

(No Model.)

O. J. CORNOYER.

ROTARY COLTER.

No. 257,662.

Patented May 9, 1882.

Fig. 1.

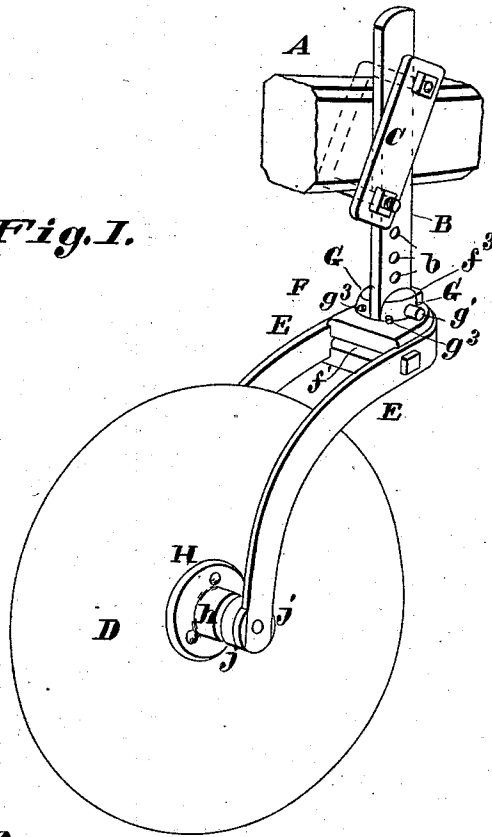


Fig. 3.

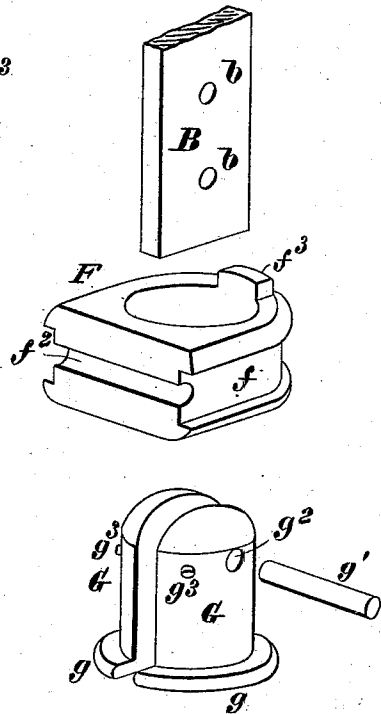


Fig. 2.

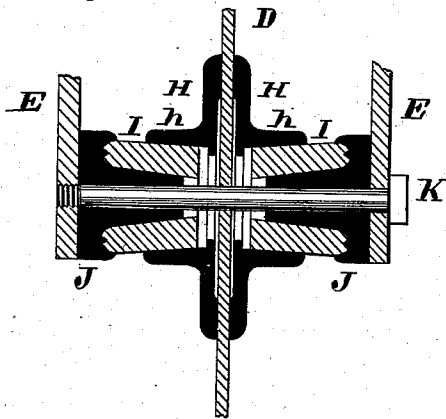
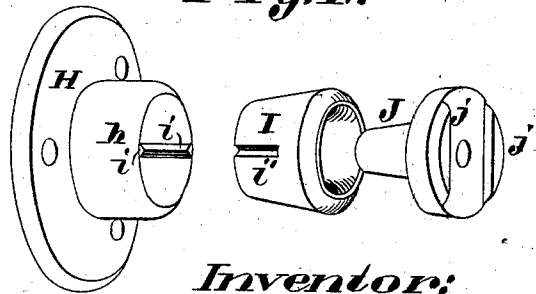


Fig. 4.



Attest:
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UNITED STATES PATENT OFFICE.

OSCAR J. CORNOYER, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-HALF TO
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ROTARY COLTER.

SPECIFICATION forming part of Letters Patent No. 257,662, dated May 9, 1882.

Application filed November 15, 1881. (No model.)

