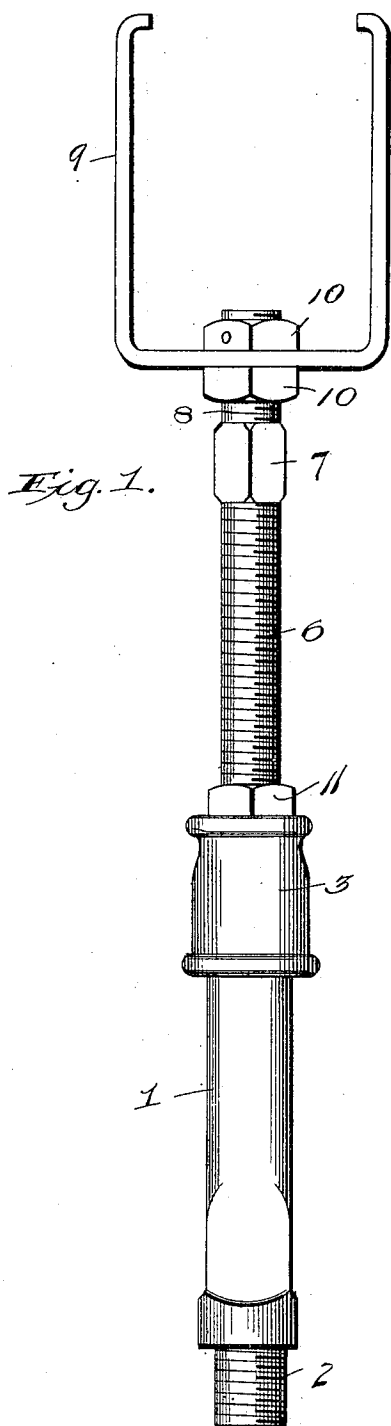


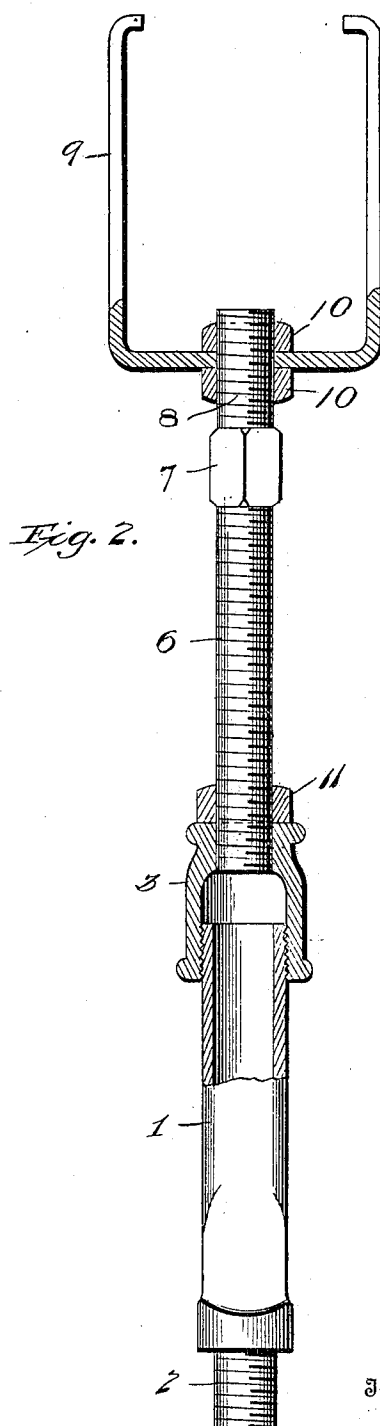
No. 830,136.

PATENTED SEPT. 4, 1906.

W. DICKSON.
PUMP ROD CONNECTION.
APPLICATION FILED APR. 2, 1906.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM DICKSON, OF DEMING, TERRITORY OF NEW MEXICO.

PUMP-ROD CONNECTION.

No. 830,136.

Specification of Letters Patent.

Patented Sept. 4, 1906.

Application filed April 2, 1906. Serial No. 309,498.

To all whom it may concern:

Be it known that I, WILLIAM DICKSON, a citizen of the United States, residing at Deming, in the county of Luna and Territory of New Mexico, have invented new and useful Improvements in Pump-Rod Connections, of which the following is a specification.

