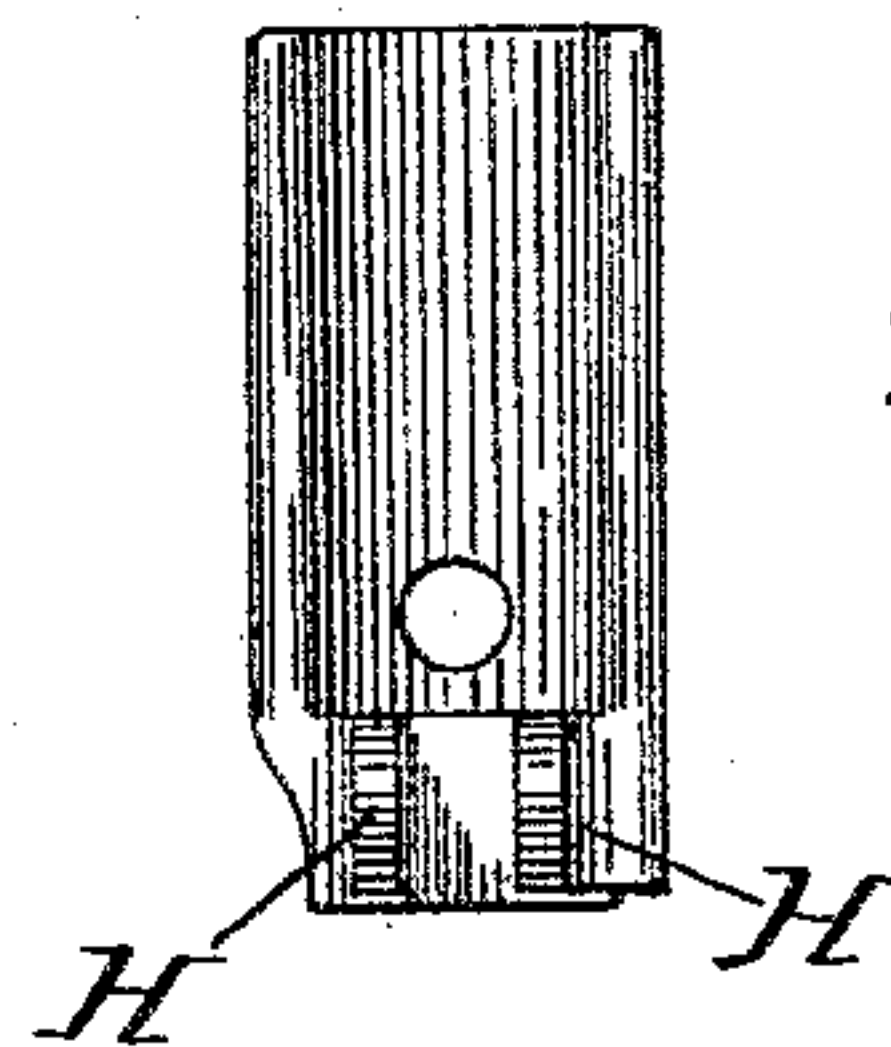
