

(No Model.)

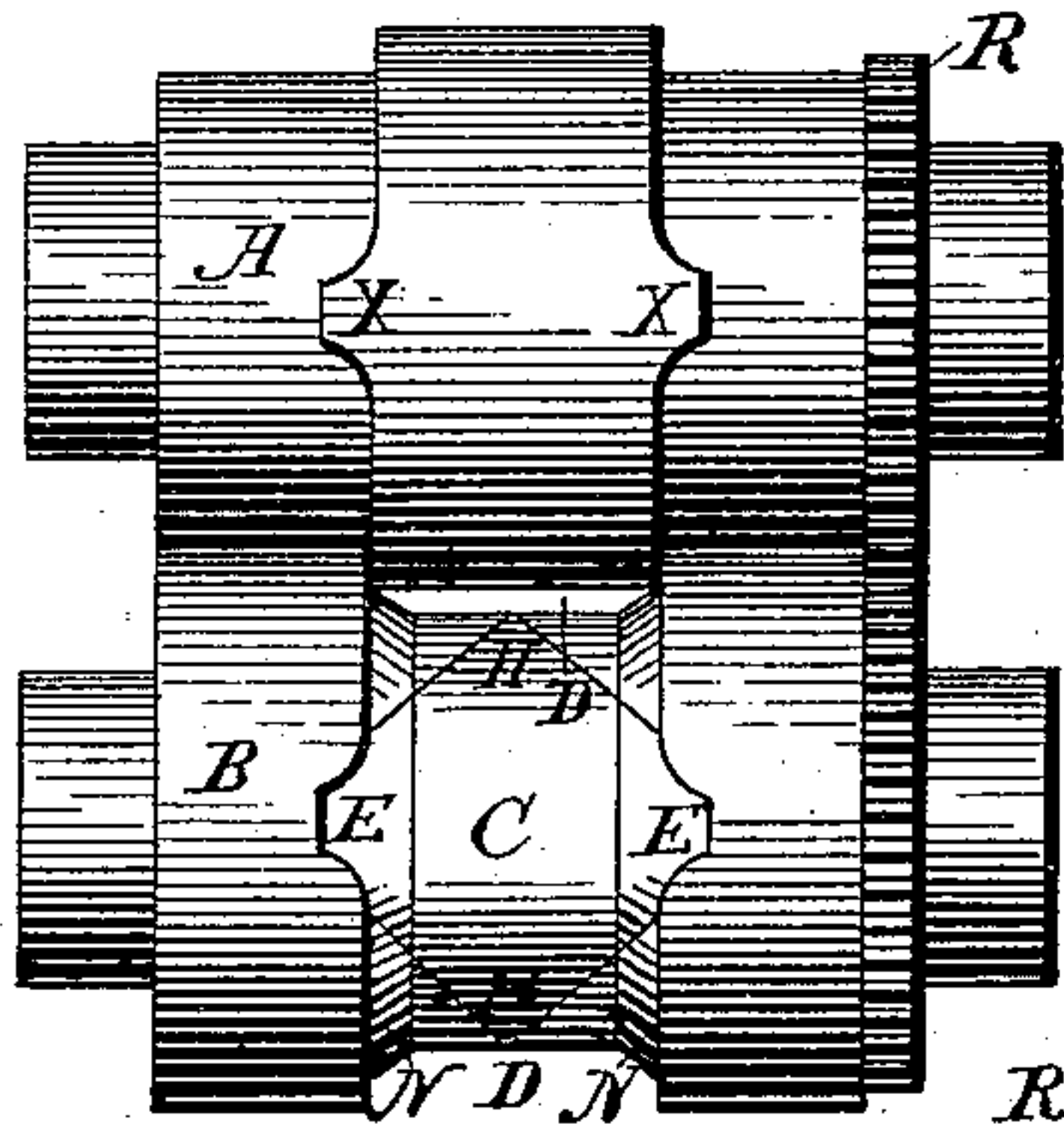
S. OAR.

ROLL FOR ROLLING PLOWSHARES.

