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PATENTED SEPT. 17, 1907.

J. H. DENNIS.
GUIDE FOR PUMP SUCKER RODS.
APPLICATION FILED JUNE 7, 1907.

Fig. 1.

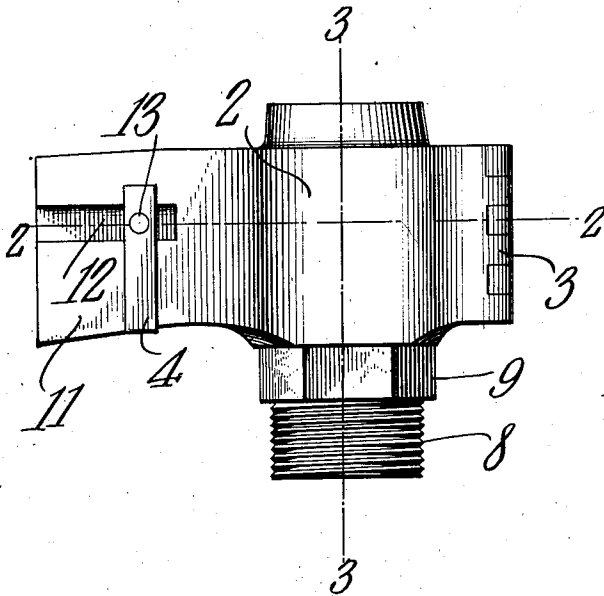


Fig. 2.

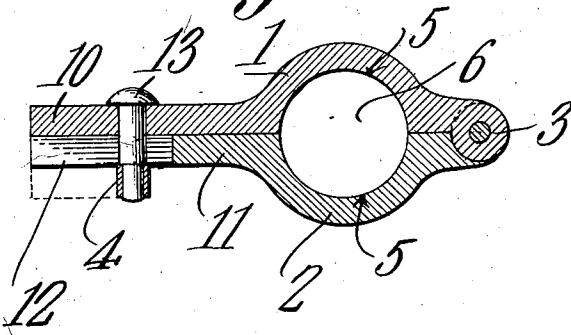
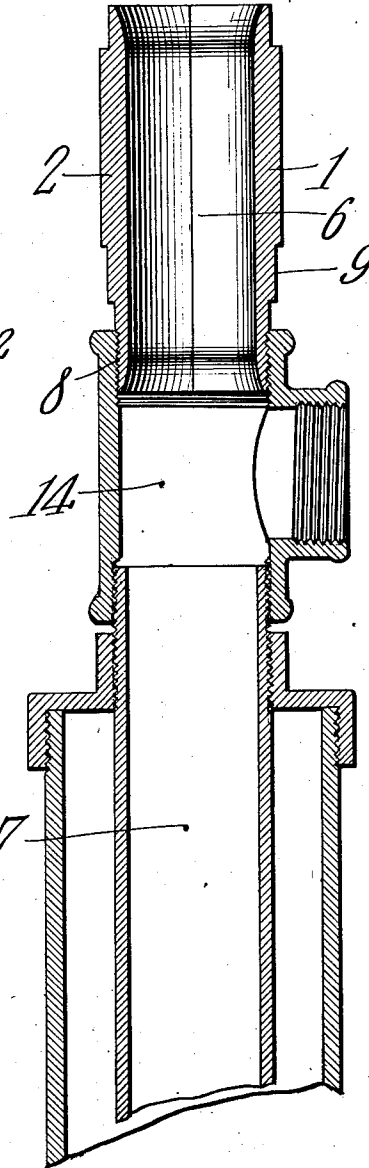


Fig. 3.



WITNESSES:

E. H. Stewart
A. P. Hallingworth

John H. Dennis,
INVENTOR.

By *C. A. Snow & Co.*
ATTORNEYS

UNITED STATES PATENT OFFICE.

JOHN H. DENNIS, OF COWRUN, OHIO.

GUIDE FOR PUMP SUCKER-RODS.

No. 866,005.

Specification of Letters Patent.

Patented Sept. 17, 1907.

