

(Model.)

D. AUSTIN.

ATTACHMENT TO WINDMILLS, &c.

No. 272,618.

Patented Feb. 20, 1883.

Fig. 2.

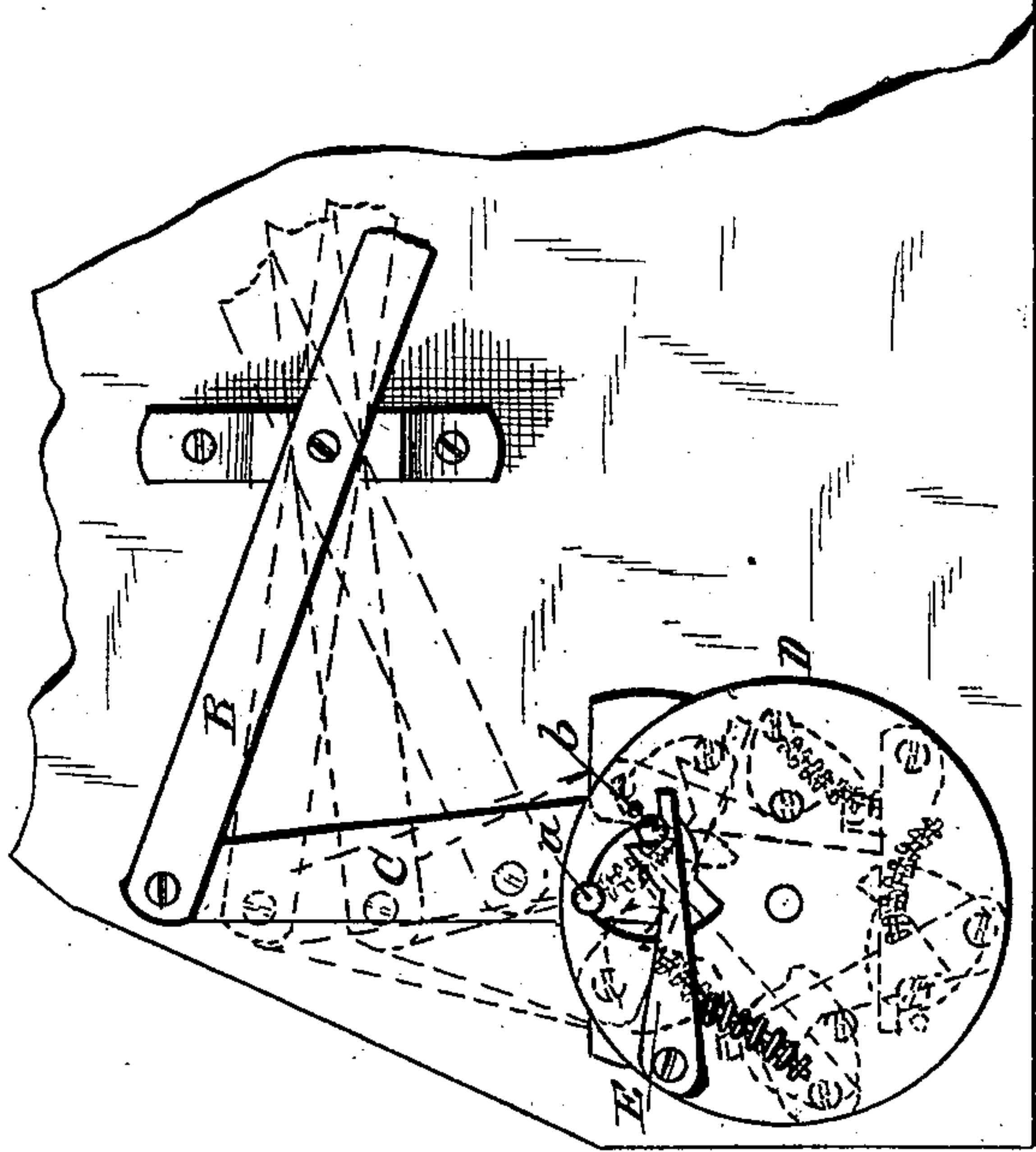
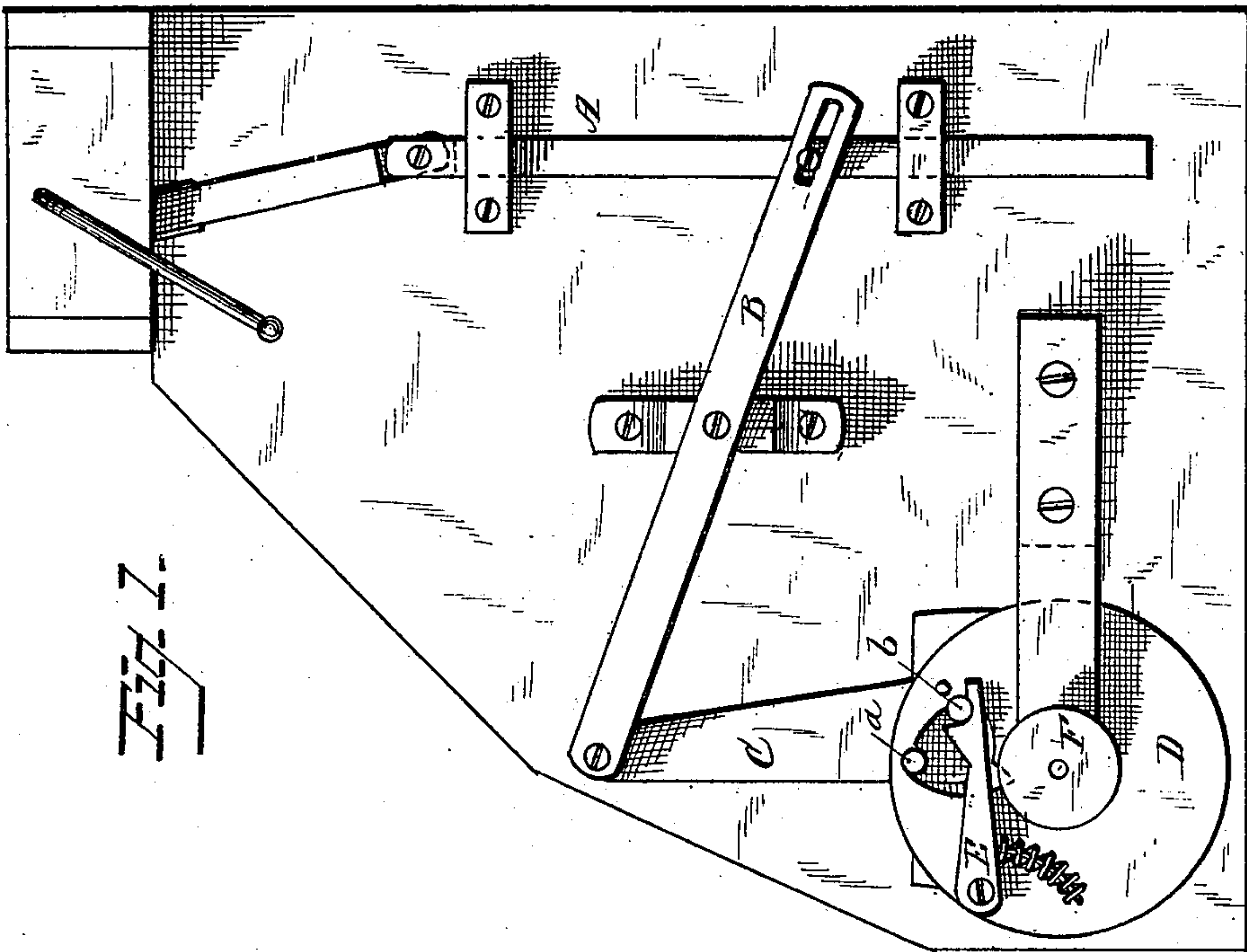


