

H. W. & D. R. BLAKESLEE.
 ECCENTRIC RING.
 APPLICATION FILED SEPT. 19, 1910.

1,013,367.

Patented Jan. 2, 1912.

2 SHEETS—SHEET 1.

Fig. 1.

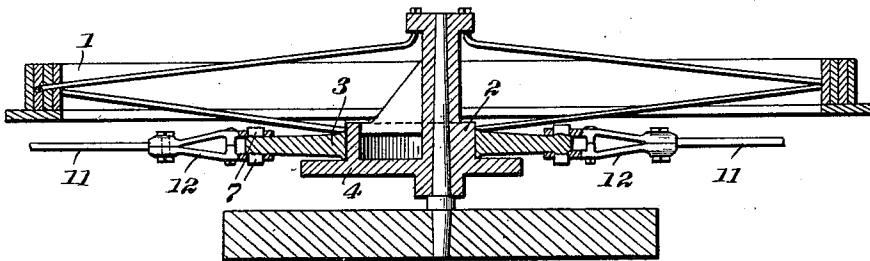
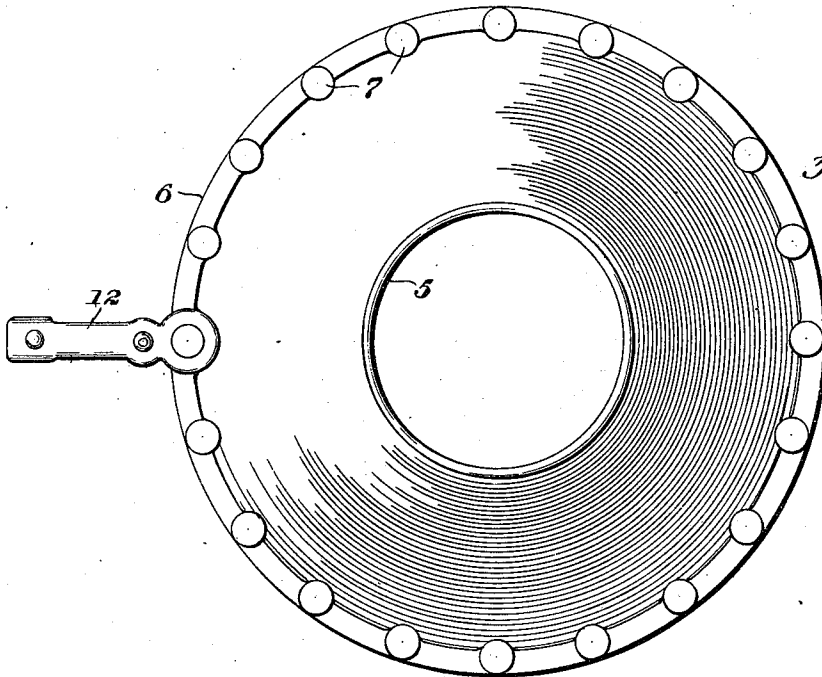


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

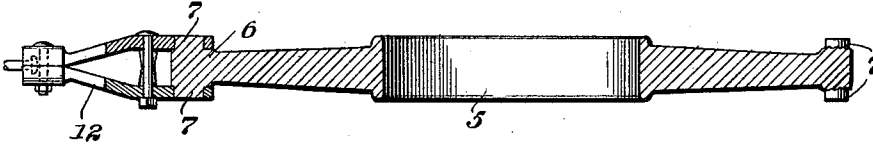


Fig. 4.

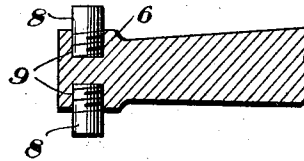


Fig. 5.

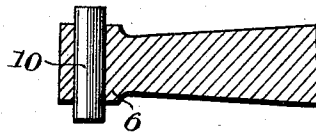


Fig. 6.

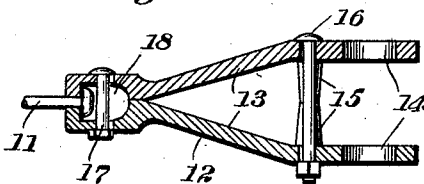
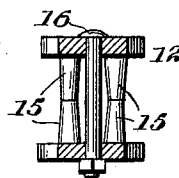


Fig. 7.



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UNITED STATES PATENT OFFICE.

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ECCENTRIC RING.

