No. 769,559. PATENTED SEPT. 6, 1904.

T. W. R. McCABE.

CLOCK ARBOR, &c.

APPLICATION FILED MAR. 18, 1903.

NO MODEL.

Fig. 1

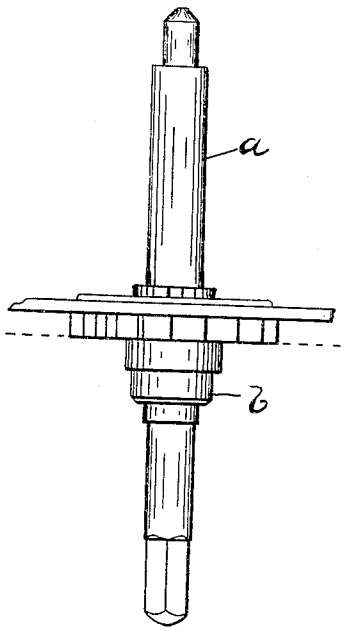


Fig. 2

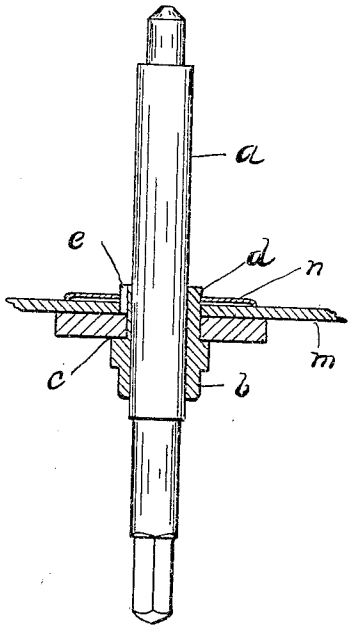


Fig. 3

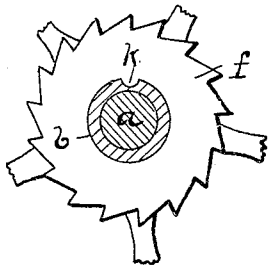
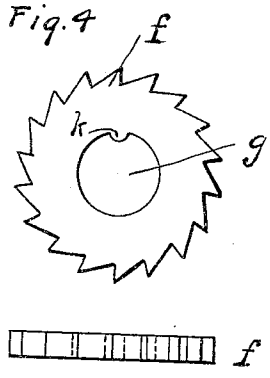


Fig. 4



Witnesses:
Mollie L. Burke
D. A. Steinmetzel.

Inventor,
Thomas W. R. McCabe
by Simons & Kent
his attorneys.

No. 769,559. Patented September 6, 1904.

UNITED STATES PATENT OFFICE.

THOMAS W. R. McCABE, OF WINSTED, CONNECTICUT, ASSIGNOR TO WM. L. GILBERT CLOCK COMPANY, OF WINSTED, CONNECTICUT, A CORPORATION OF CONNECTICUT.

CLOCK-ARBOR, &c.

SPECIFICATION forming part of Letters Patent No. 769,559, dated September 6, 1904.

Application filed March 18, 1903. Serial No. 148,345. (No model.)

To all whom it may concern:

Be it known that I, THOMAS W. R. McCABE, a citizen of the United States of America, residing at Winsted, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Clock-Arbors, &c., of which the following is a specification.

The object of my invention is to produce a device of the class specified having features of novelty and advantage, and especially a construction which can be manufactured and assembled at a very low cost.

In the accompanying drawings, Figure 1 is a view of the device assembled. Fig. 2 is a view similar to Fig. 1, but with parts in section. Fig. 3 is an end view of Fig. 1. Fig. 4 is a detail of the ratchet.

In the drawings, *a* denotes the arbor; *b*, a sleeve mounted thereon. This sleeve may be integral with the arbor, but preferably is a separate piece driven thereon and secured in place in any desirable manner. The sleeve *b* has a shoulder *c* and a reduced portion *d*, which is grooved lengthwise, as at *e*. In ordinary practice the arbor is turned up from a steel wire and the sleeve is turned up from brass and driven onto and secured to the arbor.

f is a ratchet, preferably stamped from sheet metal, pierced centrally, as at *g*, to fit upon the reduced portion *d* of the sleeve and having the projection *k* adapted to fit into the groove *e* and lock the ratchet to the groove.

In assembling the device the ratchet is forced into the sleeve, its projection *k* engaging the groove *e*. A wheel of the time-train (indicated at *m*) is then put in place and the parts held in position by the spring *n*.

In the manufacture of clocks of cheaper grades this construction is of great advantage, as it means a great saving in the metal from which the sleeve and ratchet are made. It is readily assembled and from a mechanical point of view is entirely practical.

I claim as my invention—

1. A device of the character described comprising an arbor, a sleeve mounted thereon, said sleeve being provided with a shoulder, a groove formed in the sleeve beyond said shoulder, and a ratchet-wheel carried by said arbor and formed with a projection adapted to engage with said groove, substantially as described.

2. A device of the character described, comprising an arbor, a sleeve mounted thereon, said sleeve being provided with an outwardly-extending shoulder, a reduced portion formed beyond said shoulder, a ratchet-wheel carried by the arbor and locked in the said reduced portion and resilient means for holding the said ratchet-wheel against the shoulder, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

THOMAS W. R. McCABE.

Witnesses:

CARABEL KINNEY,

SAMUEL A. WETMORE.