UNITED STATES PATENT OFFICE.

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PUMP-CYLINDER PROTECTOR.

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To all whom it may concern:

Be it known that Gus Wiese, a citizen of the United States of America, residing at New Hartford, in the county of Butler and State of Iowa, has invented new and useful Improvements in Pump-Cylinder Protectors, of which the following is a specification.

The continual working in the cylinder of a well pump often results in the loosening of the lower cap and the attached pipe, permitting the latter to drop into the well and incurring the expense and trouble of fishing it out. The purpose of the invention, therefore, is to provide a device for connection with the pump cylinder to positively prevent the unscrewing of the cap either at the upper or lower end of the same and at least prevent the dropping of any loosened parts should a cap for any reason become unscrewed.

With this purpose in view, the invention consists in a construction and combination of parts of which a preferred embodiment is illustrated in the accompanying drawings, wherein:

Figure 1 is a side elevational view showing a pump cylinder and portions of the connecting pipes at the upper and lower ends, the device being shown in operative position thereon.

Figure 2 is a longitudinal sectional view on the line 2—2 of Figure 1.

Figure 3 is a transverse sectional view on the line 3—3 of Figure 1.

The invention consists of complemenal yoke members 1 and 2 made preferably of thin metal cut or stamped to provide the side arms 3 and the heads 4, the latter being of greater width than the side arms and being provided with openings 5 for engagement with the wrench seats 6 of the caps 7 of a pump cylinder 8. The arms of one of the members are provided with slots 9 while the arms of the other member have holes through which the bolts 10 project, these bolts also extending through the slots 9 to permit adjustment of the members toward and away from each other, which arrangement provides for the adjustment of the device as to length to bring the heads 4 into engagement with the caps of different length cylinders within a specific range.

With the one member engaging the upper cap and the other member engaging the lower cap and both caps generally being connected by the same kind of threads, that is, right hand or left hand whichever is used, it is obvious that any tendency of the one cap to unscrew will result, by virtue of the device, in tending to cause the other cap to screw up. Thus either cap is held in position on the barrel. Should the device, however, be carelessly adjusted as to length so that the lower head may be disengaged from the lower cap and the latter for any reason become unscrewed, the device will serve as a means to catch the cap and the depending section of pipe and thus prevent its dropping into the well, thereby avoiding the necessity of having to fish it out.

The invention having been described, what is claimed as new and useful is:

1. A device for the purpose indicated comprising complemenal members provided with cylinder cap engaging heads and parallel arms, and means for connecting the arms together at their terminals.

2. A device for the purpose indicated comprising complemenal members provided with cylinder cap engaging heads and parallel arms, and adjustable means for connecting the arms together at their terminals to provide for variations in the length of the device as a whole to accommodate different lengths of pump cylinders.

3. A device for the purpose indicated comprising complemenal members provided with cylinder cap engaging heads and parallel arms, and adjustable means for connecting the arms together at their terminals to provide for variations in the length of the device as a whole to accommodate different lengths of pump cylinders, said means comprising slots in the arms of one of the members and bolts carried by the arms of the other member and projecting through the slots of the first said member.

In testimony whereof he affixes his signature.

GUS WIESE.