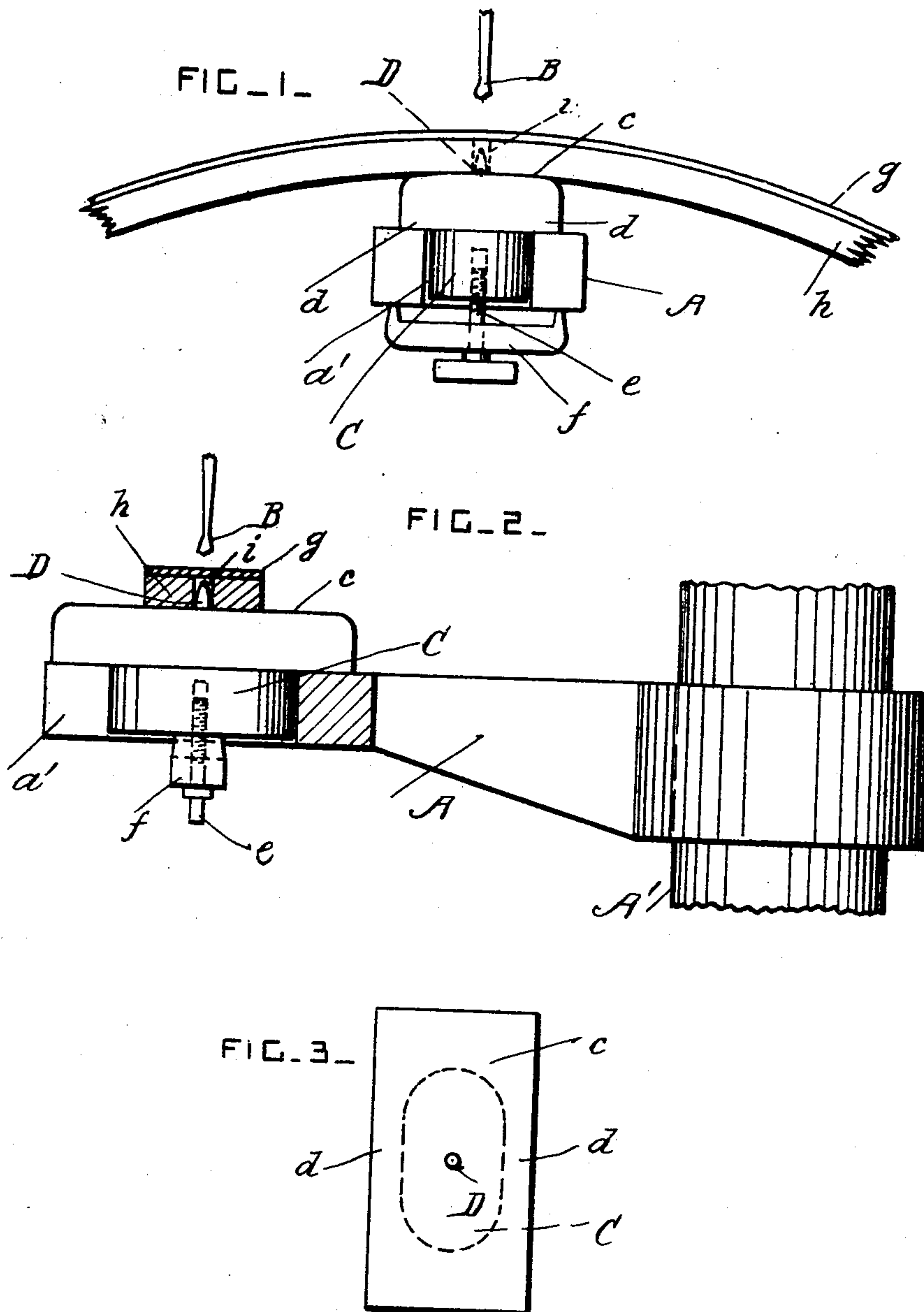


J. A. FERRIES.
GUIDE FOR DRILLING MACHINES.
APPLICATION FILED SEPT. 13, 1909.

979,273.

Patented Dec. 20, 1910.



Inventor

Witnesses

Geo C. Miller
W. E. Allen

By

James A. Ferries
Herbert W. Jenner.

Attorney

UNITED STATES PATENT OFFICE.

JAMES A. FERRIES, OF CHILI, NEW YORK.

GUIDE FOR DRILLING-MACHINES.

979,273.

Specification of Letters Patent.

Patented Dec. 20, 1910.

Application filed September 13, 1909. Serial No. 517,477.

To all whom it may concern:

Be it known that I, JAMES A. FERRIES, a citizen of the United States, residing at Chili, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Guides for Drilling-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to guides for drilling holes in wheel-tires; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a front view of the guide when in use. Fig. 2 is a side view of the guide showing the support partly in section. Fig. 3 is a detail plan view of the guide.

A is a support for the guide. This support is preferably a forked arm which projects from the frame of the drilling machine, the usual work-table being removed.

A' is a portion of the supporting pillar of a drilling machine to which one end portion of the support A is secured, and *a'* is the fork or open-ended slot at the free end portion of the support.

B is a portion of a drill arranged over the support and driven by the drilling machine in any approved manner.

C is a guide-block having a curved top *c*, and side portions *d* which project laterally beyond its main portion.

D is a pointed guide-pin which projects vertically from the middle part of the top of the guide-block. This pin is arranged under the point of the drill, and the guide-block is then clamped to the support A by means of a screw *e* and a crosspiece *f*.

The curvature of the top *c* is made to conform to the inside of a wheel rim. When a new tire *g* has been placed on the rim *h* of an old wheel, the rim is placed on the guide-block as shown in Fig. 1, so that the guide-pin engages with one of the old bolt-holes *i*. This centers the rim under the point of the drill, and the bolt-hole is then drilled through the rim accurately and without loss of time in marking off the work.

What I claim is:

The combination, with an arm having means for connecting it with the pillar of a drilling machine, said arm being also provided with a slot, of an oblong block which is slidable in the said slot, said block having a projecting portion which rests on the said arm and is adapted to support a wheel-rim, and a centering device which projects from the middle part of the said projecting portion and which is adapted to engage with a hole in the wheel rim.

In testimony whereof I have affixed my signature in the presence of two witnesses.

JAMES A. FERRIES.

Witnesses:

C. A. NICHOLS, Jr.,
FANNIE M. NICHOLS.