Fig. 1.



WITNESSES
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ATTACHMENT TO WINDMILLS, &c.

SPECIFICATION forming part of Letters Patent No. 272,618, dated February 20, 1883.

Application filed January 13, 1883. (Model.)

To all whom it may concern:

Be it known that I, DINSMORE AUSTIN, a citizen of the United States, residing at Denison, in the county of Crawford and State of Iowa, have invented certain new and useful Improvements in Attachments for Windmills, &c.; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a side elevation of my invention; and Fig. 2, a similar view, showing its operation.

This invention relates to certain new and useful improvements in mechanical movements for attachment to windmills, foot-powers, harvesters, &c., for the purpose of obtaining a continuous rotary motion unimpeded by dead-centers; and the invention consists of an arm provided at its lower ends with wrist-pins engaging with a cam shaped opening in a driving-wheel, said wrist-pins being placed obliquely to each other, and following the line of contour of the cam-shaped opening in opposite directions, their action being controlled by a suitable spring-latch upon the face of the driving-wheel, the upper end of the arm being connected with a lever, which in turn connects with the pitman-rod of the windmill or other power to operate the whole, as will be hereinafter more fully described.

In the accompanying drawings, A represents the pitman-rod of a windmill or other power, having connected thereto the slotted end of a lever, B. To the other end of this lever is connected an arm, C, having at its lower end wrist-pins *a b*, placed obliquely to each other, and engaging with a cam-shaped opening in a driving-wheel, D. As motion is imparted to the arm C through the medium of the lever and pitman-rod connecting with the windmill or other power, the wrist-pins *a b* follow the line of contour of the cam-shaped opening in the driving-wheel D in a direction opposite to each other, each pin in its turn coming in contact with the inclined shoulder *c* of a spring-latch, E, by which it is prevented

from slipping back, and compelled to move forward until released by the raising of said latch as the other pin comes in contact therewith, as shown by dotted lines, Fig. 2, thereby avoiding any stoppage on a dead center, but giving a continuous rotary motion to the driving-wheel D and the belt-pulley F, attached to its shaft for the purpose of connection with operative machinery.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The arm C, having its lower end provided with wrist-pins *a b*, placed obliquely to each other, and its upper end connected to a lever, B, in turn connecting with the pitman-rod of a windmill or other power, the said wrist-pins engaging with and following the line of contour of a cam-shaped opening in a driving-wheel, D, and their action controlled by means of a suitable spring-latch, E, substantially as shown, and for the purpose described.

2. The arm C, having at its lower end wrist-pins *a b*, engaging with a cam-shaped opening in a driving-wheel, D, in combination with the lever B, pitman-rod A, and spring latch E, substantially as and for the purpose set forth.

3. The driving-wheel D, provided with a cam-shaped opening and a spring-latch, E, in combination with an arm, C, having wrist-pins *a b*, and the lever B, adapted to connect with the pitman-rod of a windmill or other power, substantially as and for the purpose specified.

4. The lever B, adapted to connect with the pitman-rod of a windmill or other power, in combination with the arm C, provided at its lower end with wrist-pins *a b*, engaging with a cam-shaped opening in the driving-wheel D, and the spring-latch E, having an inclined shoulder, all constructed and arranged to operate substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

DINSMORE AUSTIN.

Witnesses:

L. M. SHAW,
G. W. APPLE.