

No. 847,928.

PATENTED MAR. 19, 1907.

H. M. FLETCHER.  
PUMP ROD COUPLING.  
APPLICATION FILED OCT. 2, 1905.

Fig. I.

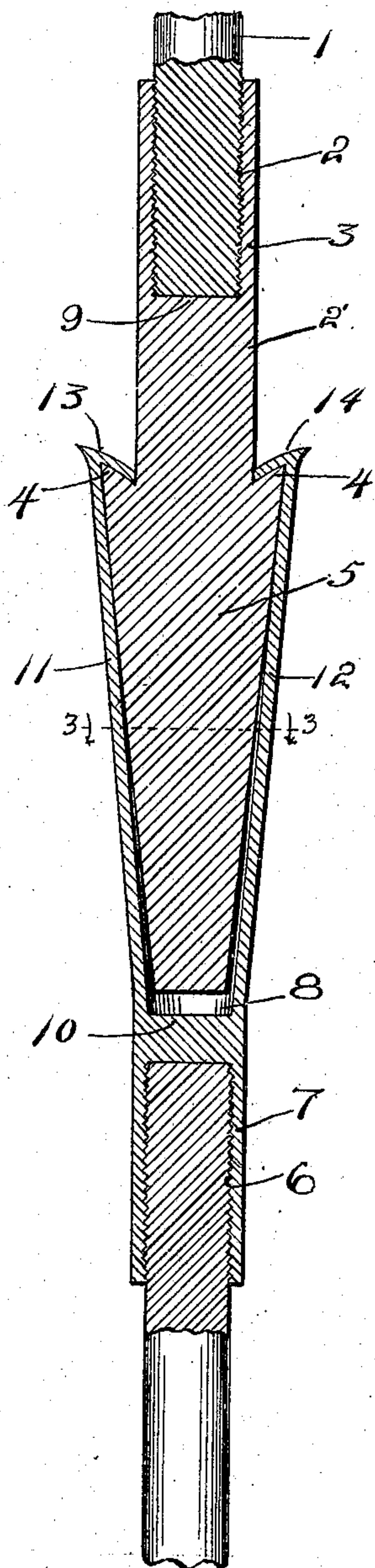
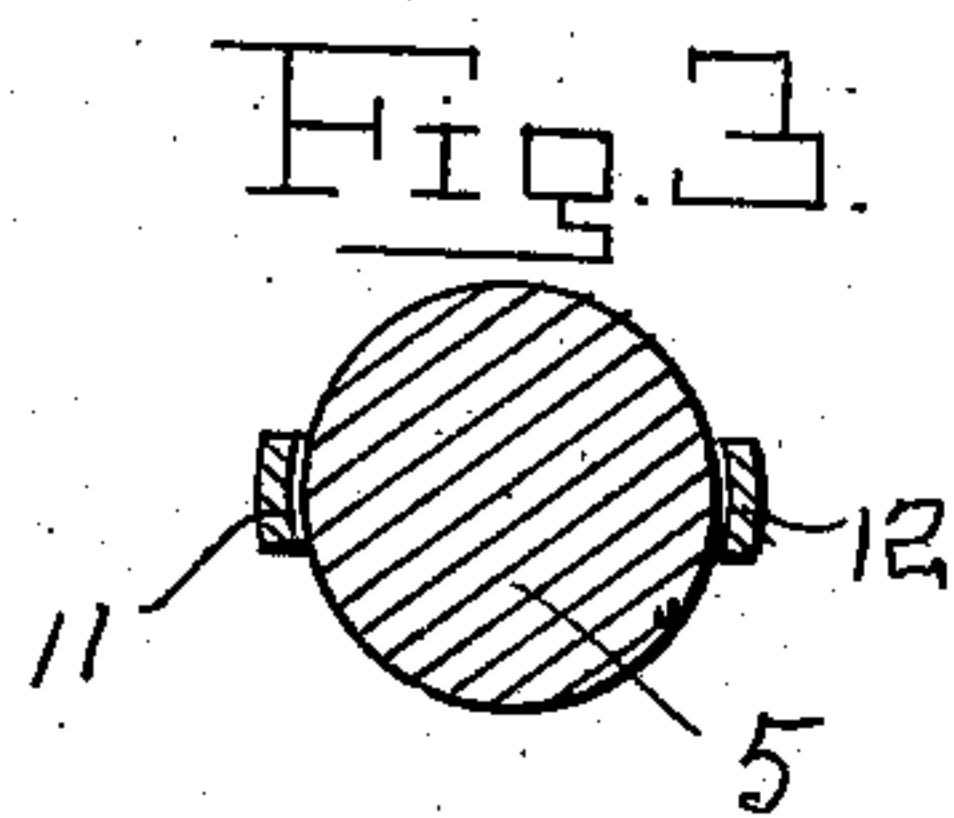
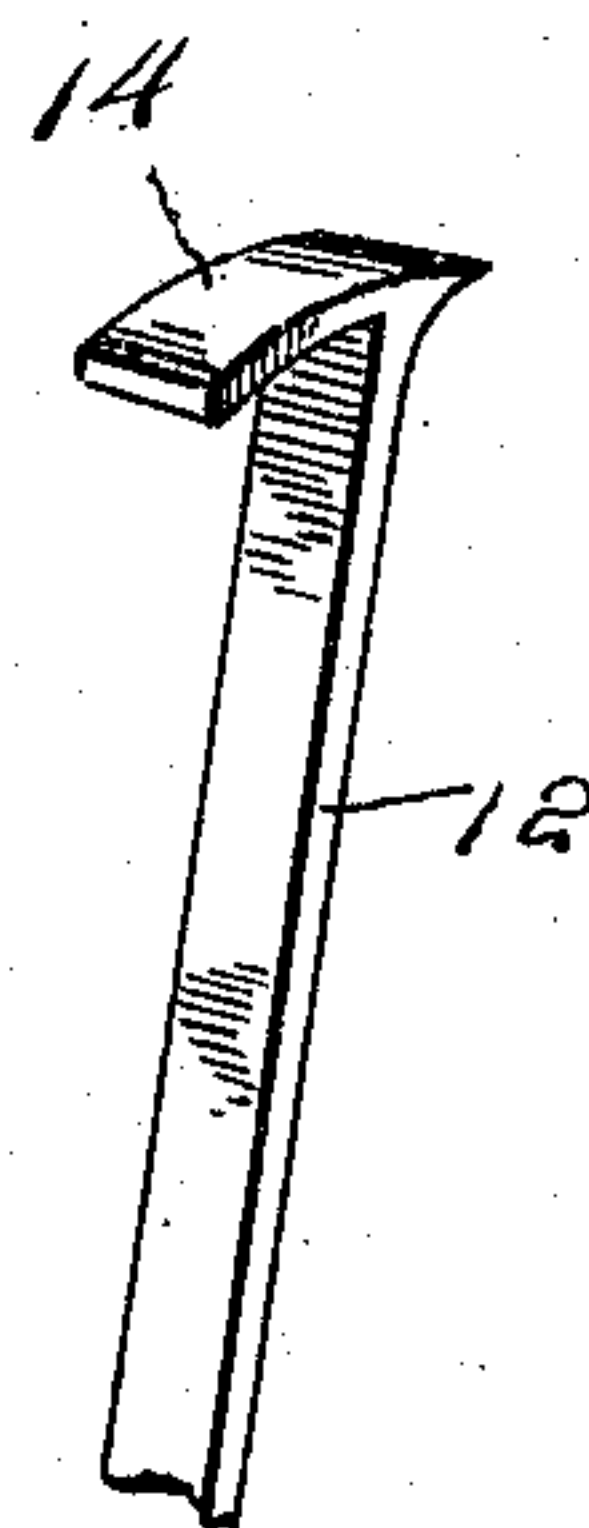


