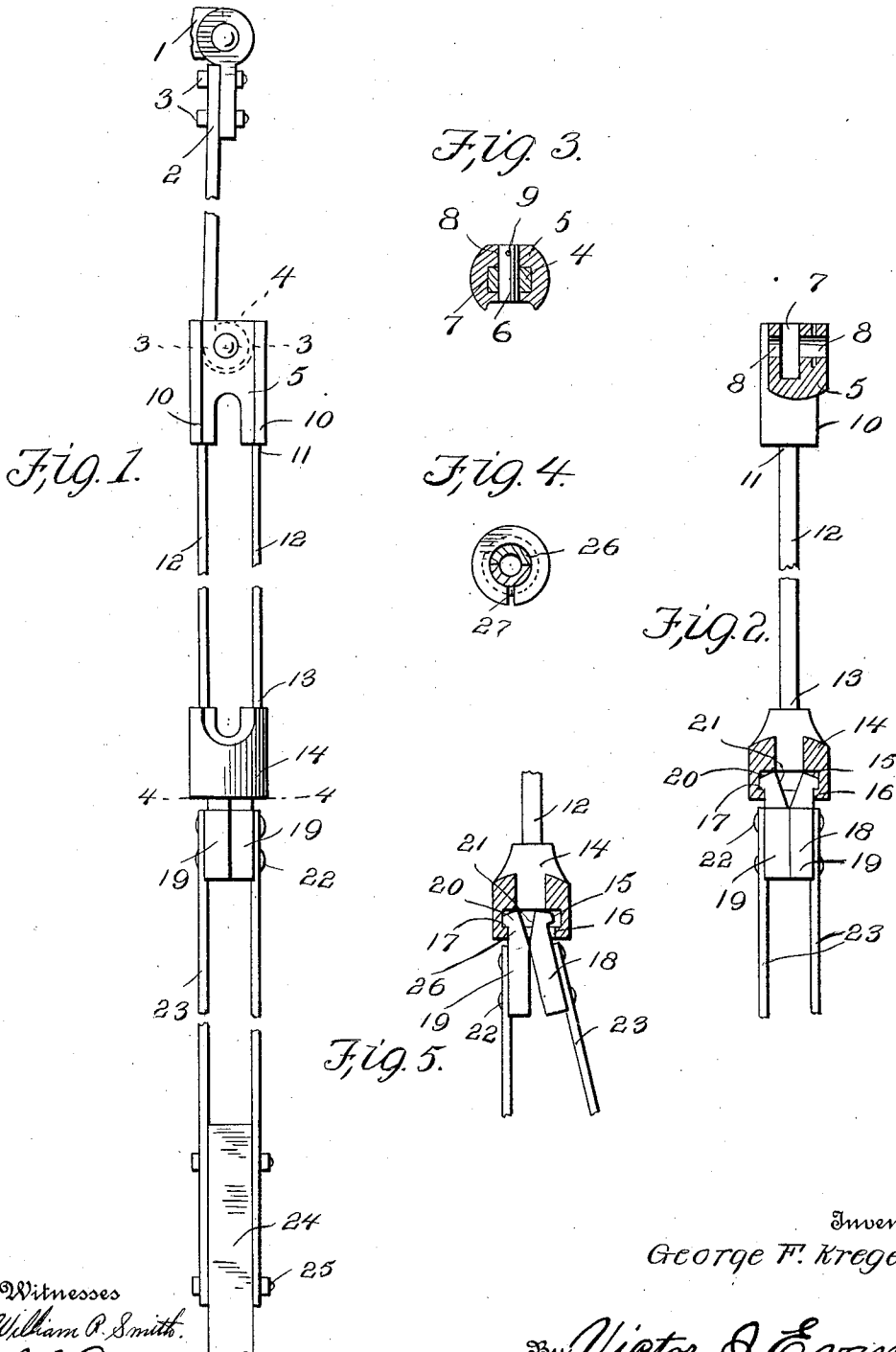


G. F. KREGEL.  
WINDMILL PITMAN.  
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1,058,603.

Patented Apr. 8, 1913.



Witnesses  
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# UNITED STATES PATENT OFFICE.

GEORGE F. KREGEL, OF NEBRASKA CITY, NEBRASKA.

WINDMILL-PITMAN.

1,058,603.

Specification of Letters Patent.

Patented Apr. 8, 1913.

Application filed September 16, 1911. Serial No. 649,679.

*To all whom it may concern:*

Be it known that I, GEORGE F. KREGEL, a citizen of the United States, residing at Nebraska City, in the county of Otoe and State of Nebraska, have invented new and useful Improvements in Windmill-Pitmen, of which the following is a specification.

The present invention relates to certain novel and useful improvements in wind mill pitmen.

In carrying out my invention, it is my purpose to provide a pitman whereby a direct lift is attained on the upward stroke of the pump rod or staff. Furthermore, I provide a pitman having a swiveled joint, the pitman block at the joint being slotted at the side thereof; so that the complete pitman may be removed from the pivot post of the mill while at the same time the ordinary pull out chain and wire of the wind mill may remain in place to hold the mill out of gear.

