

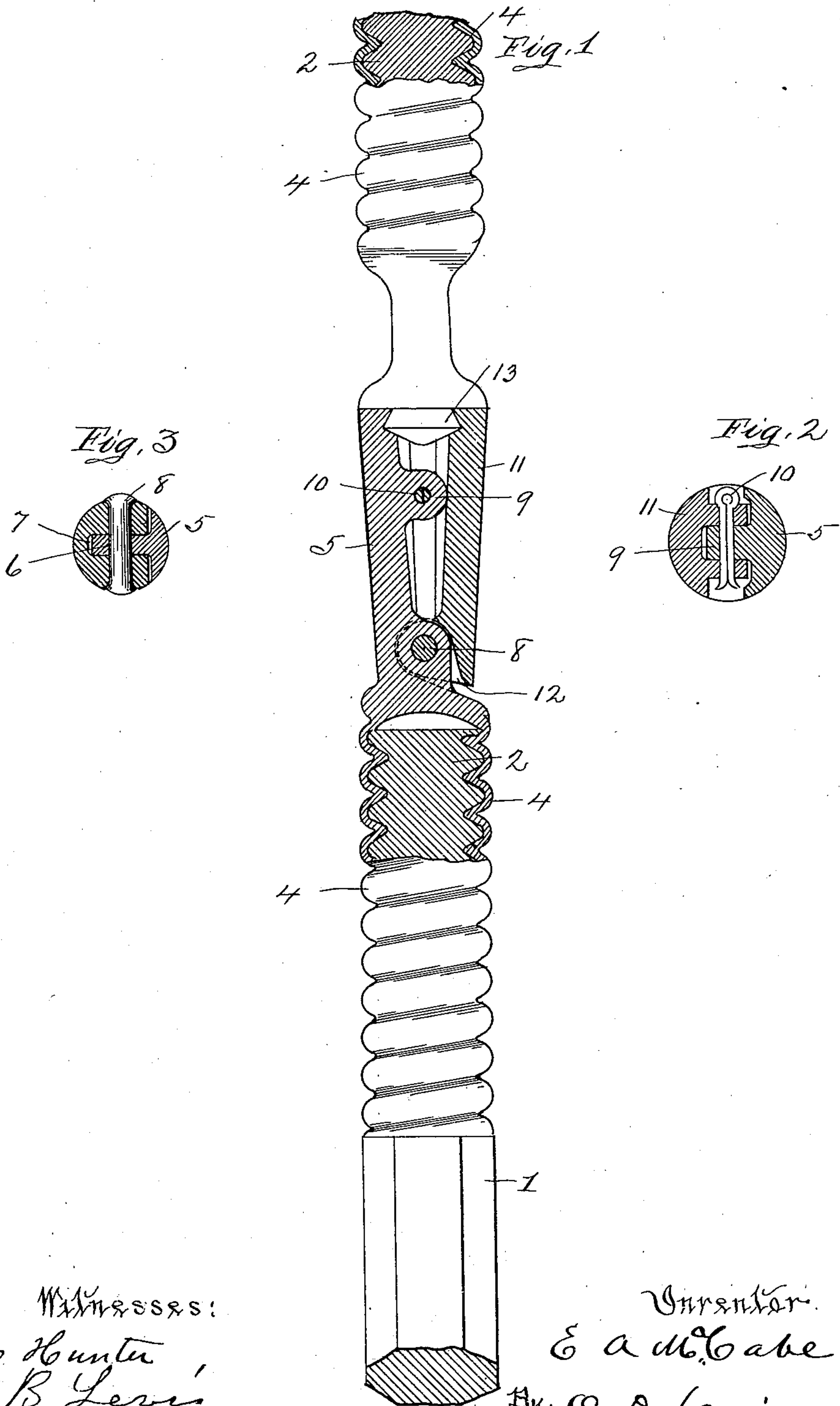
No. 672,956

Patented Apr. 30, 1901.

E. A. McCABE.
SUCKER ROD CONNECTION.

(Application filed Aug. 28, 1900.)

(No Model.)



Witnesses:
M. Hunter,
S. B. Lewis

Inventor:
E. A. McCabe

By O. A. Lewis
Att'y.

UNITED STATES PATENT OFFICE.

EDWARD A. McCABE, OF PITTSBURG, PENNSYLVANIA.

SUCKER-ROD CONNECTION.

SPECIFICATION forming part of Letters Patent No. 672,956, dated April 30, 1901.

Application filed August 28, 1900. Serial No. 28,333. (No model.)

To all whom it may concern:

Be it known that I, EDWARD A. McCABE, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Sucker-Rod Connections; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to an improved sucker-rod connection for oil-well purposes; and it consists in certain details of construction and combination of parts, as will be fully described hereinafter.

In the accompanying drawings, Figure 1 is a side central view, partly in section, of my improved sucker-rod connection, the same being constructed and arranged in accordance with my invention. Fig. 2 is a sectional plan view of the same, the section being taken on the line X X of Fig. 1. Fig. 3 is a similar view taken on the line Y Y.

To put my invention into practice, and thereby provide a coupling or connection for sucker-rods such as are in common use for pumping oil-wells, the said rods consist each of a long strip or rod 1, octagonal in cross-section and the rods are joined together by a coupling. Formed at each end of each of these rods 1 is a screw-thread 2, adapted to enter and be confined in threaded sockets 4. The lower socket 4 is provided with an integral extension 5, semicircular in cross-section (see Figs. 2 and 3) and having inward-projecting lugs 7 and 9, the one above the other, the lower one 6 forming a portion of a hinge connection and the other, 9, a part of a locking device. Hinged to the lower lug 6 by means of a stout steel rivet 8 is a portion 11, formed with a recess 7 for the reception of the said lug 6, and the said part 11 capable of a limited outward movement. This part 11 is provided at the top with a recess having inwardly-sloping sides, which, in connection with a similar recess formed in the extension 5, makes a circular or concentric wedge or V-shaped matrix for the reception of a correspondingly-

shaped shoulder or projection 13, formed integral with the upper socket 4. To provide a means for locking the two portions 5 and 11 together, the lug 9 is entered between lugs formed with the hinged part 11 and each of the said lugs provided with openings registering the one with the other and in which a small cotter-pin 10 is placed.

In operation the rods 1 are screwed tightly into their respective sockets 4, and when it is desired to couple the one section to the other it is only necessary to remove the cotter-pin 10, thereby permitting the hinge portion 11 to open to permit the insertion of the pin 13, and when this has been accomplished the said hinge portion is sprung back and the cotter-pin inserted, thereby completing the coupling.

Various slight modifications and changes may be made in the details of construction without departing from the spirit of the invention.

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

A sucker-rod connection, consisting of the threaded sockets 4, adapted to receive the threaded ends of the sections or rods 1; the lower socket having an extension 5, formed integral therewith, and provided with lugs 7, and 9 for engagement with corresponding recesses in the hinged connection 11, the upper portion of said extension 5, and its hinged connection 11, being provided with a concentric wedge or V-shaped matrix for the reception of a correspondingly-shaped shoulder or projection 13, on the lower part of the upper socket and formed integral therewith, and the cotter-pin 10, for locking said extension 5, and its hinged connection together, substantially as and for the purpose specified.

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

EDWARD A. McCABE.

Witnesses:

JAS. J. McAFEE,
C. J. KLAUS.