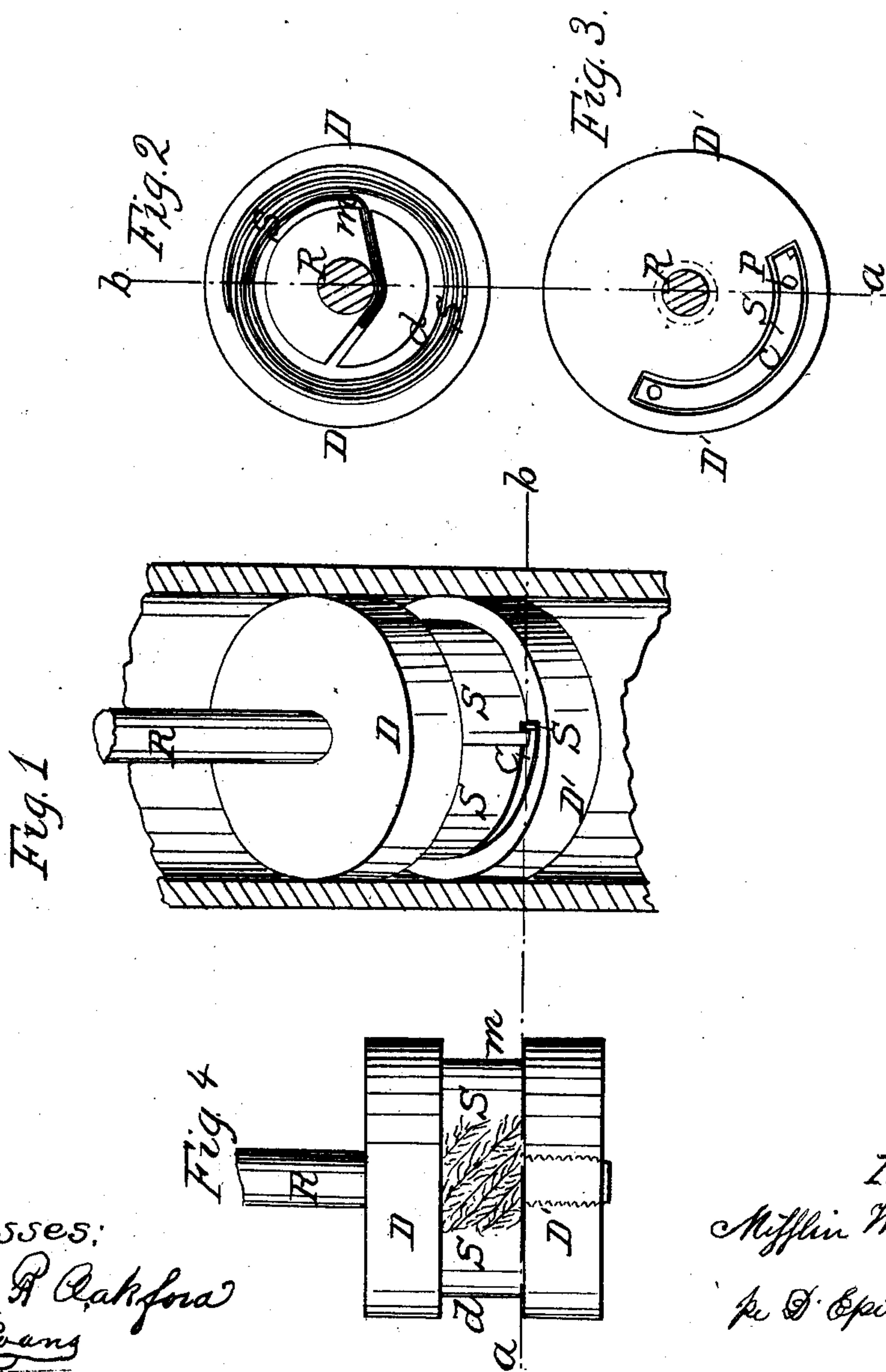


*M. W. Bailey.*

*Piston Packing.*

*N<sup>o</sup> 69,747.*

*Patented Oct. 15, 1867*



*Witnesses:*  
*Isaac A. Oakford*  
*W. H. Evans*

*Inventor:*  
*Miffin W. Bailey.*  
*Inventor*  
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*Attorneys.*

# United States Patent Office.

MIFFLIN W. BAILY, OF WESTCHESTER, PENNSYLVANIA.

*Letters Patent No. 69,747, dated October 15, 1867.*

## IMPROVEMENT IN PISTON-PACKING.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, MIFFLIN W. BAILY, of the town of Westchester, in the county of Chester, in the State of Pennsylvania, have invented a new mode of "Packing Piston-Heads for Pumps or any kind of Engines;" and I do hereby declare that the following is a true and correct description of my invention, reference being had to the accompanying drawings, in which—

Figure 1 represents a perspective view of my piston-head, showing the spring on which the packing is set.

Figure 2 is a sectional plan view through *a b* of the same spring.

Figure 3 is a lower end view (plan) of the piston-head, showing the spring-catches C S.

Figure 4 is an elevation view of my piston-head, showing how the packing is set on.

The object of my invention is to provide a packing for piston heads which, being set on in a peculiar way, will last much longer than packing set on according to the old system generally does.

To enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation.

I construct my piston-head in the shape shown in figs. 1 and 4, viz, composed of disks D and D' and cylinder part *c m*, forming recess between D and D', the whole held in proper relative positions by rod R. On part *d m* is set a spring, S, which is forced and held tight around *d m* by catch C S, as shown in fig. 1. Then the packing is placed on spiral spring S, so as to fill up the recess between D and D'. When the packing has been thus completed the catch-spring C S is drawn into D' by screwing screw P tight; and as soon as C S thus clears its catch on spiral spring S the latter springs out, forcing the packing, in a uniform manner, against the barrel of the pump or cylinder. It is obvious that as the packing wears out, the spiral spring S, by springing more and more out, will always force whatever remains of the packing against the barrel of the pump or body of the cylinder.

I do not intend to claim the diagonal packing shown in my drawings, but I recommend it as the best to be used in connection with my spring S and catch C S. It will keep better massed together in the back and forth movement of the piston-head, and will expand so as to insure a tight and safe joint.

Having thus described my invention, what I claim as my invention, and desire to secure by Letters Patent of the United States, is—

Spiral spring S, catch-spring C S, applied to piston-heads for pumps or any kind of engines, when combined with the packing of said piston-head, for the purpose and in the manner above set forth and described.

MIFFLIN W. BAILY.

Witnesses:

EBER MILES,

WM. WHITEHEAD.