

(No Model.)

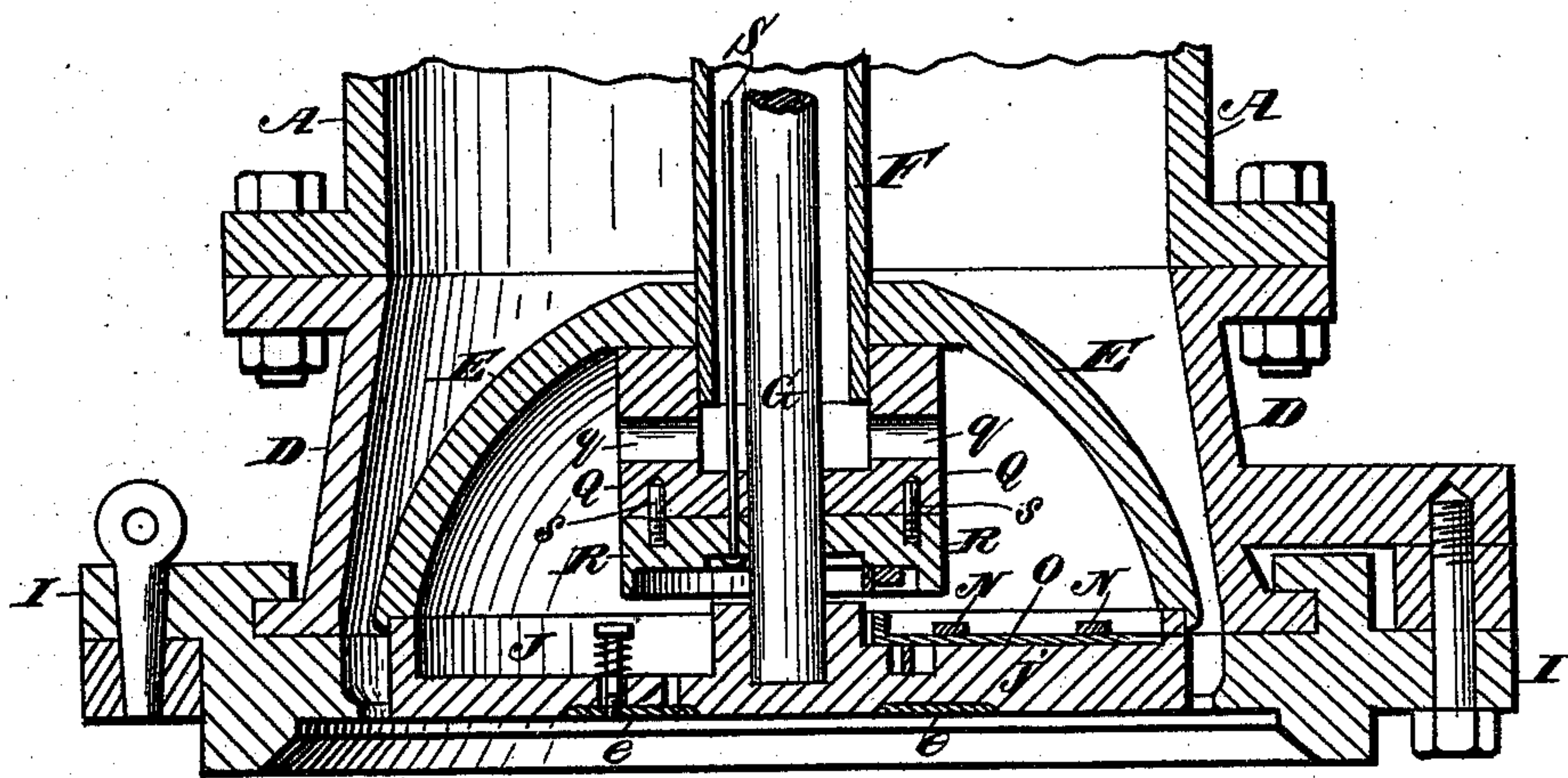
M. J. HOUSEL.

CROCK PRESS.