This invention relates to a pump-rod connection particularly adapted for coöperation with pump-jacks, pitman-rods, and other pump-rod organizations; and the essential feature of the same is an extension-screw engaging the attaching-yoke and capable of ready adjustment with respect to the remaining part of the organization and operating to lessen the expense, friction, and labor incident to pump connections now in use and also to avoid pounding the top and bottom of the cylinder and of such simple construction as to be readily controlled as to its adjustment and permit a detachment and re-assembly of the parts with which it coöperates by means of wrenches or analogous implements.

The invention also consists in the details of construction and arrangement of the several parts, which will be more fully hereinafter described and claimed.

In the drawings, Figure 1 is an elevation of a pump-rod connection embodying the features of the invention. Fig. 2 is a similar view, broken away at parts to show the interior construction.

Similar numerals of reference are employed to indicate corresponding parts throughout the views.

The numeral 1 designates a connecting-stem, which is shown as of tubular form and having a lower screw-threaded terminal 2 to provide a pump-rod coupling, which may be varied as to the character of the screw-threads and other auxiliary devices ordinarily employed in couplings of this character. The upper end of the stem is exteriorly screw-threaded and fitted in the lower extremity of a reducer 3, having an upper screw-threaded head to receive the lower end of an extension-screw 6, provided with wrench-engaging faces 7 near its upper extremity. With the exception of the wrench-engaging faces 7 the stem 6 is screw-threaded throughout its entire length, and the upper extremity 8 thereof is inserted through the bow of a coupling-yoke 9, jam or lock nuts 10 engaging the said upper extremity 8 and adapted to bear against the bow of the yoke to prevent accidental

disengagement or disconnection of the stem 6 with respect to said yoke. This attachment of the upper extremity 8 of the extension-screw 6, as set forth, may in some instances form a swivel. Engaging the extension-screw 6 is a jam or lock nut 11, which is drawn down on the head of the reducer 3 to prevent accidental disengagement of the said screw from the reducer. As many openings may be formed in the arms of the yoke 9 as desired to accommodate the application of the same and the improved pump-connection organization to different devices or to render the improved organization applicable to different constructions of windmills or windmill rods and operating elements. It is proposed to use the improved connecting organization wherever it may be found applicable; but in all applications thereof the extension-screw will be utilized, this screw, together with the reducer 3 and the tubular stem 1, forming the essential features of the invention.

In operating the improved organization set forth a wrench is applied to the faces 7, and the screw extension 6 is turned in the direction desired to lengthen or shorten the distance between the yoke 9 and the reducer 3, it being understood that the nuts 10 and 11 will be first loosened to permit such operation, or under some operations it will only be necessary to loosen either the nut 10 or the nut 11. By operating the screw 6 through the medium of a wrench applied to the faces 7 the yoke 9 may also be detached after first releasing the jam or lock nuts 10 and 11, and in all the adjustments and detachments and assembly of the several parts the only implements necessary will be at least two wrenches. It will be seen that the extension-screw 6 may be adjusted into the reducer 3, particularly in the event that a material shortening or reduction in length of the connecting organization is desired with respect to the yoke 9 and said stem 1.

From the foregoing it will be seen that the parts of the improved device are very simple, as well as strong and durable, and will be found very advantageous in disconnecting or adjusting pump-rods or other analogous devices and overcoming loose play of any of the parts due to slackness throughout the length of the pump-rod or said slackness being readily taken up when found necessary, or if an extension is desired the same may be also readily obtained. It will also be understood that changes in the proportions, dimensions,

and minor details may be resorted to without departing from the spirit of the invention.

What I claim is—

1. In a device of the class set forth, the
5 combination with a stem, and a connecting-yoke, of an extension-screw having screw-threads extending almost completely there-
over, and a wrench-engaging surface near one
extremity, a reducer held on one extremity
10 of the screw and connected to the stem, the opposite extremity of the screw projecting
through the center of the yoke and adjust-
able with relation to both the latter and the
reducer, and jam-nuts on the screw adjacent
15 to the reducer and also at the point where the screw engages the yoke.

2. In a device of the class set forth, the combination with a stem having a reduced screw-threaded extremity and also provided

with screw-threads on the exterior of its op- 20
posite extremity, a reducer applied to the ex-
terior-screw-threaded extremity of the stem,
an extension-screw adjustably engaging the
reducer and having an intermediate wrench-
surface, a yoke through which the opposite 25
screw-threaded extremity of the extension-
screw projects, nuts bearing against opposite
sides of the part of the yoke engaged by the
screw and carried by the latter, and a nut
also carried by the screw and engaging the 30
reducer.

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

WILLIAM DICKSON.

Witnesses:

PASCHAL R. SMITH,
DAVID W. JORDAN.