

No. 631,319.

Patented Aug. 22, 1899.

H. McDERMOTT.  
COILER HEAD OF CARDING ENGINES.  
(Application filed Jan. 3, 1899.)

(No Model.)

Fig. 1.

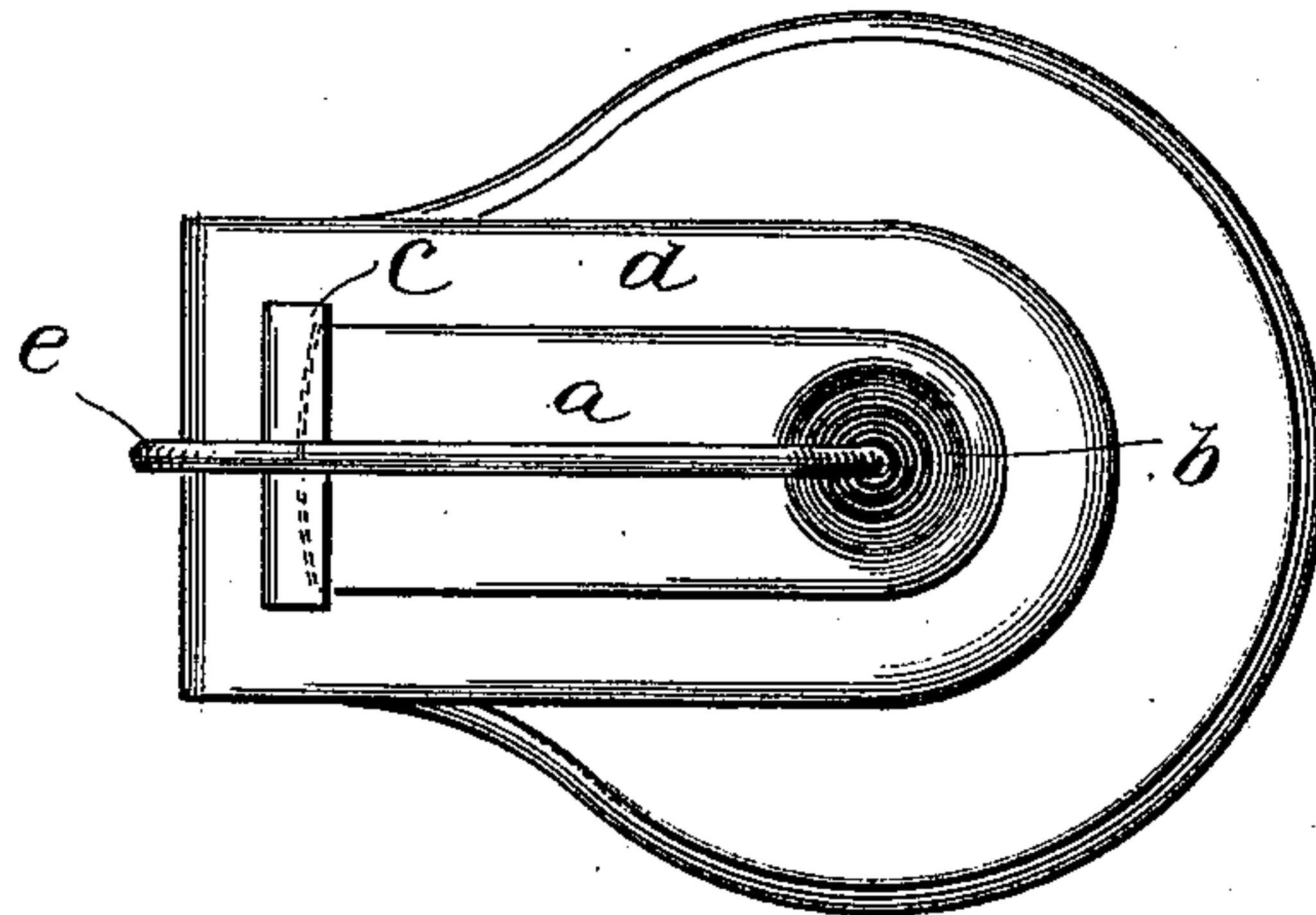


Fig. 2.

