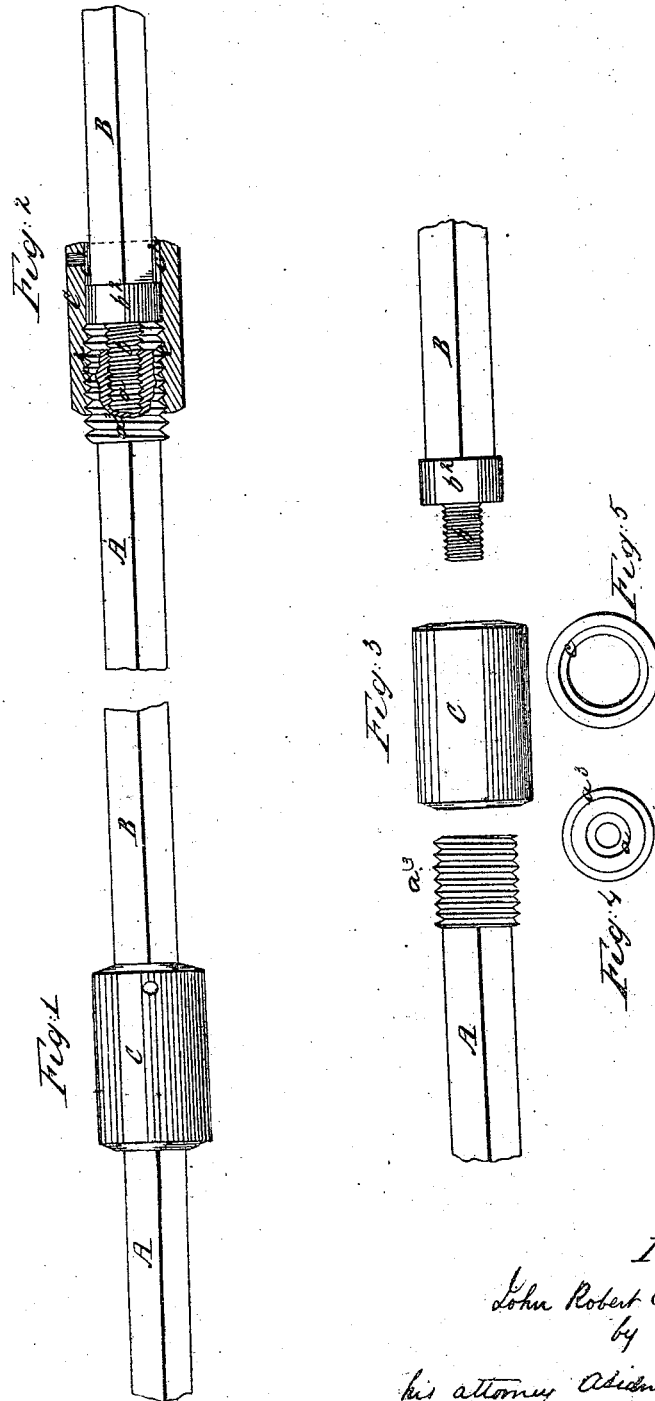


J. R. MOORE.
COUPLING TOOL FOR DRILLING.

No. 47,031.

Patented Mar. 28, 1865.



Witnesses
L. O. Gordon
F. C. Dowd

Inventor
John Robert Moore
by
his attorney Sidney Bond

UNITED STATES PATENT OFFICE.

JOHN ROBERT MOORE, OF BROOKLYN, NEW YORK.

COUPLING TOOLS FOR DRILLING.

Specification forming part of Letters Patent No. 47,031, dated March 28, 1865.

To all whom it may concern:

Be it known that I, JOHN ROBERT MOORE, of Brooklyn, Kings county, New York, have invented, made, and applied to use a new and Improved Mode of Coupling Tools for Drilling and other Purposes; and I do declare the following to be a full, clear, and correct description of the same, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, in which—

Figure 1 is a view of two sections of a drilling-tool coupled by my improved mode; Fig. 2, a longitudinal section of the same; Fig. 3, detached views of sections of tool and cap or collar; Fig. 4, an end view of section of tool; Fig. 5, end view of cap or collar.

In the drawings like parts of the invention are indicated by the same letters of reference.

The nature of my invention consists in a new and useful mode of coupling tools for drilling and other purposes, as hereinafter fully described.

To enable those skilled in the arts to make and use my invention, I will describe the same.

A shows a section of a shaft, auger-stem, bit, or any tool, which section A is provided with the shoulder a^1 , having cut upon its interior the female thread a and upon its exterior the male thread a^2 .

B is a second section of a shaft, auger stem, bit, or any tool, provided at its bottom end with the male thread b , screwing into the female thread a upon the interior of the shoulder upon the section A. This section B is also provided with the shoulder b^1 .

C shows a cap or collar having upon its interior the female thread c and the shoulder c^1 .

The various parts being thus constructed, the second section B is connected to the first section A by screwing the male thread b on the section B, into the female thread a , upon the section A, until the shoulder b^1 is brought flush against

the shoulder a^1 . The cap or collar C is then placed over the section B, and the female thread c is screwed into the male thread a^2 upon the shoulder a^2 until the shoulder c^1 upon the interior of the cap or collar C bears snugly upon the shoulder b^1 upon the section B.

My invention will be found particularly valuable in coupling tools used in boring artesian and oil wells. The tools at present used in boring artesian and oil wells are connected or held together by simply screwing one into the other.

The difficulty experienced (a most serious one) when tools are thus coupled has been that in process of drilling or boring the tools frequently become unscrewed and are lost, and if not lost very much time, labor, and expense are expended in recovering them.

By the use of my invention this difficulty is entirely obviated, as the presence of the cap or collar prevents the tools becoming unscrewed while in use, while its cost is but little in excess of the present mode.

It will be perceived that the lower section, B, is provided with a right-handed thread, while the cap or collar is provided with a left-handed thread, so that any liability of the section to unscrew only tightens the cap or collar. While in some cases both the threads upon the section A, or, more definitely, upon the shoulder a^2 and the section B, may be right-handed threads, in which case one thread may be made finer than the other, I prefer the method herein shown.

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

The improved mode of coupling, substantially as described.

JOHN ROBERT MOORE.

In presence of—

A. SIDNEY DOANE,
FRED. C. DOWD.