

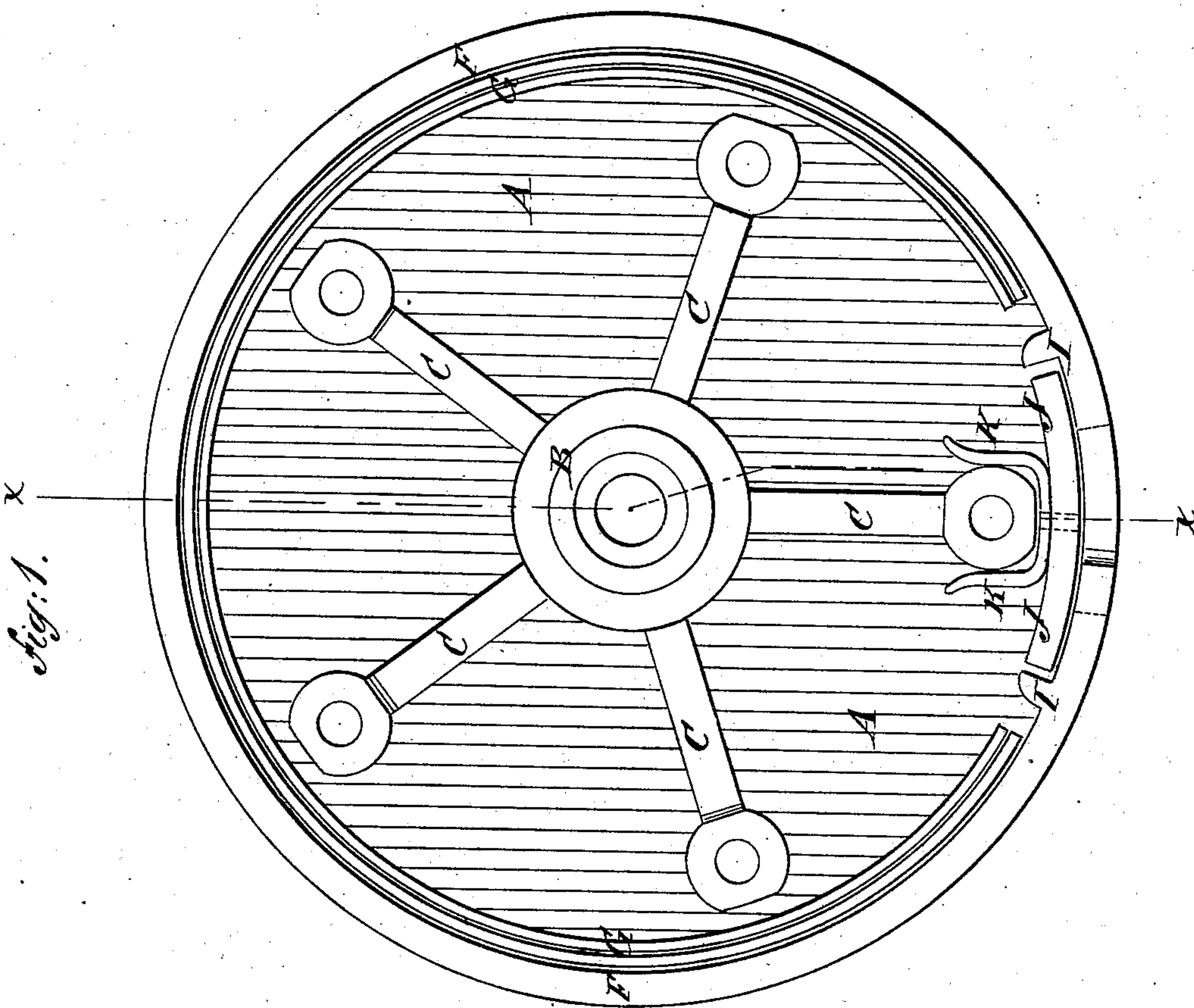
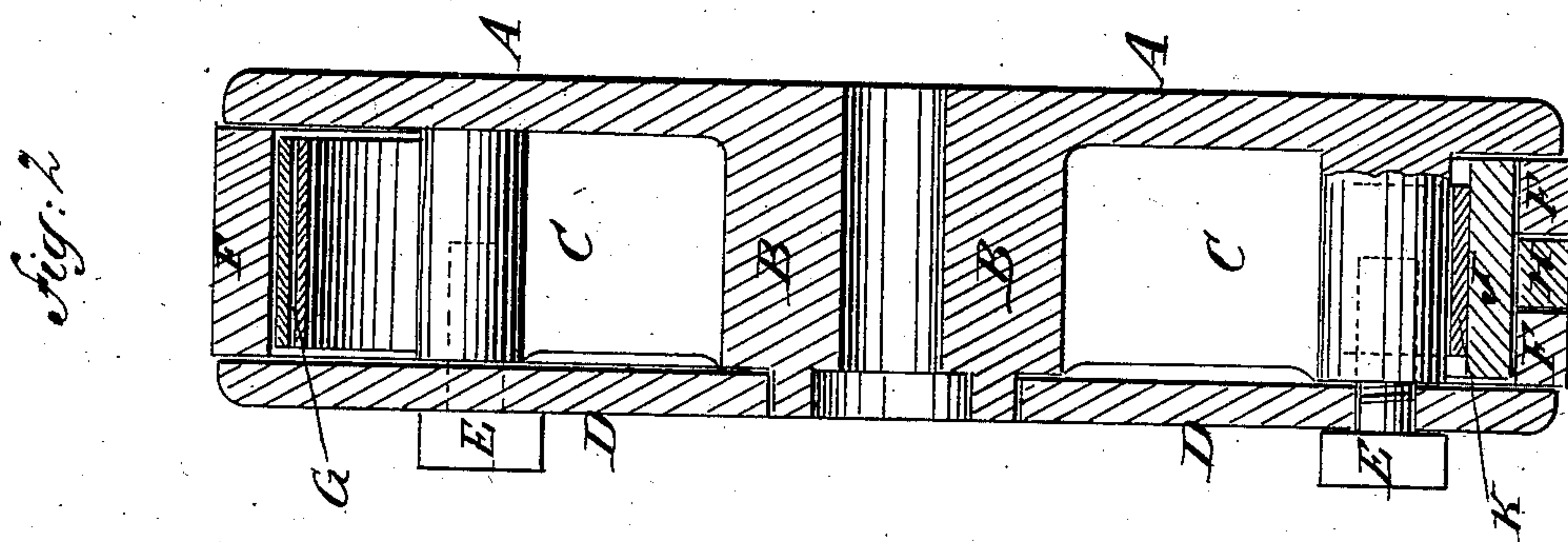
(Model.)