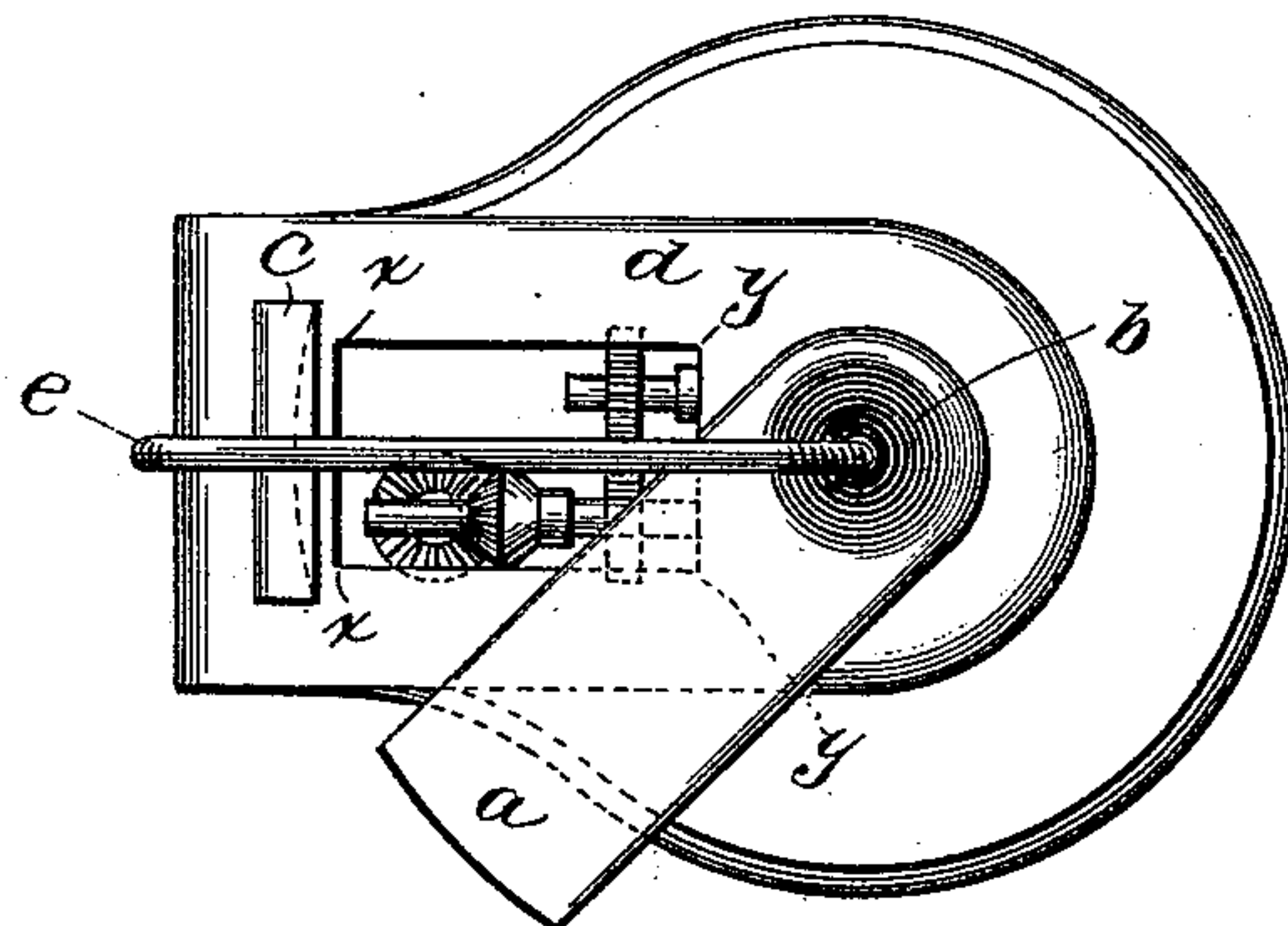