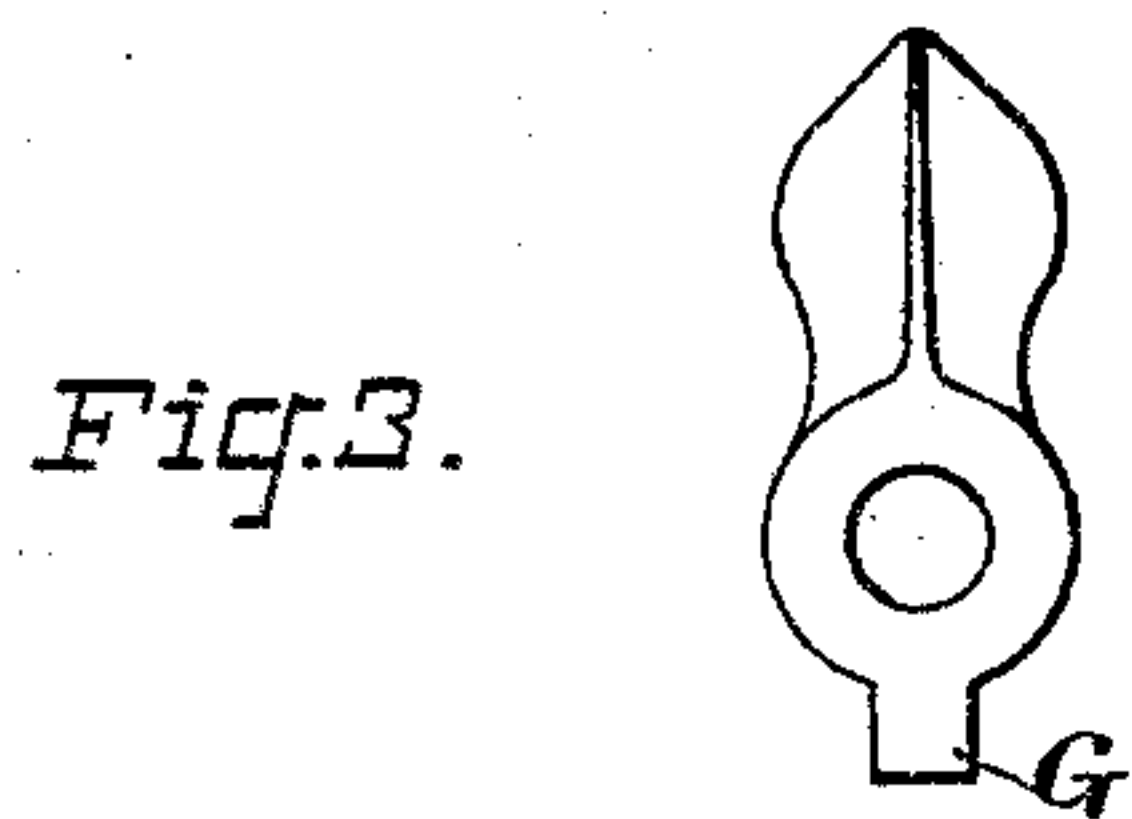
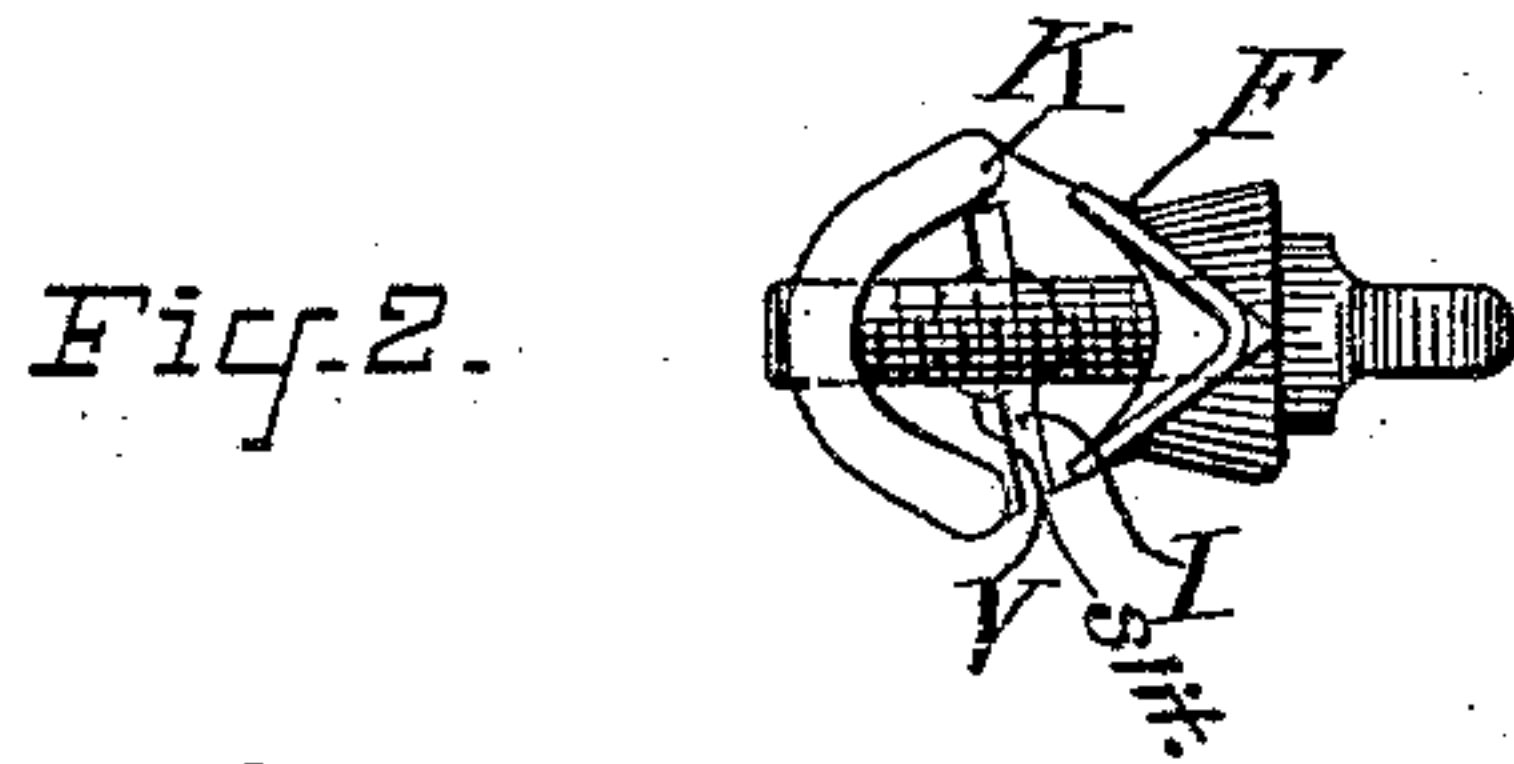