Fig. 2.



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# UNITED STATES PATENT OFFICE.

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## PUMP-ROD COUPLING.

No. 847,928.

Specification of Letters Patent.

Patented March 19, 1907.

Application filed October 2, 1905. Serial No. 280,997.

*To all whom it may concern:*

Be it known that I, HOMER M. FLETCHER, a citizen of the United States, residing at Sanco, in the county of Coke, State of Texas, have invented certain new and useful Improvements in Pump-Rod Couplings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to pump-rod couplings.

One object of the invention is to provide an exceedingly simple, inexpensive, durable, and efficient coupling for securing adjacent ends of the sections of a pump-rod together.

Another object of the invention resides in the provision of a coupling of such character that the adjacent ends of the piston or pump rod sections may be detachably secured together.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claim, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claim without departing from the spirit or sacrificing any of the advantages of the present invention.

In the drawings, Figure 1 is a sectional view of my invention, illustrating the coupling members connected together. Fig. 2 is a detail perspective view. Fig. 3 is a transverse horizontal section taken on the line 3-3 of Fig. 1.

Referring now more particularly to the accompanying drawings, the reference character 1 designates an upper section of a pump rod or piston, whose lower end is screw-threaded, as at 2, for engagement in the interiorly-screw-threaded hollow portion 3 of the upper coupling member 2', whose lower end is enlarged to provide the annular shoulder 4 and the downwardly-tapering portion 5.

The reference character 6 designates the upper end of the inner piston or rod, whose upper extremity is screw-threaded to engage the hollow portion 7 of the lower coupling member 8. The said hollow portions 3 and 7 are closed at their inner ends, as designated

by the reference characters 9 and 10, respectively.

The lower coupling member is provided at its inner end with oppositely-disposed spring-arms 11 and 12, formed integral therewith the free ends of said arms being inbent toward each other to form the hooks or clamp members 13 and 14, respectively, adapted to fit over and engage the shoulder 4 formed in the upper coupling member, when the two members are coupled together, the spring-arms fitting against the tapered portion 5 when the members are in such position, as shown in Fig. 1.

It will be observed that the shoulder 4 tapers from the periphery of the elongated tapering portion 5 of the upper coupling member inwardly and downwardly toward the portion 2' and that the clamp members 13 and 14 are directed downwardly toward each other, whereby they may have shape for engagement upon the face of the inwardly and downwardly tapering shoulder 4. It will be observed also that the outer edges of each plate 13 and 14 project slightly beyond the outer faces of the corresponding arms, whereby they may be readily engaged for the purpose of separating the coupling members from engagement with each other.

What is claimed is—

A device of the class described, comprising a coupling member having an internally-threaded socket formed in its outer end and enlarged intermediate its ends to form an annular shoulder, said enlargement tapering inwardly toward the opposite end of said coupling member; and a second coupling member having an internally-threaded socket formed in its outer end and provided at its inner end with oppositely-disposed spring-arms having their free ends inwardly directed, said arms being adapted to fit against the tapering portion of said first-mentioned coupling member with their inbent ends in engagement with the shoulder formed thereon, to hold said members coupled.

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

HOMER M. FLETCHER.

Witnesses:

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