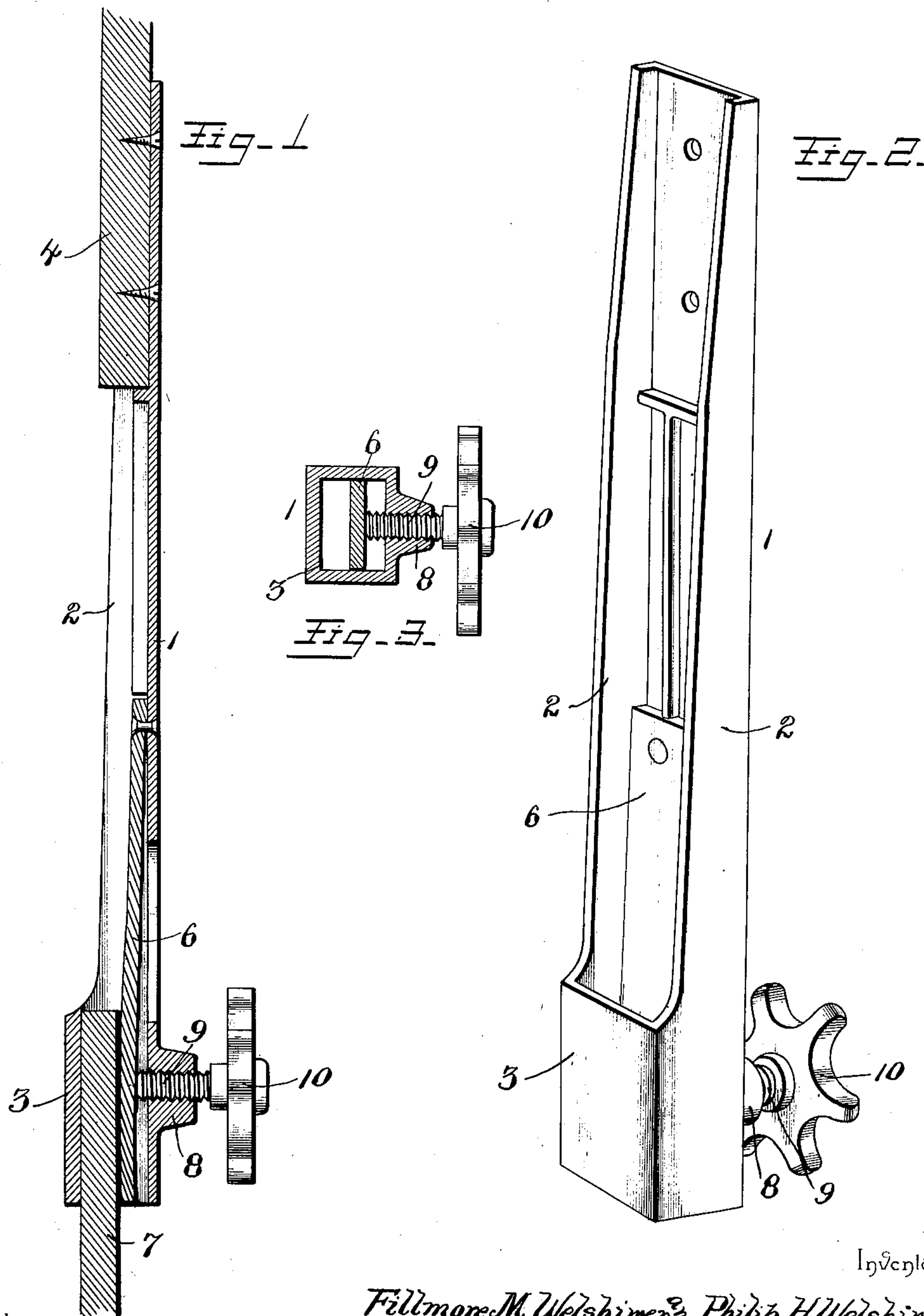


(No Model.)

F. M. & P. H. WELSHIMER.
PUMP ROD CONNECTION.

No. 547,906.

Patented Oct. 15, 1895.



Witnesses

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UNITED STATES PATENT OFFICE.