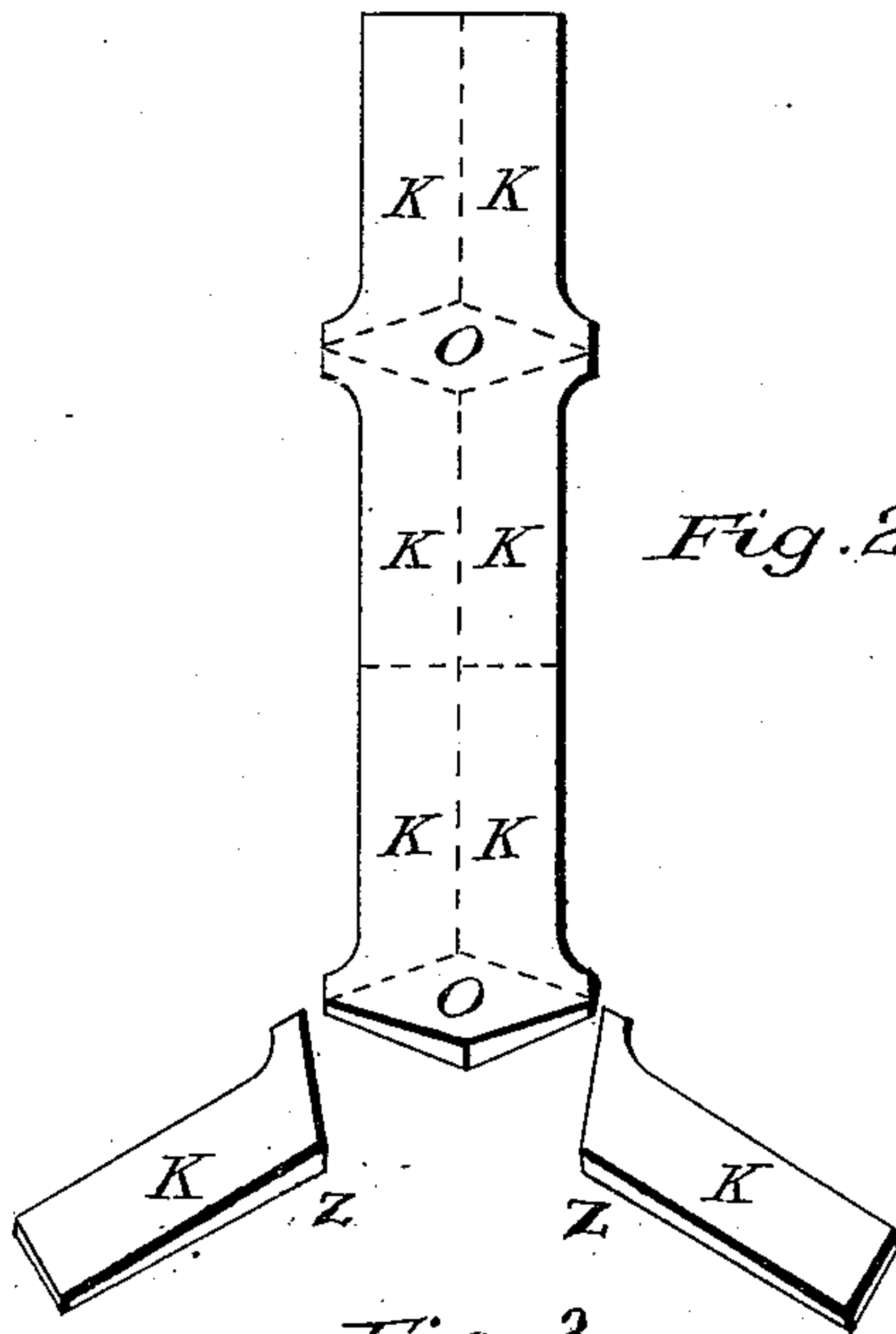
No. 330,611.

Patented Nov. 17, 1885.