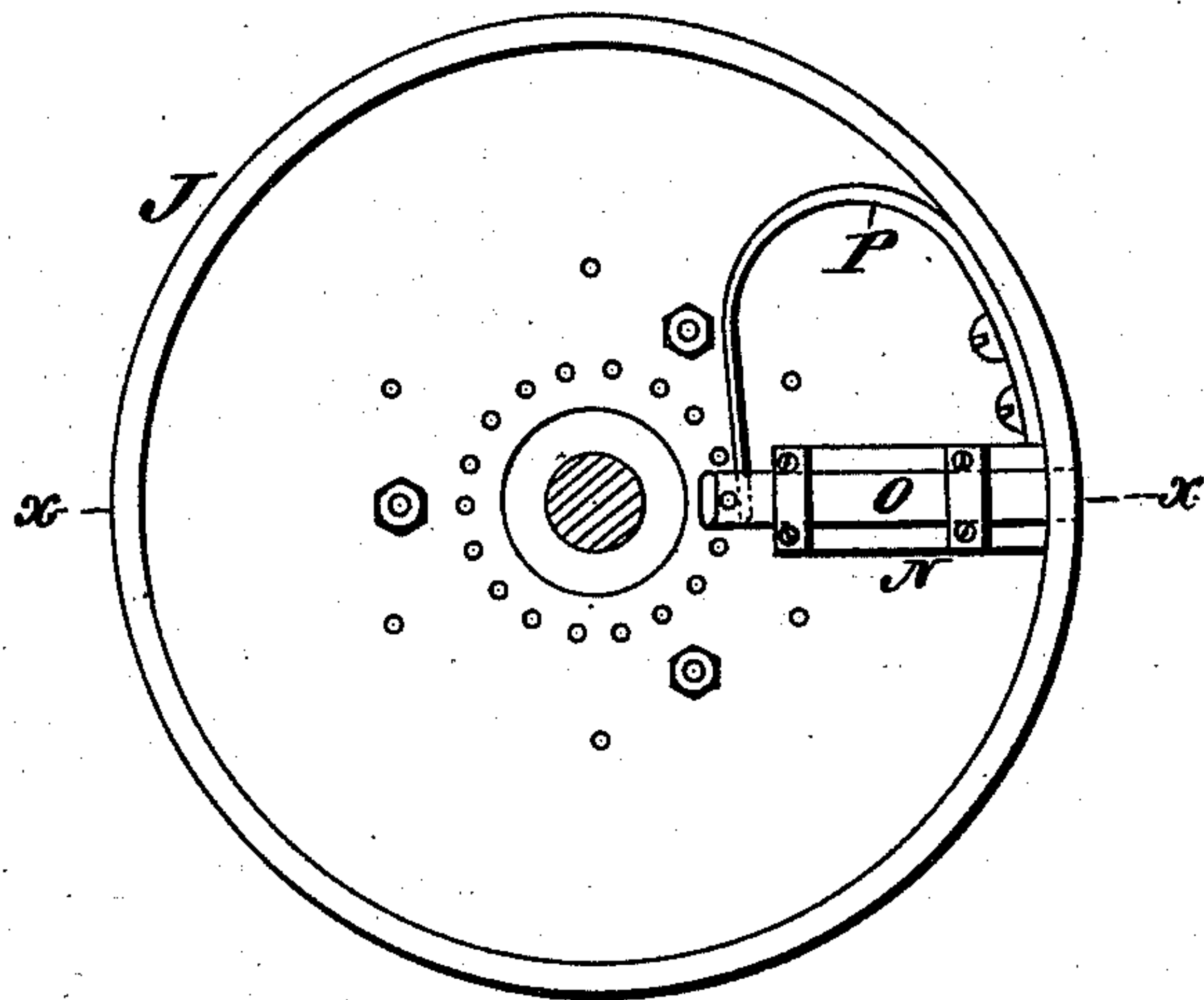
No. 412,504.

Patented Oct. 8, 1889.

