J. MacE. MAYNARD.

BABBITTING DEVICE.

APPLICATION FILED FEB. 9, 1909.

922,012. Patented May 18, 1909.

Fig. 1.

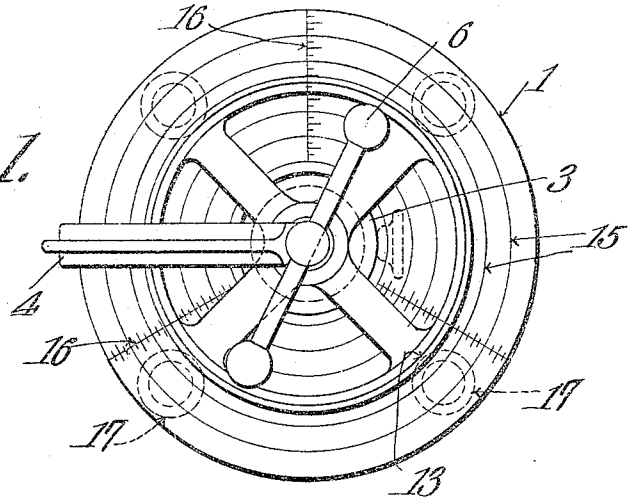
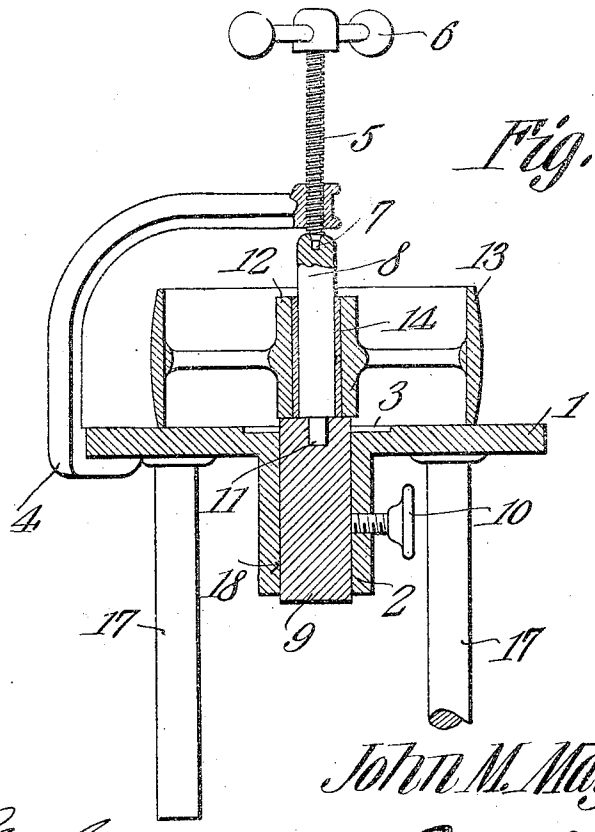


Fig. 2.



Witnesses

E. F. Stewart

Mason B. Lawton

Inventor

John M. Maynard.

By Crow & Co.

Attorneys

UNITED STATES PATENT OFFICE.

JOHN MacE. MAYNARD, OF HICKORY, NORTH CAROLINA.

BABBITTING DEVICE.

No. 922,012. Specification of Letters Patent. Patented May 18, 1909.

Application filed February 9, 1909. Serial No. 476,909.

To all whom it may concern:

Be it known that I, JOHN MacE. MAYNARD, a citizen of the United States, residing at Hickory, in the county of Catawba and State of North Carolina, have invented a new and useful Babbitting Device, of which the following is a specification.

The objects of the invention are, generally, the provision, in a merchantable form, of a device of the class above specified which shall be inexpensive to manufacture, facile in operation and devoid of complicated parts; the provision of a base plate having graduations whereby the pulley which is to be babbitted may accurately be centered upon the said base plate; of a core of novel and improved construction; and of novel means for assembling the core with the base plate; other and further objects being made manifest hereinafter as the description of the invention progresses.

The invention consists in the novel construction and arrangement of parts hereinafter described, delineated in the accompanying drawings and particularly pointed out in that portion of this instrument wherein patentable novelty is claimed for certain distinctive and peculiar features of the device, it being understood that within the scope of what hereinafter is thus claimed, divers changes in the form, proportions, size, and minor details of the structure may be made, without departing from the spirit or sacrificing any of the advantages of the invention.

Similar numerals of reference are employed to denote corresponding parts throughout the several figures of the drawings.

In the accompanying drawings:—Figure 1 shows my invention in top plan; Fig. 2 is a vertical transverse section thereof, the parts being shown in elevation.

