No. 866,815.

PATENTED SEPT. 24, 1907.

F. P. SAYERS.

PUMP ROD ATTACHMENT.

APPLICATION FILED MAY 18, 1907.

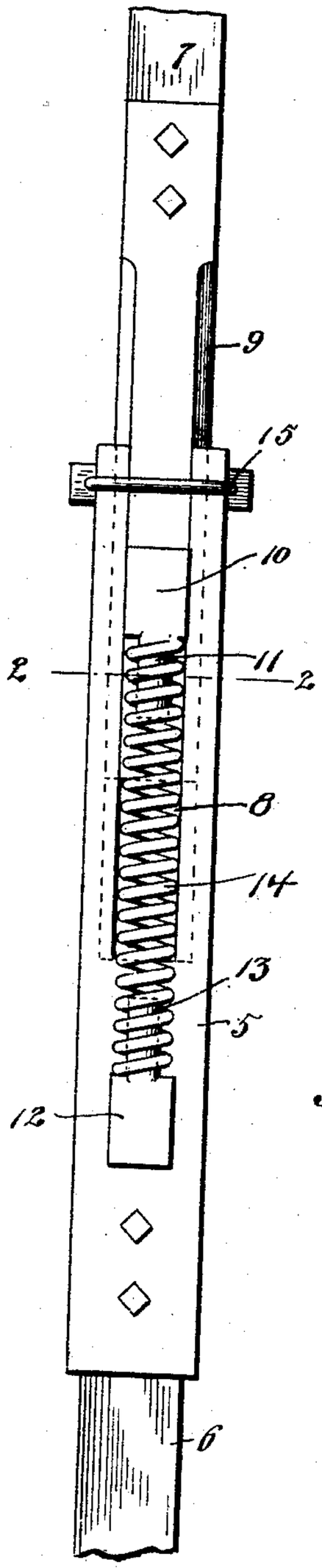

Fig. 1.

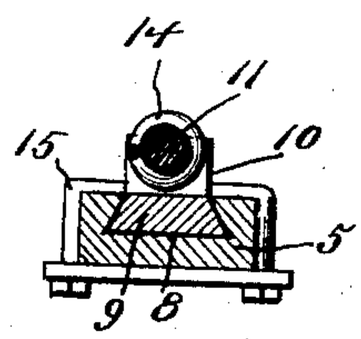

Fig. 2.

Witnesses

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PUMP-ROD ATTACHMENT.

No. 866,815. Specification of Letters Patent. Patented Sept. 24, 1907.

Application filed May 18, 1907. Serial No. 374,346.

To all whom it may concern:

Be it known that I, FARLEY P. SAYERS, a citizen of the United States, residing at Guthrie, in the county of King and State of Texas, have invented certain new and useful Improvements in Pump-Rod Attachments, of which the following is a specification.

This invention is a pump-rod attachment, and more particularly a longitudinally yielding connection therefor for taking up excessive jar and strain.

The object of the invention is to provide an attachment of this kind which is simple in construction and thoroughly reliable in operation.

In the accompanying drawing, Figure 1 is an elevation of the invention. Fig. 2 is a horizontal section on the line 2—2 of Fig. 1.

Referring specifically to the drawing, 5 denotes a bar which connects the pump-rod 6 to the wind-mill rod 7. The upper portion of the bar has a longitudinal groove 8 which is undercut as c early shown in Fig. 2. The wind-mill rod carries a slide 9 which works in the groove, the slide being shaped to fit the groove. The pump-rod is fastened to the lower end of the bar 5.

To the face of the slide near its lower end is secured a block 10 having a depending pin 11, and to the face of the bar 5 near its lower end and below the groove 8 is secured a block 12 having an upstanding pin 13. Between the blocks 10 and 12 is placed a strong spring 14 which is coiled at its ends around the pins 11 and 13, and made fast thereto. The pins are spaced from the slide and the bar sufficiently to allow the spring to work freely without interference. A clip 15 is fastened to the bar 5 near its upper end under which the slide 9 works and which assists to hold the slide in the groove. The clip also prevents the slide from being pulled entirely out of the groove in case of breakage of the spring as it will be engaged by the block 10 on the upward stroke of the wind-mill rod if the spring should break.

The attachment herein described is simple in construction, reliable in operation, and can be fitted to any ordinary wind-mill pump. The spring will be strong enough to hold the wind-mill and the pump-rod together and the pump will operate in the ordinary manner. The pump-rod is not liable to injury on the up stroke but is usually injured on the down stroke by striking an obstruction such as ice, sand, etc. With the present attachment if the pump-rod strikes such an obstruction it will yield, and the spring will be compressed, so that no damage will be done. Upon removal of the obstruction, the spring restores the parts to their normal position.

I claim:—

The combination with a wind-mill rod and a pump-rod, of a longitudinally grooved bar carried by the pump-rod, a slide carried by the wind-mill rod and working in the groove of the bar, blocks on the face of the slide and the bar, oppositely presented pins projecting from the blocks, and a spring between the blocks and coiled at its ends around the pins and fastened thereto.

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

FARLEY P. SAYERS.

Witnesses:
JAS. H. LYNN,
O. W. LASATER.