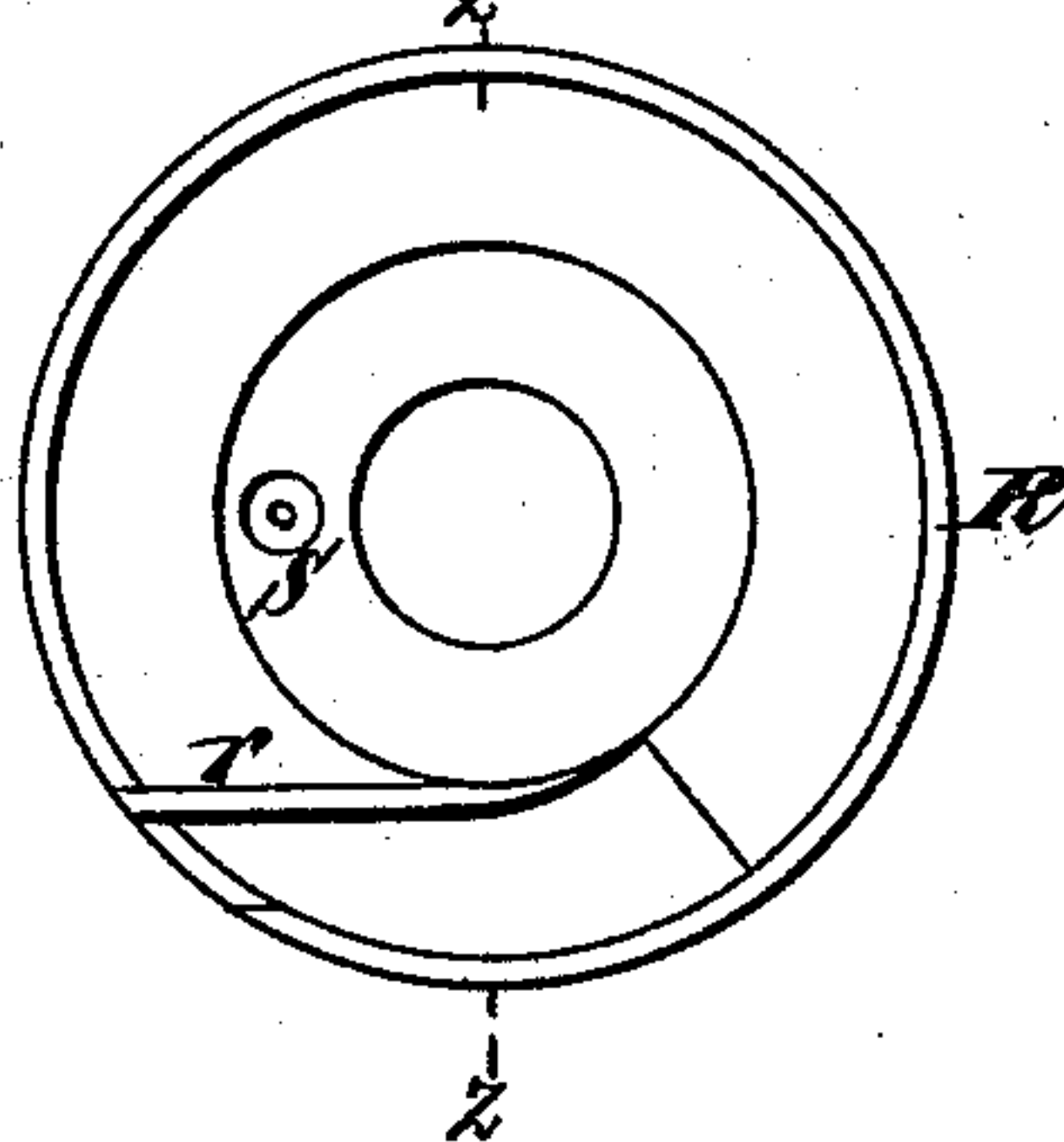
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



*Witnesses:*  
*Robert Everett,*  
*Dennis Sumby.*

*Inventor:*  
*Martin J. Housel.*  
*By C. P. Humphrey Atty.*



# UNITED STATES PATENT OFFICE.

MARTIN J. HOUSEL, OF AKRON, OHIO, ASSIGNOR TO THE AKRON STONE-WARE COMPANY, OF SAME PLACE.

