

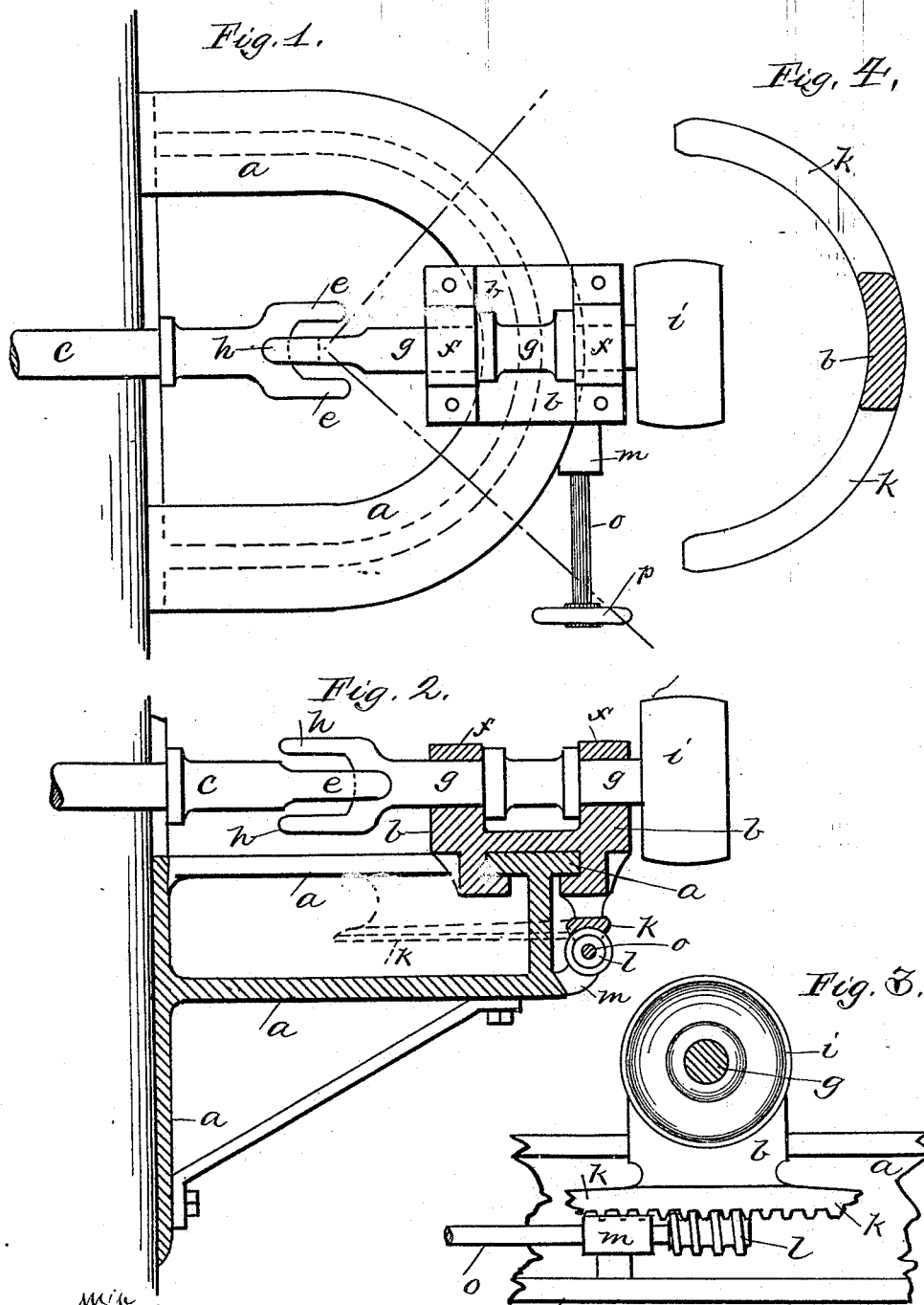
Model.)

C. DOERING.

ATTACHMENT FOR THRASHING MACHINES.

No. 418,312.

Patented Dec. 31, 1889.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

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## ATTACHMENT FOR THRASHING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 418,312, dated December 31, 1889.

Application filed May 21, 1889. Serial No. 311,615. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES DOERING, a citizen of the United States, residing at Library, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in an Attachment for Thrashing-Machines; and I do hereby 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 pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improved means or device for adjusting the belt-wheel or driving-pulley on thrashing-machines; and it consists of a circular guide having mounted thereon the driving-pulley loosely attached to the power-shaft and in a manner that will admit of the same partly revolving about a given point, together with a means for locking and revolving the said pulley; and also certain other details of construction and combination of parts, as will be fully set forth hereinafter.

In the accompanying drawings, Figure 1 is a plan view of my device constructed in accordance with my invention. Fig. 2 is a central sectional elevation of the same. Fig. 3 is a front elevation of a portion of the device, showing the position of the worm and ratchet. Fig. 4 is a plan view of the ratchet detached from the frame.

To put my invention into practice, I provide a semicircular guide or frame *a*, and mount thereon a carriage *b*. This frame *a*, I attach to the side of a thrashing-machine in a position immediately below the main shaft *c*, which projects a short distance outward, and is provided with a fork *e*. Mounted in suitable bearings *f* on the carriage *b* is a short shaft *g*, the inner end of which is provided with a fork *h*, which interlocks with that on the driving-shaft *c*. To the other end of this short shaft *g* is attached the driving-pulley *i*. Beneath the carriage *b*, and integral therewith, is a semicircular ratchet *k*, which meshes with a worm *l*, secured in a bearing *m*, formed on the frame *a*. This worm *l* is provided with a shaft *o* and small

hand-wheel *p*, which, when revolved, moves the carriage *b* about the guide *a*.

In operating thrashing-machines the power is placed some distance away, or to the rear of the machine, which renders the connection by a belt between the two a difficult and tedious operation. By means of this device the driving-pulley *i* on the machine may be set at any suitable angle to correspond or be in line with the driving-pulley on the engine. The junction of the short shaft *g* with the main shaft *c* is such as to admit of the one being out of line with the other and at the same time not interfere with the rotary motion of the other.

It is obvious that the connection between the two shafts *c g* may be varied and any well-known universal joint be used.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a device for the purpose described, the combination consisting of the semicircular frame *a*, having a carriage *b* mounted thereon, the short shaft *g*, loosely coupled to the driving-shaft *c* by means of the forked ends *e h*, formed integral with the said shafts *b g*, the semicircular ratchet *k* and worm-wheel *l*, for moving and locking the said carriage *b*, the shaft *o*, and hand-wheel *p*, for operating the worm-wheel *l*, substantially as and for the purpose set forth.

2. In a device for the purpose described, the combination consisting of the frame *a*, having mounted thereon a carriage *b*, the short shaft *g*, coupled by a flexible joint to the driving-shaft *c*, a driving-pulley *i*, attached to the said shaft *g*, the semicircular ratchet *k* and worm-wheel *l*, for moving and locking the said carriage *b*, and the hand-wheel *p* and shaft *o*, for operating the worm *l*, substantially as described.

In testimony that I claim the foregoing I hereunto affix my signature this 16th day of May, A. D. 1889.

CHARLES DOERING. [L. S.]

In presence of—

GEO. JOHNSTON,  
M. E. HARRISON.