

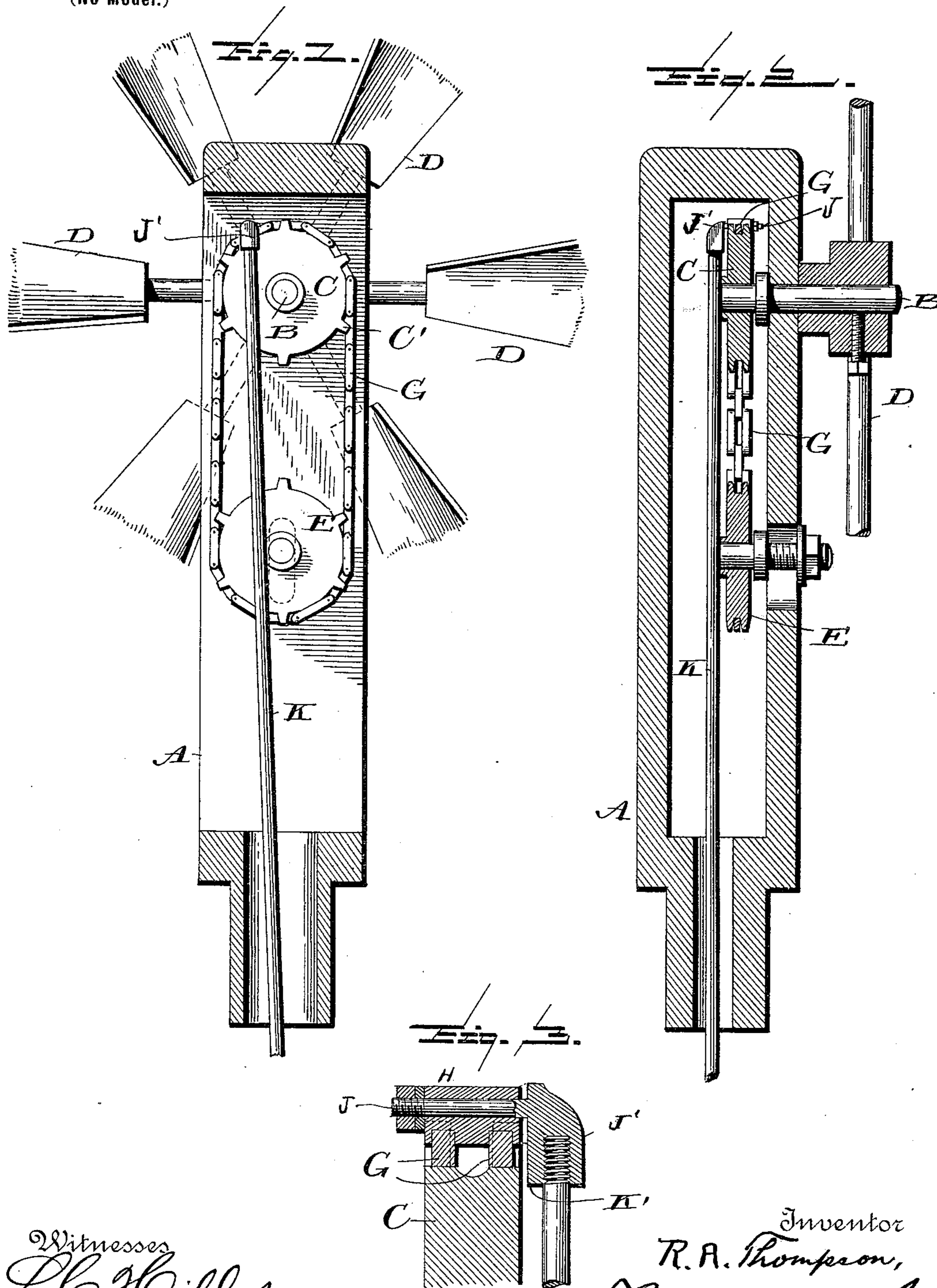
No. 622,089.

Patented Mar. 28, 1899.

R. A. THOMPSON.
GEARING FOR WINDMILLS.

(Application filed Feb. 1, 1899.)