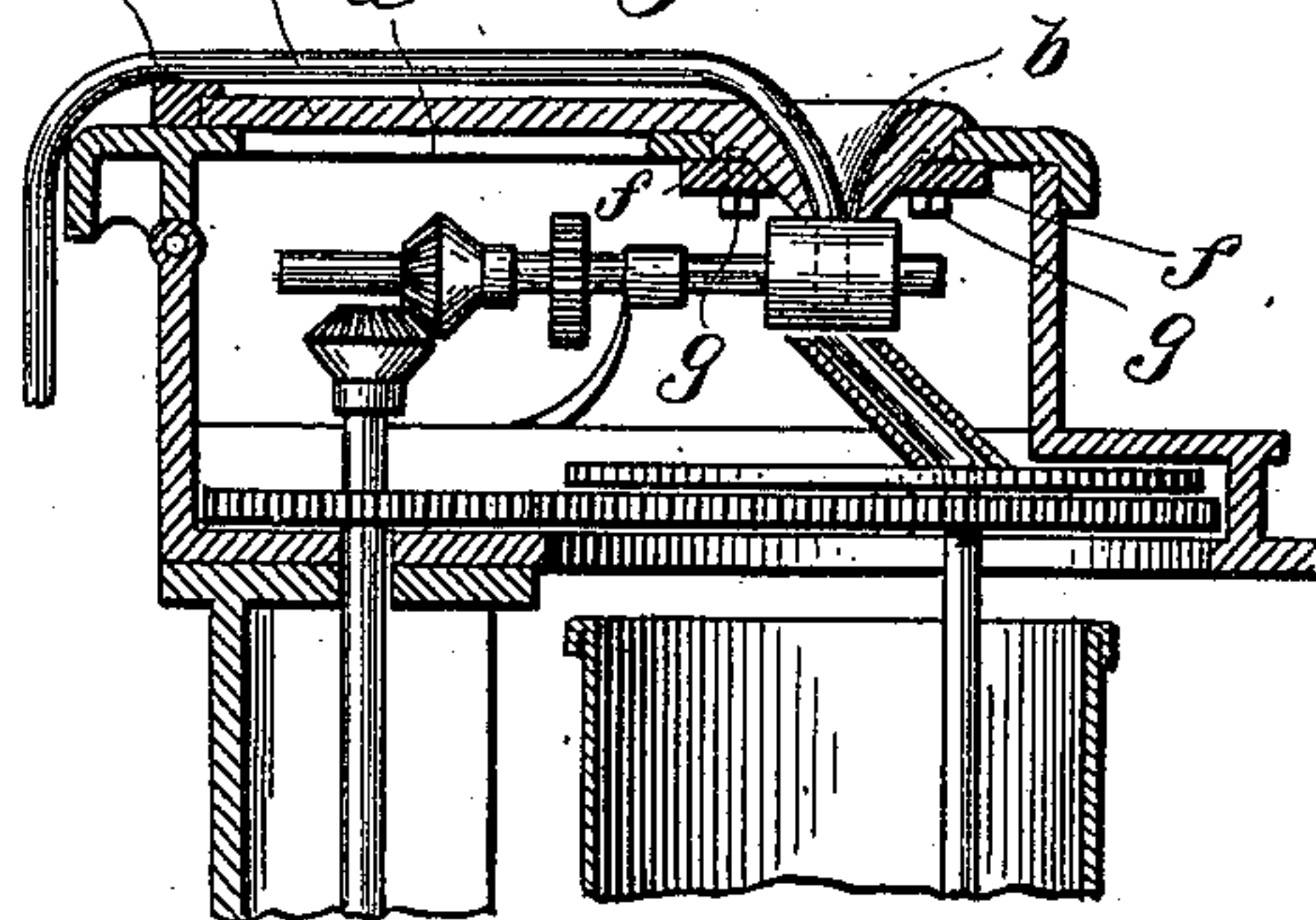