J. DYKEMAN & J. G. CORBIN.

PISTON.

No. 255,262.

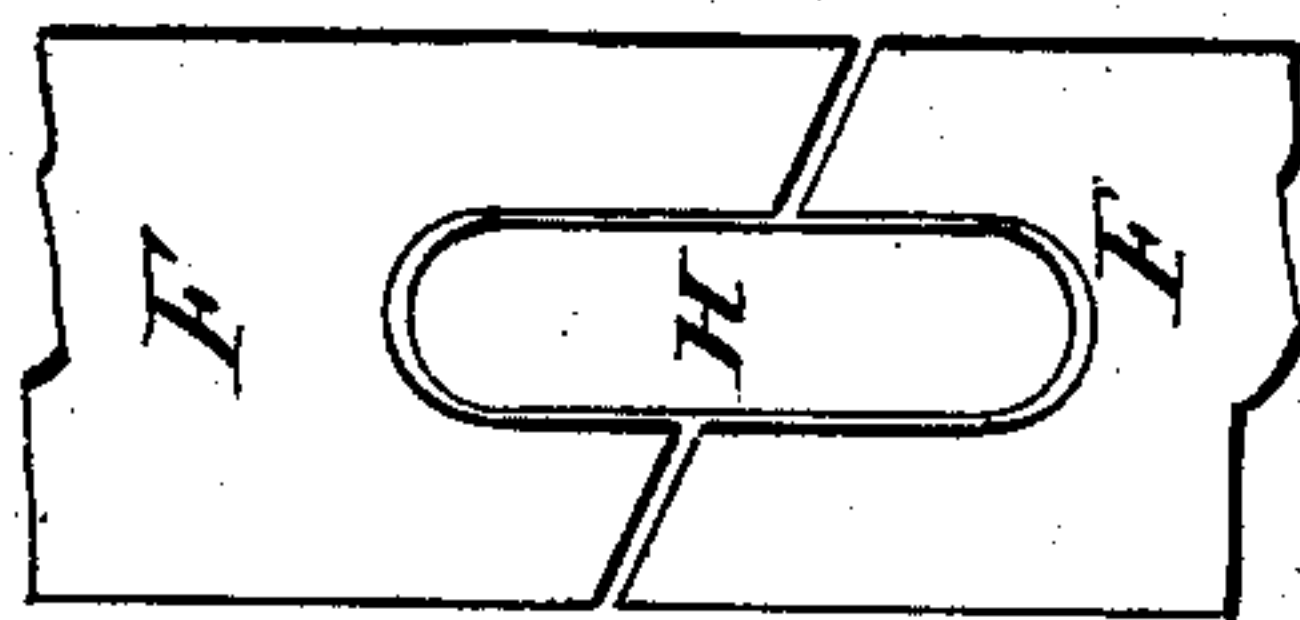
Patented Mar. 21, 1882.