It is also my intention to provide a simple, compact, reliable and efficient wind mill pitman which is composed of relatively few parts, and these so constructed that they may be readily assembled in position for use, and quickly dismantled when desired.

With the above-recited objects, and others of a similar nature in view, the invention consists in the construction, combination and arrangement of parts, set forth in and falling within the scope of the appended claims.

In the drawing:—Figure 1 is a view in side elevation of my wind mill pitman, showing the same attached to the crank pin of the mill at one end, and to the pump staff at the other end. Fig. 2 is a fragmentary side elevation, partly in section of the device shown in Fig. 1. Fig. 3 is a cross sectional view taken on the line 3—3 of Fig. 1. Fig. 4 is a similar view taken on the line 4—4 of Fig. 1. Fig. 5 is a view of the swivel partially in elevation and partially in section, showing the manner of assembling the same.

Referring now to the accompanying drawings in detail, the numeral 1 designates a portion of the crank pin of the wind mill to which is connected a strap 2 through the medium of the cross bolts 3. The opposite end of the strap is rolled back upon itself to form the bearing or eye 4 which is connected to the block 5 of the pitman by means of the cross pin or bolt 6, the end of the strap carrying the eye being inserted in the

socket 7 in the block, the pin or bolt 6 passing through alining bores 8—8 in the block and through the eye of the strap, the pin being secured in position by any suitable means such as the cotter pin 9. To the ends 10—10 of the block are secured the end portions 11—11 of the parallel bars 12 of the pitman, the opposite ends of said bars being connected as at 13 to the pitman block 14. This latter is formed with a recess 15 which is provided with a reduced entrance or opening 16, communicating therewith, whereby a shoulder 17 is formed, such shoulder being in the nature of an internal flange. Adapted to be connected to the pitman block 14 is a swivel block 18 formed of the two sections 19—19, each section terminating at its outer end in a head 20, which when the parts are assembled, is adapted to lie in the recess 15, the inner faces 21 of each head section being beveled upwardly and inwardly as clearly shown in the drawings. Each swiveled block section 19 is connected by bolts 22 to a bar 23, the two parallel bars 23 being suitably spaced apart and connected at their lower ends to the pump rod 24 by means of the bolts 25.

It is to be noted that the swivel block sections are each provided with a reduced neck portion 26 which receives the shoulder or flange at the recessed portion of the pitman block 14.

From the above description, taken in connection with the accompanying drawings, the construction and manner of assembling and employing the pitman will be readily apparent. The strap 2 having been connected with the crank pin, the pitman is attached to the eye 4 of the strap by means of the pin 6, and the swivel block is connected to the opposite pitman block 14, as shown in Fig. 5, that is to say, one head section at a time is inserted in the recess portion of the block, so that when the two bars 23 are brought into parallelism so that the adjacent faces of the swivel block sections lie in contact, the swivel block will be movably secured to the pitman block. The opposite ends of the bars 23 are secured to the pump staff or rod by means of the bolts 25 or the like. The pitman block 14 which forms the swivel casting is slotted longitudinally as at 27, so that the pull-out chain and wire, which is not shown in the drawings, but which passes by the upper pitman block 5, and through the lower pitman block 14 and

swivel blocks may be operated to hold the mill out of gear, while the pitman may be disconnected as desired without interfering with said chain and wire.

5 It will be noted that I have provided a simple, strong and reliable form of pitman which is especially adapted for wind mills and by means of which a direct pumping stroke may be attained.

10 I claim:—

1. A pitman comprising a block, a strap connected to one end thereof, a second block formed with a recess therein, a swivel block formed of two sections each having a head 15 portion adapted when the swivel block is assembled to lie and swivel within the recessed portion of the second block, said sections being provided with proximate beveled surfaces whereby the sections may be inserted in the recess and removed therefrom, and connecting bars secured to the sections 20 of the swivel block.

2. A pitman comprising a block, a strap connected to one end thereof, a second block 25 formed with a recess therein and having a shoulder extending into the recess, a swivel block formed of two sections each having a head portion adapted when the swivel block is assembled to lie and swivel within the re-

cessed portion of the second block and en- 30 gage the shoulders thereof, said sections being also provided with proximate beveled surfaces whereby the sections may be inserted into and removed from the recess in the said block, and connecting bars secured 35 to the sections of the swivel block.

3. The combination with a pump rod, of a pitman comprising a block, a strap connected to one end thereof, a second block formed with a recess therein and having a 40 marginal shoulder extending into the recess, a swivel block formed of two sections each having a head portion adapted when the swivel block is assembled, to lie and swivel within the recessed portion of the second 45 block and engage the shoulder thereof, said sections having their adjacent surfaces beveled at the extremities within the recess whereby the blocks may be inserted into and removed from the recess in the block, and 50 connecting bars between the sections of the block and the pump rod and spaced apart.

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

GEORGE F. KREGEL.

Witnesses:

MAMIE PHIPPS,  
R. M. TAGGART.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."