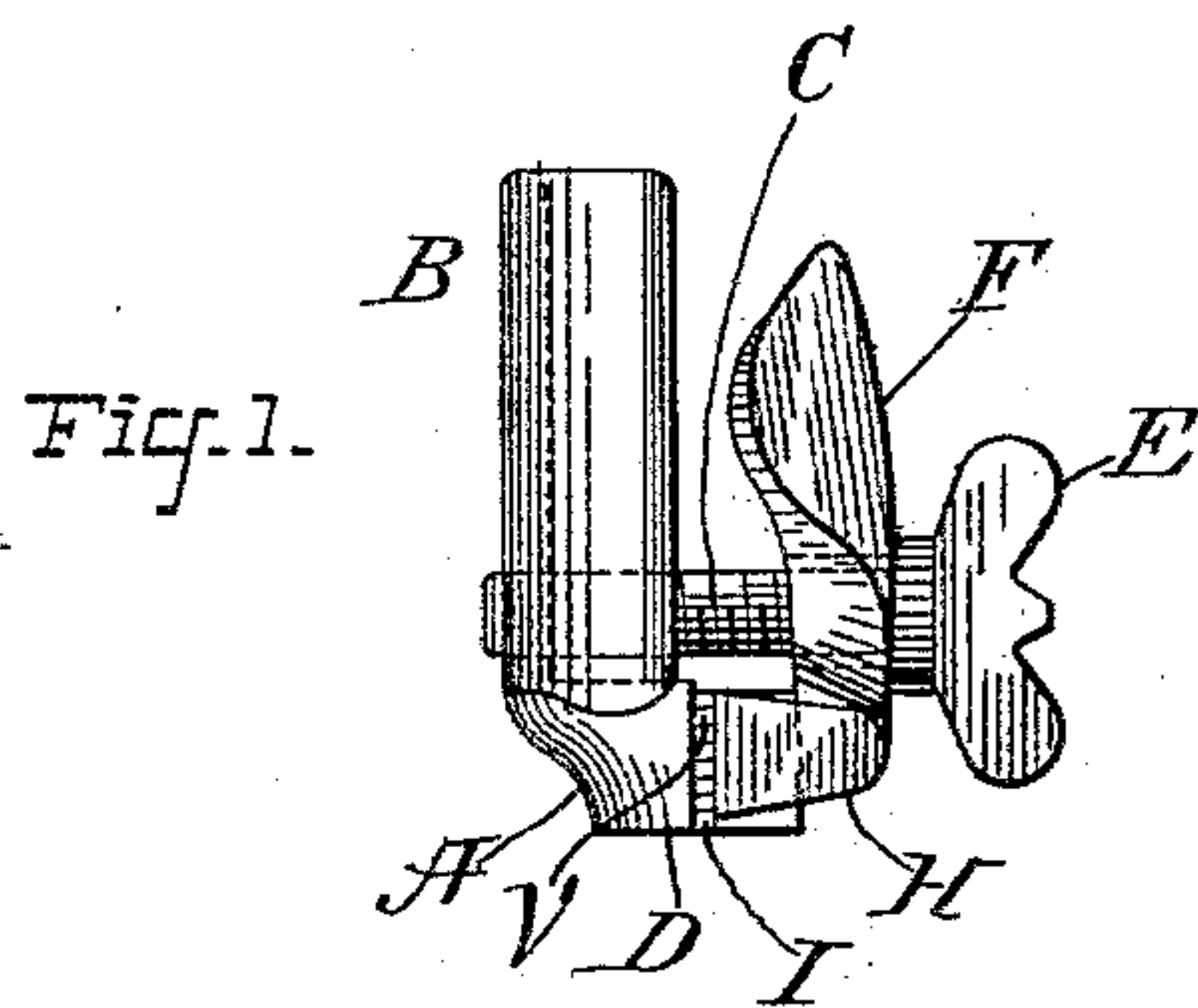