**WITNESSES :**

Chas. Nick  
C. Spidgwick

Fig: 3.



**INVENTOR:**

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# UNITED STATES PATENT OFFICE.

JOHN DYKEMAN AND JASON G. CORBIN, OF RONDOUT, NEW YORK.

## PISTON.

SPECIFICATION forming part of Letters Patent No. 255,262, dated March 21, 1882.

Application filed January 6, 1882. (Model.)

*To all whom it may concern:*

Be it known that we, JOHN DYKEMAN and JASON G. CORBIN, both of Rondout, in the county of Ulster and State of New York, have  
5 invented a new and useful Improvement in Piston-Packings, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate  
10 corresponding parts in all the figures.

Figure 1 is a plan view of a piston to which our improvement has been applied, the face-plate being removed. Fig. 2 is a sectional  
15 elevation of the same, taken through the line *x x*, Fig. 1, the face-plate being shown in place. Fig. 3 is an elevation of a part of the packing-ring, showing the joint and its tongue.

The object of this invention is to promote  
20 durability in piston-packings.

The invention consists in the combination, with the open single-ring piston-packing having cross-ribs and the end of a web of the piston-head, of a curved plate and a U plate attached thereto, whereby key-plates to center  
25 or line the piston can be received and held, as will be hereinafter fully described.

A represents a piston-head, which is made with a hub, B, to receive the piston-rod, and  
30 with radial webs C to support the face-plate D, and having screw-holes in their enlarged outer ends to receive the screw-bolts E, that secure the said face-plate D in place.

F is the packing, which is made in the form  
35 of an open ring, and is held out so as to bear against the inner surface of the cylinder by one or more open ring-springs, G, placed at the inner side of the said packing-ring F. The

blowing of steam through the joint of the packing-ring F is prevented by a tongue, H, 40 inserted in slots in the ends of the said packing, as shown in Figs. 2 and 3.

Upon the inner side of the packing-ring F, upon the opposite sides of and at a little distance from its joint, are formed cross-ribs I, 45 between which is placed a short plate, J. The plate J is curved upon the arc of the packing-ring F, and to the middle part of its inner side is attached a U-shaped plate, K, to receive the enlarged end of one of the radial webs, C, as  
50 shown in Fig. 1. With this construction in the case of horizontal cylinders, when the packing wears the piston can be lined or centered by inserting thin key-plates between the U-plate K and the end of the web C. In the  
55 case of vertical cylinders the plates J K are not required.

We prefer to join the ends of the packing-ring on an angle, as shown in Fig. 3, to avoid wearing ridges or channels on the inner sur- 60 face of the cylinder.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

The combination, with the open single-ring 65 piston-packing F, having ribs I, and the end of a web, C, of the piston-head, of the curved plate J, and the U-shaped plate K, substantially as herein shown and described, whereby key-plates to center or line the piston can be  
70 received and held, as set forth.

JOHN DYKEMAN.  
JASON G. CORBIN.

Witnesses:

THOMAS HAMILTON,  
WILLIAM H. GUELFOIL.