## CROCK-PRESS.

SPECIFICATION forming part of Letters Patent No. 412,504, dated October 8, 1889.

Application filed October 21, 1887. Serial No. 253,031. (No model.)

*To all whom it may concern:*

Be it known that I, MARTIN J. HOUSEL, a citizen of the United States, residing at Akron, in the county of Summit and State of Ohio, have invented a certain new and useful Crock-Press, of which the following is a specification.

My invention is an improvement of the invention for which I was granted Letters Patent of the United States No. 197,853 December 4, 1877; and the object of my invention is to provide means for severing the completed crock from the body of clay from which it has been formed.

My invention consists in the devices illustrated in the accompanying drawings, as hereinafter described and claimed.

In the accompanying drawings, in which similar reference-letters indicate like parts, Figure 1 is a vertical central section of the lower part of a crock-press embodying my invention; Fig. 2, a plan of the revolving disk which forms the base of the mandrel, and Fig. 3 an inverted plan of the cam which forces the knife outward.

A is the clay-cylinder; D, the lower cylinder-head, upon the lower part of which is a ring I, severed in half and hinged, so as to be opened at will, and which forms the outside of the annular orifice of discharge.

E is the mandrel over which the clay is pressed, suspended by the hollow shaft F, within which is a smaller shaft G, suitably journaled, to the lower end of which is attached a disk J, which forms the base of the mandrel E, in which is an annular downward-opening valve e, to permit it readily to separate from the inside of the crock-bottom.

Thus far the several parts correspond with the crock-press for which a patent was granted to me as aforesaid, in view of which it has not been deemed necessary to show the upper part of the cylinder, its clay-forcing piston, the point of suspension of the shaft F, or the pulley which communicates motion to the shaft G and disk J.

Upon the upper face of the disk J, and at the line where it is desired to sever the crock from the clay above, are placed suitable radial ways N opposite a corresponding open-

ing in the rim of the disk J, in which is a sliding steel bar O, the outer end of which terminates at the periphery of the rim in a horizontal knife-edge, and its inner end is turned upward, forming a short tooth or lug o, which extends above the body of the bar O and ways N. This bar is arranged to slide outward until its outer end reaches the ring I and is constantly drawn inward by a spring P. Upon the lower end of the shaft F is a round nut Q, which retains the mandrel E thereon, provided with air-ducts q q, at the bottom of which is the cam R, of the same size, connected by dowel-pins s s, and arranged to be lowered and raised by a rod S.

The cam R consists of a wheel having in its lower face an annular channel, diagonally across which is a steel bar r, conforming at its inner end with the inner periphery of the channel and with its outer end passing out at one side of an opening in the outer rim of the cam.

In operation, the crock having been formed to the desired length and the flow of clay arrested, as described in the patent aforesaid, the cam R is pushed down by the rod S, when the bar r engages the lug o and forces the knife-edge of the bar O outward across the annular space through which the crock-body is formed, and as the disk J revolves the crock is accurately severed at the line of the top of the ring I, when the cam R is raised, thus permitting the knife O to be drawn back by the spring P.

I claim—

1. In a press of the kind designated, the combination, with the lower cylinder-head and the mandrel suspended centrally therein and having for its base a revolving disk receiving motion from a shaft disposed centrally within said cylinder and mandrel, of a knife mounted in said disk capable of radial reciprocating movement and mechanism within said mandrel for communicating movement to said knife, substantially as shown and described, and for the purpose specified.

2. In a press of the kind designated, the combination, with the revolving disk forming the base of the mandrel and a knife arranged

to slide radially in said disk and project beyond its periphery, of a cam to actuate said knife and devices for causing said cam to engage and actuate said knife, substantially  
5 as shown, and for the purpose specified.

3. In a crock-press of the kind specified, the combination, with the disk J, of the radially-sliding knife O, spring P, and movable cam

R, all constructed and arranged substantially as shown, and for the purpose specified. 10

In testimony that I claim the above I hereunto set my hand.

MARTIN J. HOUSEL.

In presence of—

C. P. HUMPHREY,

L. K. FORCE.