1,013,367.

Specification of Letters Patent.

Patented Jan. 2, 1912.

Application filed September 19, 1910. Serial No. 582,749.

To all whom it may concern:

Be it known that we, HENRY W. BLAKESLEE, a citizen of the United States, residing at Nowata, in the county of Nowata and State of Oklahoma, and DANIEL R. BLAKESLEE, a citizen of the United States, residing at Van Buren, Grant county, Indiana, have invented certain new and useful Improvements in Clevises for Eccentric Rings; and we 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.

Our invention relates to clevises for eccentric rings and it consists in the construction and arrangement of parts, as will be hereinafter described and particularly pointed out in the claim.

In the accompanying drawings: Figure 1 is a central vertical sectional view of an oil well pumping mechanism showing the application of the improved ring; Fig. 2 is an enlarged plan view of the ring; Fig. 3 is an enlarged central vertical section of the same and one of the rod attaching clevises; Fig. 4 is a similar view of a portion of the ring showing a different construction and arrangement of the rod attaching studs; Fig. 5 is a view similar to Fig. 4 showing still another form of studs; Fig. 6 is a vertical longitudinal section of one of the pull rod attaching clevises; Fig. 7 is a cross sectional view of the same.

Referring more particularly to the drawings 1 denotes the band wheel or operating pulley of the device. The wheel or pulley 1 is provided with the usual or any suitable form of eccentric hub 2 adapted to receive the eccentric ring 3. The hub is here shown as being provided with a radially projecting flange 4 upon which the ring rests and is supported in operative engagement with the wheel.

Our improved eccentric ring 3 comprises an inner hub engaging portion 5 and an outer integral annular flange like portion 6. On the opposite sides of the flange 6 is arranged an annular series of cylindrical studs or lugs 7 which are spaced apart around the ring, as shown. The studs on one side of the flange are directly opposite

or in line with the studs on the opposite side of the flange.

The studs may be formed integral with the ring as at 7 in Figs. 2 and 3 of the drawing or said studs may be in the form of threaded studs 8 which are screwed into threaded sockets 9 formed in the opposite sides of the flange 6 of the wheel, as shown in Fig. 4 of the drawings. The studs may also be constructed in the form of pins 10 adapted to be driven through or shrunk into rigid engagement with apertures formed in the flange of the ring as shown in Fig. 5 of the drawing.

The pull rods 11 may be attached to the studs or lugs by any suitable means, said means being here shown and preferably consists of a series of clevises 12. The clevises 12 are formed in two counterpart sections 13 having in their inner ends alined stud engaging apertures 14 which are engaged with the studs on opposite sides of the ring as shown. The sections 13 are spaced apart and braced near their apertured ends by pairs of spacing lugs 15 between which and through the sections is arranged a clamping bolt 16. A similar bolt 17 is arranged through the outer ends of the sections whereby the latter are rigidly secured together in spaced relation. In the inner sides of the outer ends of the sections are formed recesses 18 which open through the end of the sections and form sockets in which the ends of the pull rods are secured.

In the usual construction of eccentric rings wherein holes are provided through the outer portion of the ring for the connection of the pull rods, the holes are soon worn so as to greatly impair the strength of the ring, said holes sooner or later wearing entirely through the edge of the ring. The holes when worn also give more or less play or lost motion to the rods which causes them to strike the sides of the holes thus causing rattling and noise which increases as the holes wear longer.

By means of our improved attaching studs for the pull rods the objections and disadvantages enumerated above are entirely obviated and a strong, durable easy running and noiseless connection is provided for the pull rods.

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Having thus described our invention, what we claim is:

The combination with a flanged eccentric ring having studs projecting from both sides of its periphery, of a clevis formed by a plurality of sections and provided with apertures in its inner ends to connect with said studs, a plurality of projecting pins for each section secured thereto adjacent the apertures, bolts inserted through the sections and between the pins so as to permit the free ends of the pins to contact with each

other and space the inner ends of the sections apart, said sections having their outer ends clamped together by a bolt so as to provide a recess therebetween, a pull rod inserted through the outer end of the clevis and having a head thereon which projects into the recess, said rod being swiveled to the recessed end of the clevis.

In testimony whereof we have hereunto set our hands in presence of two subscribing witnesses.

HENRY W. BLAKESLEE.
DANIEL R. BLAKESLEE.

Witnesses:

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H. S. SEED.

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