A. G. MOGAN.

KEYING DEVICE.

APPLICATION FILED MAY 28, 1914.

1,185,340.

Patented May 30, 1916.

Fig. 1.

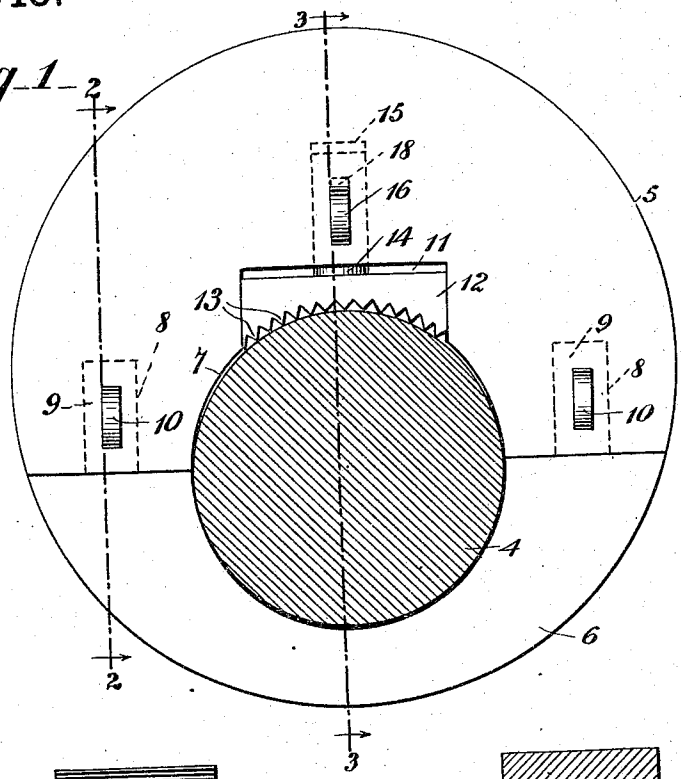


Fig. 2.

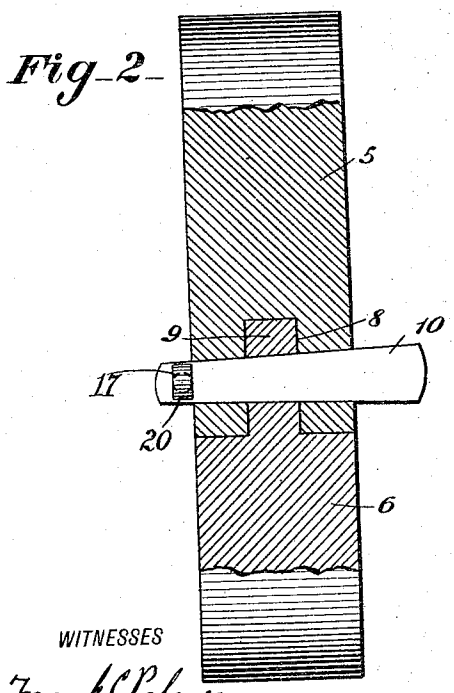
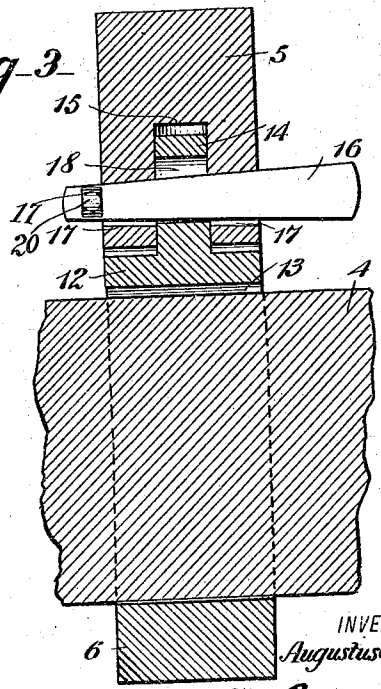


Fig. 3.



WITNESSES

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AUGUSTUS GILMORE MOGAN, OF NATALBANY, LOUISIANA.

KEYING DEVICE.

1,185,340. Specification of Letters Patent. Patented May 30, 1916.

Application filed May 28, 1914. Serial No. 841,533.

To all whom it may concern:

Be it known that I, AUGUSTUS G. MOGAN, a citizen of the United States, residing at Natalbany, in the parish of Tangipahoa and State of Louisiana, have invented certain new and useful Improvements in Keying Devices, of which the following is a specification.

My invention relates to eccentrics, my more particular purpose being to provide an eccentric made in parts and provided with means for readily securing it firmly upon a shaft so as to avoid the use of shaft keys, studs, bolts, nuts and set screws.

Reference is made to the accompanying drawings forming a part of this specification, and in which like letters indicate like parts.

Figure 1 is a side view partly in elevation and partly in section, showing my improved eccentric as applied to a shaft. Fig. 2 is a section, on the line 2—2 of Fig. 1, looking in the direction of the arrow. Fig. 3 is a section, on the line 3—3 of Fig. 1, looking in the direction of the arrow.

A shaft 4 is of the usual or any desired construction. Mounted upon it are two parts 5, 6 of the eccentric, these parts together having an opening 7 of circular form into which the shaft 4 is fitted. The part 5 is provided with two openings 8, and the part 6 is provided with two lugs 9 which extend into these openings. Two draw keys are shown at 10, and each have the form of a wedge which extends through holes in the part 5 and in the lug 9. The part 6 is provided with a recess 11, and fitted into this recess is a block 12, which is provided with teeth 13 for engaging the shaft 4, as may be understood from Fig. 1. Mounted upon the block 12 is a lug 14 which fits into a hole 15. A draw key 16 extends through holes 17 in the part 5, and also through a hole 18 in the lug 14, as may be understood from Figs. 1 and 3. The draw key 16 and holes 17, 18 are so arranged relatively to each other that when the draw key 16 is forced into place, as indicated in Figs. 1 and 3, the teeth 13 of the block 12 are forced into close engagement with the shaft 4, the two parts 5 and 6 of the eccentric having been previously fitted together by the draw keys 16. The eccentric is thus rigidly secured upon the shaft 4. The draw keys are provided with holes 19, and fitting into these holes are cotter pins 20—the holes and keys being of the usual or any desired form.

The eccentric thus made is comparatively simple in construction and is very durable. It can be made cheaply, and when once placed properly upon the shaft will remain fixed thereupon for an indefinite period of time. While in this particular instance, I show the lugs 9 and 14 as cylindrical, I do not wish to be limited to this precise form. Neither do I limit myself to the precise shape disclosed for the block 12, as these parts may be given different form according to the precise relation in which they are to be used. Neither do I limit myself to any particular materials to be employed in the construction of the various parts.

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

A keying device for securing two mating parts fitting upon opposite sides of a shaft, one of said parts being provided with a central axial recess and a radially disposed central socket merging into said recess and holes at each side of said recess, a block fitted into said recess and a boss extending radially from said block into said socket and having an elongated slot therethrough, said block being further provided with teeth on its lower face for engaging the shaft, the other mating part being provided with lugs having tapered holes therethrough and extending into the holes at each side of the central recess, the first mentioned mating member having tapered openings in alinement with said tapered holes of the lugs, a tapered draw key extending diametrically through the central socket and boss therein, and tapered draw keys extending through the lugs at each side of the central recess.

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

AUGUSTUS GILMORE MOGAN.

Witnesses:
LE ROY J. MCGEE,
ORIN LE ROY BINNAY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents. Washington, D. C."