

N. STAUB.
 ROCK DRILL.
 APPLICATION FILED MAY 5, 1911.

1,056,132.

Patented Mar. 18, 1913.

Fig. 1.

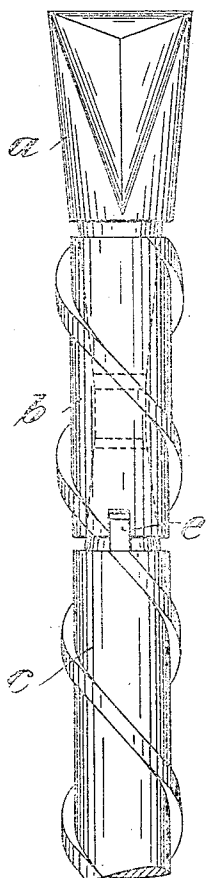


Fig. 2.

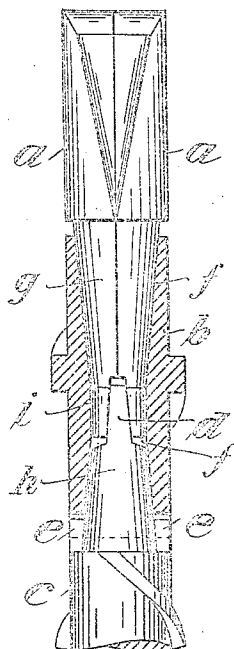
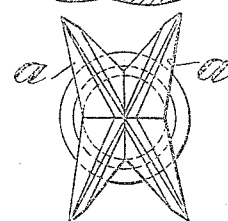


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

NIKOLAUS STAUB, OF SCHIFFWEILER, GERMANY.

ROCK-DRILL.

1,056,132.

Specification of Letters Patent.

Patented Mar. 18, 1913.

Application filed May 5, 1911. Serial No. 625,307.

To all whom it may concern:

Be it known that I, NIKOLAUS STAUB, a subject of the German Emperor, and resident of Schiffweiler, Kreis Ottweiler, Germany, have invented a certain new and useful Improved Rock-Drill, of which the following is a specification.

This invention relates to a rock-drill, adapted for use as brace and jumper, the detachable chisels of which having cross-like cutting edges which enable an easier advancing of the drill without overheating it in the rock or coal, cutting a round hole therein, in which the chisels do not stick or clamp.

A new attachment of the chisels to the rock-drill adapts the rock-drill for drilling and jumping.

In the accompanying drawing Figure 1 shows a side view, Fig. 2 another side view partly in section and Fig. 3 a top view of the new rock-drill.

The drill has two chisels *a*, fitting into a sleeve *b*, connecting the chisels with the rod *c*. Two tapering borings *f* at the ends of the sleeve take up the tapering part of the shanks *g* of the chisels and the tapering end *h* of the drill-rod *c*. Between the two tapering borings *f* the sleeve has a cylindrical boring *z*. In the shanks *g* there are provided recesses forming a tapering hole for taking up the tapering end *d* of the drill-rod *c*. At opposite sides of the tapering end *h* of the drill-rod *c* there are projections *e* fitting into corresponding recesses of the sleeve *b*, so that the latter is safely coupled with the drill-rod *c*.

The cutting edges of the chisels have the form of a cross or the letter X. In consequence of this the drill can work easier and more freely, because the friction at its sides is diminished and a round hole is cut in the rock in which the chisels do not stick or clamp.

What I do claim and desire to be secured by Letters Patent is:

1. In a tool of the character described, in combination, a sleeve provided with tapering openings extending inwardly from its ends, tool members having shanks extending within one of said tapering openings, and a rod extending within said other tapering opening, said members and said rod being provided with co-acting recessed and projecting portions, whereby they are interlocked with one another.

2. In a tool of the character described, in combination, a sleeve provided with tapering openings extending inwardly from its ends, tool members having shanks extending within one of said tapering openings, and a rod extending within said other tapering opening, said members being provided with a tapered recess, and said rod being provided with a tapered projection engaging said recess, whereby the members and the rod will interlock with one another.

3. In a tool of the character described, in combination, a sleeve provided with tapering openings extending inwardly from its ends, tool members having shanks extending within one of said tapering openings, and a rod extending within said other tapering opening, said members and said rod being interlocked with one another, said sleeve being provided at one end with a recess, and said rod being provided with a projection engaging said recess, whereby said rod is coupled to said sleeve.

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

NIKOLAUS STAUB.

Witnesses:

MARG. KNEPPERS,
OSCAR DEPNER.