(No Model.)

A. P. SEYMOUR.  
CARBON CLAMP FOR ARC LIGHTS.

No. 411,936.

Patented Oct. 1, 1889.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

ALBERT P. SEYMOUR, OF SYRACUSE, NEW YORK.

## CARBON-CLAMP FOR ARC LIGHTS.

SPECIFICATION forming part of Letters Patent No. 411,936, dated October 1, 1889.

Application filed July 26, 1889. Serial No. 318,749. (No model.)

*To all whom it may concern:*

Be it known that I, ALBERT P. SEYMOUR, a citizen of the United States, and a resident of Syracuse, in the county of Onondaga and State of New York, have invented certain new and useful Carbon-Clamps for Electric-Arc Lamps, of which the following is a specification.

My invention relates to the construction of carbon-clamps which are attachable to the carbon rods of electric-arc lamps by means of a screw-thread on the end of the rod adapted to be engaged by the screw-thread in a socket of the clamp-body.

The object of my invention is to provide a clamp which shall be adapted for firm attachment to rods having screw-threaded ends of different sizes.

In present constructions slight variations in the size of the screw-threaded hole in the clamp or in the size of the carbon rod frequently exist, the consequence of which is either that the clamp cannot be attached to the rod or is attached loosely, so as to be liable to accidental detachment.

My invention, which overcomes this defect, consists, essentially, in slitting the clamp-body in a line transverse to the line of pressure of the devices which clamp the carbon, and in applying such clamping devices so that they shall tend to draw the sides of the clamp-body together, as will be hereinafter more fully described.

In the accompanying drawings, Figure 1 is a side elevation of a carbon-clamp constructed in accordance with my invention. Fig. 2 is a plan of the device. Fig. 3 is an elevation of the removable clamp-block. Fig. 4 is an elevation of the clamp-body on which such clamp-block bears.

A indicates the body of the clamp formed with an extension B, that bears against one side of the carbon rod which is to be held.

At V the clamp-body is provided with a screw-threaded socket adapted to engage with the screw-thread on the end of the carbon-carrier for an electric-arc lamp in the usual manner.

C indicates a clamp screw or rod, of any

desired character, which at one end engages with the body of the clamp and at the other is provided with a thumb-piece E. The rod C passes through a loose clamp-block F, which may be tightened against the side of the carbon rod by means of the clamp rod or screw C. The heel G of the loose clamp-block rests against the side of the clamp-body or socket portion of the same between two ears H, formed thereon, as shown.

At I is indicated a transverse slit formed in the side of the socket and extending through the wall thereof into the screw-threaded portion of the same. This slit is formed, as shown, on a line transverse to the line of pressure of the clamping devices, so that when the latter are operated for the purpose of fastening the carbon rod the two sides of the clamp-body will be drawn together and will grasp the end of the carbon-carrier. By this means accidental detachment of the clamp from the carbon-carrier is avoided, and such clamp may be applied without difficulty to rods whose ends are of varying size. It will be understood that the socket or body is made slightly springy at the part K by extending the slit or cut partially into the wall of the socket at that point, as shown in the plan view, or by other suitable construction.

My invention obviously is not limited to any particular form of devices for clamping the carbon rod, it only being necessary that such devices should be applied so that the pressure exerted by them on the two sides of the clamp-body will be in a line transverse to the direction of the slit. The spring of the clamp-body is in this construction useful also in preventing loosening of the clamping-screw or other clamping device.

What I claim as my invention is—

1. A detachable clamp for carbon-carriers, having its body slit transversely at the part where it connects with the carbon-carrier, and provided with carbon-clamping devices which tend to draw the two sides of the clamp-body together against the carrier.

2. In a detachable clamp for carbon-car-



riers, the combination, with the clamp-body  
having a screw-threaded socket and trans-  
verse slit through the side of the socket, of a  
clamping-rod and clamp-block bearing on the  
5 clamp-body in a direction transverse to the  
line of the slit in the body.

Signed at Syracuse, in the county of Onon-

daga and State of New York, this 24th day of  
July, A. D. 1889.

ALBERT P. SEYMOUR.

Witnesses:

JOHN C. KEEFFE,  
LOUIS S. TOREY.