(No Model.)



Witnesses
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ROBERT A. THOMPSON, OF HARPER, KANSAS, ASSIGNOR OF ONE-HALF TO
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GEARING FOR WINDMILLS.

SPECIFICATION forming part of Letters Patent No. 622,089, dated March 28, 1899.

Application filed February 1, 1899. Serial No. 704,176. (No model.)

To all whom it may concern:

Be it known that I, ROBERT A. THOMPSON, a citizen of the United States, residing at Harper, in the county of Harper and State of Kansas, have invented certain new and useful Improvements in Gearing for Windmills, &c.; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

15 This invention relates to new and useful improvements in gearing, and especially to a gearing which may be used with windmills, mowers, binders, and various kinds of machinery to which different gearing might be adapted, and more specifically the invention resides in the provision of an endless chain mounted on suitable sprocket-wheels, to one of the links of which chain is pivoted a member carrying a pitman which is adapted to be reciprocated as the chain winds about the sprocket-wheel, suitable connections being provided whereby the pitman may be connected to a pump-rod or other part of the mechanism which is to be driven thereby.

30 The invention relates, further, to the provision of a gearing which is adapted for use in connection with windmills or other machinery, and it consists in the provision of two sprocket-wheels, one of which is adapted to be adjustable, and over which wheels an endless sprocket-chain is driven by means of a windmill or other source of supply of power being imparted to one of the wheels, and to one of the links of said sprocket-chain is pivoted a member carrying a pitman, which latter in the present case is shown as being adapted to be connected to a pump-rod.

45 To these ends and to such others as the invention may pertain the same consists, further, in the novel construction, combination, and adaptation of parts, as will be hereinafter more fully described and then specifically defined in the appended claim.

My invention is clearly illustrated in the accompanying drawings, in which similar letters of reference indicate like parts throughout the views, and in which drawings—

Figure 1 is a perspective view of my gearing shown as connected to a sprocket-chain, one of the wheels over which the sprocket-chain runs being connected to the shaft of a windmill; and Fig. 2 is an enlarged detail view showing the connection of the pitman to the chain.

Reference now being had to the details of the drawings by letter, A designates the standard of a windmill, carrying a shaft B, to one end of which is secured a sprocket-wheel C, having teeth C' about its circumference, and to the opposite end of said shaft is mounted a wind-wheel D. Located beneath the said sprocket-wheel on the standard is a second sprocket-wheel E, which is similar in construction to the first-mentioned sprocket-wheel and is mounted on a stub-shaft which is adjustable vertically, whereby the tension of the chain G, which runs about the circumference of the sprocket-wheels may be adjusted. To any one of the links of said sprocket-chain may be connected an eye H, in the aperture of which is pivoted the stub-shaft J, integral with the shouldered socket member J'. This eye, secured to the chain, is preferably on the outside of the chain, and at the end of said stub-shaft is a nut or other suitable fastening to retain said member J' to the chain and cause it to travel about the wheels with the chain. The pitman K is fitted in the screw-threaded hole in the lower end of said member J', and the inner face of the latter, K', serves as a guide and prevents the pitman from engaging with the edge of the sprocket-wheel and the teeth carried thereby as the link carrying said eye turns over the circumference of the sprocket-wheels. The lower end of the pitman may be connected to a pump-rod, as shown, or it may be connected to any other mechanism for any use to which it may be applicable.

While I have shown the shaft of one of the sprocket-wheels as driven by a wind-wheel,

it will be understood that the sprocket-wheels may be driven from any source of supply of power desired.

What I claim to be new, and desire to secure
5 by Letters Patent, is—

In a gearing, the combination with the chain and sprocket-wheels, one of which is adjustable, an eye H secured to one of the links of the chain, a socket member J' having an in-
10 tegral stub-shaft J engaging with said eye

and held thereto by means of a nut, the pitman with threaded end fitted in the threaded socket in said member J', as shown and described.

In testimony whereof I affix my signature 15
in presence of two witnesses.

ROBERT A. THOMPSON.

Witnesses:

F. R. ZACHARIAS,
C. D. ROUSE.