Application filed June 7, 1907. Serial No. 377,791.

To all whom it may concern:

Be it known that I, JOHN H. DENNIS, a citizen of the United States, residing at Cowrun, in the county of Washington and State of Ohio, have invented a new and useful Guide for Pump Sucker-Rods, of which the following is a specification.

This invention relates to an attachment for oil and other wells of like character, the object being to provide a guide for the pump sucker rod when withdrawing or inserting the same in a well or pump tube.

In many oil wells the pump tube passes through the well casing cap and has screwed thereon a T-coupling to which is attached a stuffing box for the sucker rod in line with the pump tube, and a pipe to carry away the oil raised by the pump. When it becomes necessary to remove or insert a sucker rod in wells of this type, the stuffing box is removed and the sucker rod drawn upwardly through the threaded opening in the T-coupling from which the stuffing box was taken. The sucker rod is made in lengths and joined by couplings which, as a rule, are of greater diameter than the rods. Now, when such rods are removed or inserted, the rod couplings very often strike the threaded openings and break or otherwise destroy the thread to such an extent that when the stuffing box is replaced and an attempt is made to screw it in the coupling, the broken threads thereon often destroy the threads on the stuffing box so that both the T-coupling and the stuffing box have to be thrown away, causing an unnecessary expense and a loss that may take a long time to repair.

To overcome this and other defects, and to enable the insertion and withdrawal of the sucker rod without damage to the thread or other parts of the tube and T-coupling, the invention hereinafter described has been designed.

In the accompanying drawings:—Figure 1 is a view in side elevation of the invention. Fig. 2 is a horizontal sectional view of the same taken on the line 2—2 of Fig. 1. Fig. 3 is a vertical cross sectional view of the invention on the line 3—3 of Fig. 1 showing it applied to an oil well.

Similar reference numerals are used in all the figures to denote the same parts.

The sucker rod guide comprises two like cast sections 1 and 2 of substantially semi-cylindrical form joined at one side by a hinge 3 and separately connected by a latch 4 on the side opposite the hinge, the contacting faces of the sections being plane surfaces as shown. Longitudinally disposed in each section 1 and 2 is a

straight groove 5, semi-circular in cross section and widened at each end which, when the sections are folded together, as in Figs. 2 and 3, form a cylindrical opening 6 of the same diameter as the pump tube 7 and bell mouthed at each end. The lower end of each section is threaded on its semi-cylindrical outer surface while above the threads are a plurality of vertical plane surfaces. These parts, when the sections are closed, form a threaded tubular boss 8 above which is a hexagonal collar 9 for the application of a wrench.

Projecting laterally from the sections on the side opposite the hinge are two arms 10 and 11. The arm 11 has a horizontal slot 12 for the passage of the latch 4 pivoted to a stud 13 projecting from the arm 9 into the slot 12.

To apply the guide, the stuffing box is first removed from the T-coupling 14 and raised on the pump rod. The latch 4 of the guide is then turned and when it is in line with the slot 12 the sections 1 and 2 are opened, the guide placed around the rod and the sections closed again and fastened. The boss 8 is then screwed into the T-coupling 14 as shown in Fig. 3, with the opening 6 in line with the pump pipe and serving as a guide for the sucker rod and a protection for the T-coupling.

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

1. A guide for pump sucker rods comprising two like sections hinged together, said guide having a threaded cylindrical boss on its lower end through which and through the guide a cylindrical opening extends, one-half of said threaded boss being on each section.

2. A guide for pump sucker rods comprising two like sections hinged together and fastened by a latch, a semi-cylindrical threaded boss on each section which when the sections are closed, may be screwed into a pump pipe, a cylindrical opening extending through said boss and said guide formed by a groove in each section through which the sucker rod passes.

3. A guide for pump sucker rods comprising two like sections each section having a hinge member on one side and an arm on the other, a semi-cylindrical groove formed in each section and a latch on one section adapted to engage the other section and lock the two sections in close contact when closed.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN H. DENNIS.

Witnesses:

J. S. H. TORNER,
W. M. SMITH.