

J. C. Dickey,

Rock Drill.

N^o 55,070.

Patented May 29, 1866.

Fig. 1.

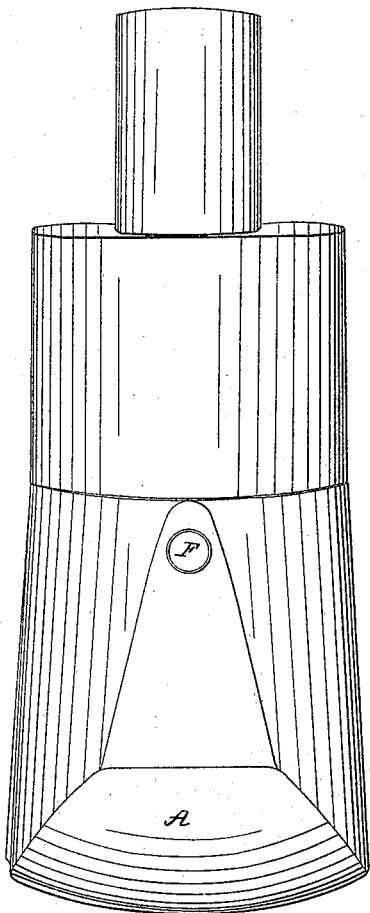


Fig. 2.

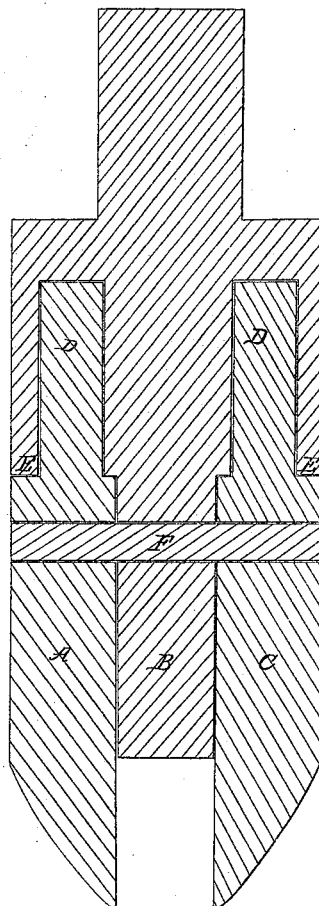


Fig. 3.

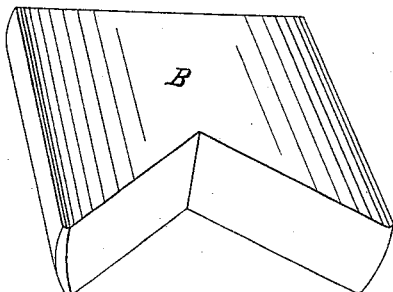
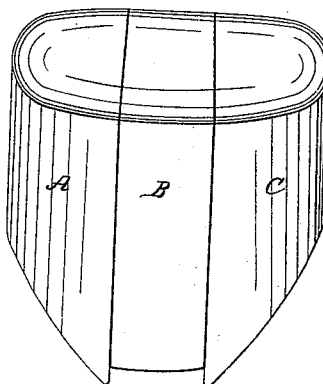


Fig. 4.



Witnesses.
John D. Dickey,
W. M. Dickey

Inventor
Julius C. Dickey

UNITED STATES PATENT OFFICE.

JULIUS C. DICKEY, OF NEW YORK, N. Y.

IMPROVED ROCK-DRILL.

Specification forming part of Letters Patent No. 55,070, dated May 29, 1866.

To all whom it may concern:

Be it known that I, JULIUS C. DICKEY, of New York, in the county of New York and State of New York, have invented a new and Improved Mode of Constructing Rock-Drills for Boring Oil-Wells; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1 is a perspective view, Fig 2 a longitudinal section, Fig. 3 a cross-section, and Fig. 4 a perspective view, of the drill-bit B.

I make the central drill-bit, B, with shoulders, E E, against which the bits A and C rest, said bits A and C being made with a tenon, D, which is inserted in a hole made in shoulders E E, the several bits being secured together by bolt F, the drill being rotated in the well. When the bits A and C are made one foot or more in length the bolt should be made with

a head on one end and with a nut on the other end. The central part of the lower end of bit B I make with a cutting-edge, or otherwise.

The bits combined will cut the rock so as to form a core in the center of the well, which core will make the drill work more perpendicular and drill a more perpendicular well.

The number of bits are increased in proportion to the size of the well to be bored.

By this combination of the bits I am enabled to make a cheaper and more durable drill than could be otherwise made.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the drill-bits A, B, and C, substantially as set forth.

JULIUS C. DICKEY.

Witnesses:

E. M. OSBORNE,
M. M. LIVINGSTON.