt metal around said core. When pieces of card-board are thus interposed, it will be obvious that the two half parts of the box are wedged apart a distance sufficient to break the perfect circle which said parts describe when properly assembled for use, and, although the circle may be so slightly distorted that it could not be detected by the eye, it is plainly evident by the binding of the shaft when the parts are assembled for use.

In order to explain more clearly my invention, I have annexed hereto a sheet of drawings, in which—

Figure 1 shows my improved two part core as it appears when first turned into shape. Fig. 2 shows the same with my parting-plate clamped between the two half parts of said core. Fig. 3 shows top and end views of a box with said core and parting-plate in position ready for the molten Babbitt metal.

Instead of using a solid core, as heretofore, I have provided a core formed in two companion half parts, *a a'*, said parts being clamped together by screws *b b'*. This core is formed by screwing two sections of iron or other suitable metal together, then carefully centering the same and turning them down to the proper diameter. After having thus formed the core I loosen the clamping-screws *b b'* and slip in between the two core-sections a plate, *c*, of iron, sheet-steel, or similar material, which is to form an indestructible parting-plate to be used in place of the card-board above referred to. This plate is then firmly clamped in position by turning the screws *b b'* home. The thickness of said plate is immaterial, as no matter whether thick or thin the separated companion sections of the core each represent a perfect half-circle in cross-section. When it is desired to Babbitt a box, a core corresponding in diameter to the shaft which is to run in the bearing is placed in said box, as shown in Fig. 3, the parting-plate resting between the two sections of the box. The parts thus assembled are clamped together and the Babbitt metal introduced in the usual manner. After cooling, the boxes are separated on the line of the parting-plate, the core is removed, and when the box-sections are again brought together the two half parts form a perfect circle without the grinding process before spoken of.

My device as described not only saves valuable time, but performs more perfect work than can possibly be done by the use of paper with a solid core.

Having thus described my invention, I claim—

The within-described device for babbitting journal-boxes, consisting of a shaft formed of two companion sections each semicircular in cross-section, combined with a parting-plate of suitable material and thickness and securely clamped between said companion sections, substantially as and for the purpose specified.

J. HENRY MORRISON.

Witnesses:

FRANK H. ALLEN,
TYLER J. HOWARD.