To all whom it may concern:

Be it known that I, OSCAR J. CORNOYER, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Rotary Colters, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to the manner of securing the yoke of the cutter to the standard, which is attached to the plow-beam; and my invention relates, secondly, to the manner of securing the cutter to the yoke, all of which will fully appear when the parts are described in connection with the accompanying drawings, in which—

Figure 1 is a perspective view. Fig. 2 is a sectional view, showing cutter attachment. Fig. 3 shows perspective views of the parts for securing the yoke to the standard, and Fig. 4 shows perspective views of the parts for securing the yoke to the cutter.

A represents part of a plow-beam, to which the standard B is secured by a suitable clevis, C.

D is the cutter, and E is the connecting-yoke. The yoke is connected to the standard in the following manner:

F is a flanged box, the flanges making a groove, f , in which the bend of the yoke fits.

f' is a bolt, which passes through the arms of the yoke just behind the box. The box has a groove, f^2 , through which the bolt f' passes.

G G are bearing-blocks, having flat surfaces which bear against the standard B, and round surfaces which have journal-bearing in the box F. The blocks have at bottom outturned flanges g , to form a lower bearing for the box. The blocks are secured to the standard by a removable pin, g' , passing through holes g^2 in them and through any one of a series of holes, b , in the standard B. Thus it will be seen that the box can be vertically adjusted on the standard with ease to vary the depth of the cutter.

The ends of the pin g' form the upper bearing between the bearing-blocks and the box. The blocks have small teats g^3 , secured thereto or cast thereon just above the box to prevent them from falling out when the pin g' is withdrawn to adjust the cutter.

f^3 is a lug or projection on the box F, which prevents the cutter from turning too far in either direction out of the line of draft by coming in contact with the ends of the pins g' .

The yoke is connected to the cutter in the following manner:

H H are disks bolted or riveted to the cutter D, and having projections h h , forming the hub of the cutter.

I I are bushings, (preferably of wood or composition,) of conical shape, and held from turning in the hub by flanges i on the hub entering grooves i' in the bushings. (See Fig. 4.) The bushings have conical-shaped openings and grooves to receive similarly-shaped ribbed arbors J J, upon which the bushings turn. The connections between the outer ends of the bushings and the arbors are such as to exclude the dust and dirt from the journals. (See Fig. 2.) The outer ends of the arbors have flanges j , within which the ends of the yoke fit to prevent the arbors from turning.

K is a stay-bolt passing through one arm of the yoke and through the arbors and cutter, and screwing into the other arm of the yoke; or a nut may be screwed on this end.

The disks, bushings, and arbors may be used as a hub for common wheels, the axle passing through them, as the stay-bolt does in this case.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. The combination of the standard B and yoke E with the box F, secured to the yoke, and the bearing-blocks G, adjustably secured to the standard, for the purpose set forth.

2. The combination, with a yoke, E, and flanged box F, of the standard B, having orifices b , and the bearing-blocks G G, having pin g' , the said blocks being adjustable on the standard, as and for the purpose set forth.

3. The combination of standard B, adjustable bearing-blocks G, with flanges g , pin g' , box F, having grooves f f^2 , bolt f' , and the yoke E of a rotary colter, all made substantially as set forth.

4. In combination with the standard B, yoke E, and box F, the adjustable bearing-blocks G, having the teats g^3 secured thereto, as and for the purpose set forth.

5. The blocks G G, formed with teats $g^3 g^3$, and provided with the pin g' , in combination with the box F, having stop f^3 , and the standard B, having orifices b , as set forth.

5 6. The combination of the cutter D, disks H H, having hubs $h h$, concentrically-ribbed arbors J J, yoke E, bolt K, and the concentrically-grooved housings I I intermediate of the arbors and hubs, as set forth.

In testimony of which invention I hereunto set my hand, at St. Louis, Missouri, this 20th day of October, 1881.

OSCAR J. CORNOYER.

Witnesses:

SAML. KNIGHT,

GEO. H. KNIGHT.