In carrying out my invention, I provide, primarily, a base-plate 1, which if desired may be spaced from the support upon which it is mounted by means of legs 17. The base-plate 1 is provided with a depending collar 2, having an axial bore 18 extending upward through the base-plate 1. The base-plate 1 is centrally depressed about the mouth of the bore 18, as denoted by the numeral 3, and is provided with an arm 4, preferably attached to the edge of the said base-plate, and being inwardly bent to extend over the opening 18 in the base-plate. The terminal of the arm 4 is apertured to receive a keeper. In the present instance this aperture in the end of the arm 4 is threaded, and the keeper takes the form of a threaded member 5, adapted to register in the threaded aperture in the arm 4. At its upper end this threaded member 5 carries a transversely disposed handle 6, and at its lower end is reduced in diameter as denoted by the numeral 7.

Slidably mounted in the collar 2 is an eye 9 arranged to be retained by a set screw 10, which is radially inserted into the collar 2. The eye 9 upon its upper surface is provided with an aperture arranged to receive the reduced lower terminal 11 of the core 8, which said core 8 has in its upper terminal an axial opening designed to receive the reduced end 7 of the threaded element 5.

The base-plate 1 is provided upon its upper surface with suitable scales whereby the pulley 13, which is to be babbitted may accurately be centered upon the base-plate. These centering means may take any form; preferably however, as shown, they comprise a plurality of circles 15, concentric with each other and with the bore 18. The upper face of the base-plate 1 carries scales 16, which, as shown, may be three in number. The scales 16 are disposed radially with respect to the opening in the center of the base-plate 1, and are provided with suitable graduations, the corresponding graduations of the several scales being equidistant from the axis of the bore 18.

When it is desired to babbitt a pulley the threaded member 5 is rotated upward to house the reduced end 7 in the arm 4. The core 8 is then introduced into the bearing 12 of the pulley 13 and the pulley slid into position beneath the terminal of the arm 4. The set screw 10 being loosened, the eye 9 is moved upward, engaging the portion 11 of the core 8, the upper face of the eye 9 being brought into contact with the lower face of the bearing 12 of the pulley. The threaded member 5 is then rotated downward, bringing the reduced end 7 thereof to register in the aperture in the top of the core 8, the set screw 10 having been first rotated to secure the eye 9 in position. The pulley 13 is then moved until the various markings 15 and 16 upon the top of the base-plate 1 show that the said pulley is in proper position with respect to the core 8. The babbitt 14 is then poured into place and allowed to harden.

When it is desired to remove the core from the pulley, the set screw 10 is loosened and

the threaded element 5 rotated to loosen the core from the babbitt. The core 8 having thus been loosened, the pulley 13 may be removed from the device, the threaded member 5 having been rotated upward to free the portion 7 thereof from the said core 8.

It is to be understood that my invention contemplates the use of a plurality of interchangeable cores, whereby bearings of different sizes may be babbitted. When the eye 9 is in the position shown in Fig. 2 it will be seen that the bottom of the bearing 12 of the pulley is closed, so that the babbitt can not find its way downward and outward. Any small dripping of babbitt which might find its way between the bearing 12 of the pulley and the eye 9 will be received by the depressed central portion 3 of the base-plate 1 and there retained.

The device presents, in a simple and compact form, a means whereby a pulley may be quickly babbitted, and the parts of my invention are so proportioned and assembled that the core 8 is at all times maintained in a position normal to the base-plate 1, thus securing a true-running pulley.

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

1. A device of the class described comprising a base-plate; an eye adjustably mounted in the base-plate; a core removably mounted in the eye; and means carried by the base-plate for retaining the core normal to the base-plate.

2. A device of the class described comprising a base-plate; an eye adjustably mounted in the base-plate; a core removably mounted in the eye; an arm projecting from and over the base-plate; a keeper adjustably mounted in the arm and being arranged to engage the top of the core.

3. A device of the class described comprising a base-plate; an eye adjustably mounted in the base-plate; a core removably mounted in the eye; an arm projecting from and over the base-plate; a threaded member journaled for rotation in the arm and being arranged to engage the top of the core.

4. A device of the class described comprising a base-plate; an eye adjustably mounted in the base-plate; an arm projecting from and over the base-plate; a keeper adjustably mounted in the arm; a core mounted between the eye and the keeper, the eye, keeper, and the core being provided with interlocking elements.

5. A device of the class described comprising a base-plate; an arm projecting from and over the base-plate; a threaded member rotatably mounted in the arm; a core having its upper end in engagement with the threaded member; and means carried by the base-plate for supporting the core.

6. A device of the class described comprising a base-plate; an arm projecting from and over the base-plate; a core, and means carried by the base-plate for supporting the core; and a keeper adjustably mounted in the arm and arranged to engage the upper terminal of the core.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN MacE. MAYNARD.

Witnesses:
W. T. SLEDGE,
R. W. STEVENSON.