FILLMORE M. WELSHIMER AND PHILIP H. WELSHIMER, OF COLUMBIA CITY, INDIANA.

PUMP-ROD CONNECTION.

SPECIFICATION forming part of Letters Patent No. 547,906, dated October 15, 1895.

Application filed April 24, 1895. Serial No. 547,040. (No model.)

To all whom it may concern:

Be it known that we, FILLMORE M. WELSHIMER and PHILIP H. WELSHIMER, citizens of the United States, residing at Columbia City, in the county of Whitley and State of Indiana, have invented a new and useful Pump-Rod Connection, of which the following is a specification.

The invention relates to improvements in pump-rod connections.

The object of the present invention is to improve the construction of connections or couplings for attaching pistons of windmills to pump-rods and to dispense with the ordinary rigid pin or fastening device often employed for positively interlocking such parts and to provide a coupling or connection which will be simple and inexpensive and which may be readily adjusted for permitting the pump-rod to move freely on the pitman or the adjacent part when it is desired to uncouple the pump-rod and to avoid the necessity of disconnecting and entirely separating the pitman and the pump-rod.

Another object of the invention is to enable the pitman and the pump-rod of a windmill to be readily connected or coupled when desired without adjusting, fitting, and interlocking the parts.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

In the drawings, Figure 1 is a longitudinal sectional view of a coupling or connection constructed in accordance with this invention and shown applied to a portion of a pitman and the upper end of a pump-rod. Fig. 2 is a perspective view of the coupling or connection. Fig. 3 is a transverse sectional view of the same.

Like numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a bar, consisting, preferably, of a casting and provided with side flanges 2 and having a rectangular socket 3 at its lower end. Its upper end is secured to a windmill-pitman 4, and it is provided on its interior with a longitudinal strengthening-rib and a

transverse strengthening-rib, the latter forming a stop and having the lower end of the pitman abutting against it.

A resilient plate 6 is arranged on the lower portion of the bar 1 and extends longitudinally thereof between the side flanges 2 and terminates at the lower end of the bar. Its upper end is riveted or otherwise secured to the bar adjacent to the lower terminus of the longitudinal rib, and the lower portion of the resilient plate frictionally engages the upper end of a pump-rod 7, which fits in the socket 3 of the bar 1. The bar is provided adjacent to its lower terminal with an enlargement or boss 8 and has a threaded perforation receiving a screw 9, which is provided at its outer end with a hand-wheel 10, and which has its inner terminal engaging the resilient plate and adapted to force the same into frictional contact with the pump-rod. By turning the wheel to the right or to the left the pump-rod may be coupled or uncoupled, and this manner of engaging the pump-rod obviates the positive interlocking of the parts, and the pump-rod when uncoupled is adapted to slide freely in the socket of the bar 1, or the latter is adapted to reciprocate on the upper portion of the pump-rod, and it is not necessary to disconnect the parts entirely to effect the operation of uncoupling.

It will be seen that the coupling or connection is exceedingly simple and inexpensive in construction, that it is strong and durable and adapted to be readily applied to the ordinary construction of windmills, and that a pitman of a windmill may be readily coupled and uncoupled from the pump-rod without entirely disconnecting and separating the parts.

Changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

What we claim is—

A wind mill pitman and pump rod connection, comprising a bar having side flanges, and provided at its lower end with a socket and having intermediate of its ends the transverse and longitudinal supporting ribs, the transverse rib being arranged to form a stop or support for a pitman, a longitudinal resili-

ent plate arranged between the flanges of the
bar and having its upper end located adja-
cent to the lower terminal of the longitudinal
rib and secured to the bar, the lower portion
5 of the resilient plate being free and arranged
in the socket, and a screw mounted on the bar
and engaging the resilient plate and provided
at its outer end with a hand wheel, substan-
tially as described.

In testimony that we claim the foregoing as 10
our own we have hereto affixed our signatures
in the presence of two witnesses.

FILMORE M. WELSHIMER.
PHILIP H. WELSHIMER.

Witnesses:

WM. L. WELSHIMER,
WM. A. SISSON.