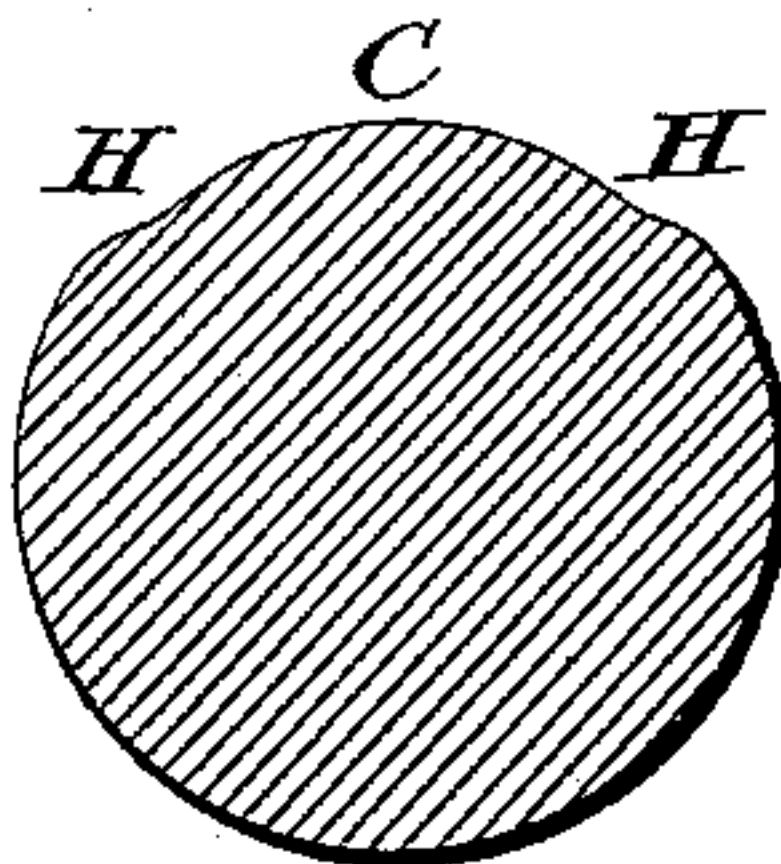
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses:  
W. S. Brown,  
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Inventor:  
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# UNITED STATES PATENT OFFICE.

SYLVESTER OAR, OF KANSAS, ILLINOIS.

## ROLL FOR ROLLING PLOWSHARES.

SPECIFICATION forming part of Letters Patent No. 330,611, dated November 17, 1885.

Application filed May 25, 1885. Serial No. 166,618. (No model.)

*To all whom it may concern:*

Be it known that I, SYLVESTER OAR, a citizen of the United States, residing in Kansas, in the county of Edgar and State of Illinois, have invented an Improvement in Rollers, of which the following is a specification.

My invention relates to an improvement in rollers for rolling out steel for plowshares; and the objects of my improvements are to have the rollers in such a form that the steel, after being rolled between them, will have the edges thin and will be thicker where the shins of the plowshares come, and will have projections on the edges of the steel for forming points to the plowshares. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is an elevation showing the form of the rollers. Fig. 2 is the form of the steel after passing through the rollers. Fig. 3 is an end view of the center of roller B.

Similar letters refer to similar parts throughout the several views.

The rollers A B roll together. In roller B is a groove, D, turned out, and is beveled at the edges N N for drawing the steel to an edge at both edges. C is a space deeper than the groove D, extending from H to H, and makes the steel thicker where it passes through part C than it will be where it passes through part D, thus making the plowshares thicker where the most wear comes.

E E are spaces extending from space C, for forming projections on the edges of the sides of the steel, for the purpose of forming points to the plowshares.

X X are projections on the edges of the large part of roller A, and are to mesh into spaces E E. Cog-wheels R R are fast to rollers A and B, and are both of the same size and are for the purpose of making projections X X mesh in spaces E E every time the rollers A and B revolve.

Fig. 2 shows the form of the steel after being rolled between rollers A and B with the exception of the dotted lines. The dotted lines indicate where the steel is to be cut for shares. The parts K are for the shares, and the parts O will be waste. Two shares are represented as being cut from the main bar, Z Z showing the thick parts of the plowshares that are formed by space C in roller B. The rollers will be of such a size as to make the steel the right length between the thick parts formed by space C, so that the steel will be cut up without much waste. There may be one or more of the spaces C on the same roller, owing to the size of the rollers and the length of the shares to be made.

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

In a machine for rolling plowshares, the combination, with roll B, grooved as shown, and having the space C and extended spaces E E, of the roll A, having projections X X, said rolls being geared together, as and for the purpose described.

SYLVESTER OAR.

Witnesses:

W. S. BROWN,  
H. C. MAYO.