(No Model.)

J. F. STRANGE.

DRILL CHUCK.

No. 362,043. Patented Apr. 26, 1887.

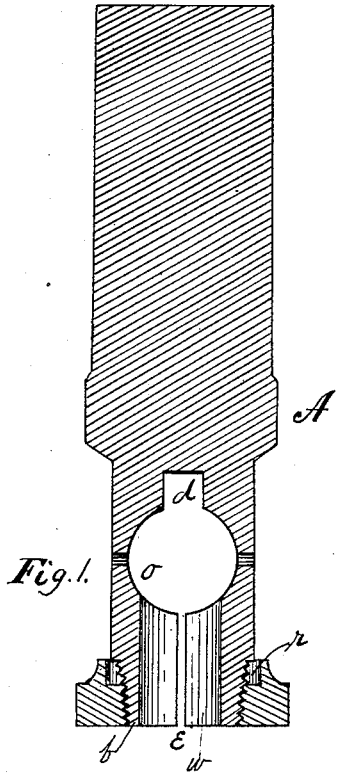

Fig. 1.

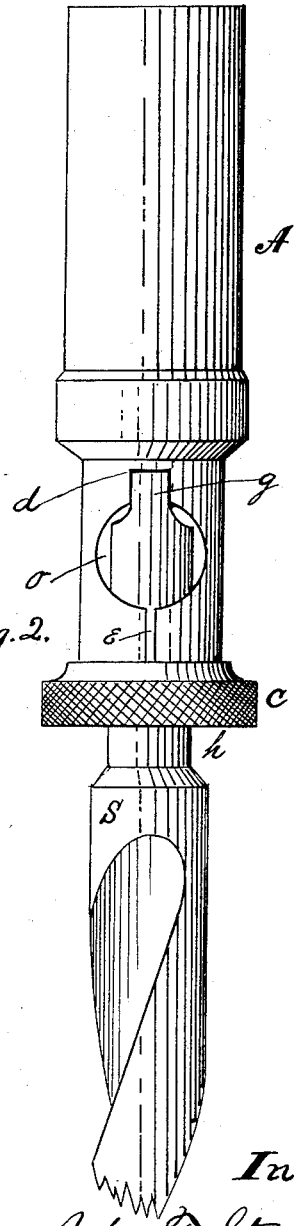

Fig. 2.

Witnesses

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UNITED STATES PATENT OFFICE.

JOHN F. STRANGE, OF NEW BEDFORD, MASSACHUSETTS.

DRILL-CHUCK.

SPECIFICATION forming part of Letters Patent No. 362,043, dated April 26, 1887.

Application filed January 22, 1887. Serial No. 225,057. (No model.)

To all whom it may concern:

Be it known that I, JOHN F. STRANGE, a citizen of the United States, residing at New Bedford, in the county of Bristol and State of Massachusetts, have invented a new and useful Improvement in Drill-Chucks, of which the following is a specification.

My invention relates to that class of chucks which are designed to hold drills exclusively, and only that class of drills which have straight shanks—*i. e.*, shanks having parallel sides—and provided with tangs or flattened portions on their rear ends.

The object of my invention is to furnish a simple, durable, and cheap chuck for holding drills, which will avoid the numerous objections to taper-shank drills and the method of holding them, and also avoid the many objections to the method of holding drills which have straight shanks by means of clamping-jaws. I attain these objects by the device illustrated in the accompanying drawings, in which—

Figure 1 is a view in longitudinal section of my chuck, showing fully the mode of its construction. Fig. 2 is an elevation of the chuck holding a drill.

In Fig. 1, A represents the body of the chuck, through which is drilled laterally the hole *o*. The mortise *d* is then formed in the body of the chuck, connecting with or opening into the hole *o*. The hole *w* is then drilled, connecting with the hole *o*. The end *b* of the chuck is then tapered and screw-threaded and provided with the taper nut *c*. It is then divided into sections by the slits *e*. The shank may be fitted to a lathe-mandrel or to an upright drilling-machine. The drill is driven wholly by the tang or flattened end fitting into the mortise *d*. The divided end *b* of the chuck, when contracted by the taper nut *c* so as to embrace the shank of a drill, only serves to center it and does not in the least help to drive the drill.

A large number of different sizes of drills may be held in this chuck by having their shanks sized down to fit the hole *w*, as is shown in Fig. 2.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

A drill-chuck consisting of elastic jaws formed integrally with the body of the chuck, adapted to be drawn toward each other by means of a taper nut, and having an opening through its body laterally, and provided with a mortise connecting with said opening formed in the body of the chuck, as shown, for the purpose described.

JOHN F. STRANGE.

Witnesses:
HENRY W. MASON,
J. C. KNOWLES.