Fig. 3.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

HENRY McDERMOTT, OF LOWELL, MASSACHUSETTS.

## COILER-HEAD OF CARDING-ENGINES.

SPECIFICATION forming part of Letters Patent No. 631,319, dated August 22, 1899.

Application filed January 3, 1899. Serial No. 700,942. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY McDERMOTT, of Lowell, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Coiler-Heads of Carding-Engines, of which the following is a specification.

My invention relates to improvements in the coiler-head of a carding-engine, of which the top is constructed with an aperture exposing the operating machinery of the coiler, said aperture being covered or uncovered at will either by a straight slide or by an elongation of the trumpet-head so fitted at the end which is over the coiler calender-rolls as to permit the trumpet to be swung horizontally without altering the relative position of the trumpet to the said rolls; and the objects of my invention are to allow the machinery on the inside of the coiler-head to be inspected or oiled without stopping the carding-engine, the coiling machinery, or breaking the sliver as it runs from the carding-machine across the top of the coiler-head to the coiler. I attain these objects in the manner illustrated by the accompanying drawings, in which—

Figure 1 is a top view of the machine as it appears with the aperture in the top closed by the swinging trumpet-head; Fig. 2, a top view of the machine as it appears with the trumpet-head swung away from the coiler-head, so as to fully uncover the aperture and expose the inside machinery. Fig. 3 is a vertical section of the coiler-head, showing the manner of attaching the trumpet-head to the coiler-head and the passage of the sliver without interference from the moving trumpet-head.

Similar letters refer to similar parts throughout the several views.

*a* is the swinging trumpet-head.

*b* is the trumpet-guide, through which the sliver runs to the coiler and always maintains its relative position whether the trumpet-head be closed or open.

*c* is the back-stop, which holds the trumpet-head in position when closed and also keeps the sliver elevated above the end of the trumpet.

*d* is the stationary top of the coiler-head.

*e* is the sliver.

*f* is the washer on the under side of the

trumpet-head, attached to the trumpet-head by the screws *g g*. This arrangement allows the trumpet to swing horizontally, but prevents the trumpet from moving in any other direction.

*x x y y* in Fig. 2 show the opening in the top of the coiler-head, exposing the machinery.

By the construction of the various coiler-heads now in use it is necessary to stop the whole machine in order to inspect or oil the machinery used in driving a coiler for a carding-engine, or their construction is of such a clumsy or intricate nature that they are easily broken or constantly out of repair, thereby making considerable waste, loss of time, and breaking the sliver. By my invention these defects are overcome, the sliver remains unbroken during the process of oiling or inspecting, and the mechanism is of the simplest kind.

An opening or aperture is cut in the top of the coiler-head over the machinery which it is necessary to oil or inspect, and this opening when not in use for the above purpose is tightly closed by a horizontal slide or by a special construction of the trumpet-head, which in most other coiler-heads is an immovable plate attached to the top of the coiler-head or to the bearings of the calender-rolls, while in my invention the trumpet-head is movable horizontally, but prevented from moving in any other direction by being screwed on the under side to a washer which overlaps the under surface of the top of the coiler-head, thereby allowing the trumpet-head to swing horizontally, but in no other direction and holding the trumpet-guide in its place directly over the coiler calender-rolls. The trumpet-head is extended away from the trumpet-guide and is of sufficient width and length to exactly cover the aperture in the top of the coiler-head, and when it is desired to inspect the gearing and machinery in the coiler-head the trumpet-head is swung to the right or left, so as to fully uncover the said aperture. During this process the sliver continues to run across the opening and into the trumpet-guide and rolls without breakage or interruption and it is unnecessary to stop any part of the machinery.

While I prefer the above-described method of constructing my improvement, I do not

confine my invention to the precise kind of sliding or swinging cover or aperture herein described.

What I claim as my invention, and desire  
5 to cover by Letters Patent, is—

The combination with the casing of a coiler-head containing the driving-gear and having in its top an opening, of a trumpet-guide adapted to revolve in the casing, and a slide

or cover attached thereto and revoluble therewith to cover and uncover the opening in the casing, substantially as described. 10

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

HENRY McDERMOTT.

Witnesses:

FISHER H. PEARSON,  
JOHN J. DEVINE.