

No. 776,927.

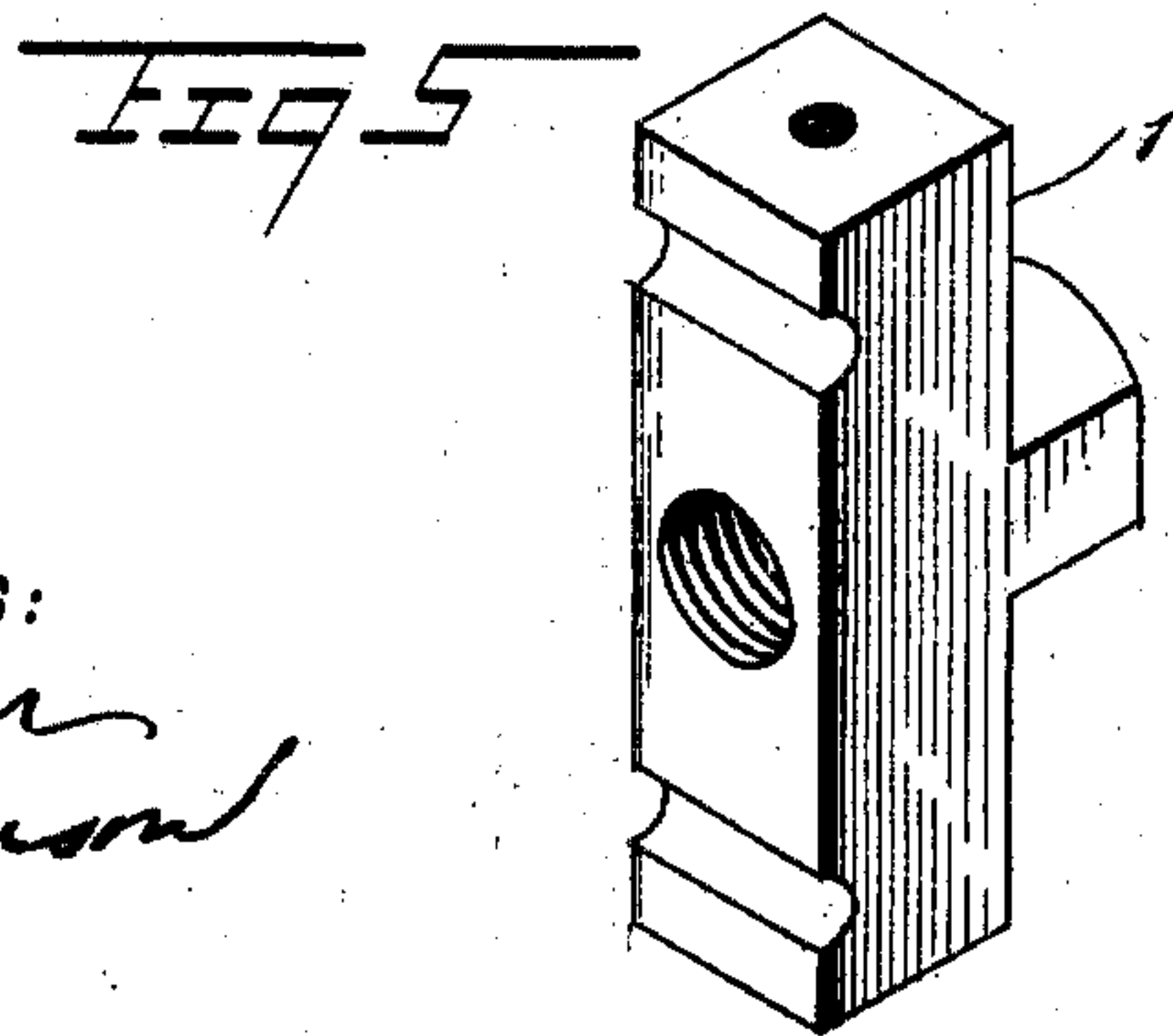
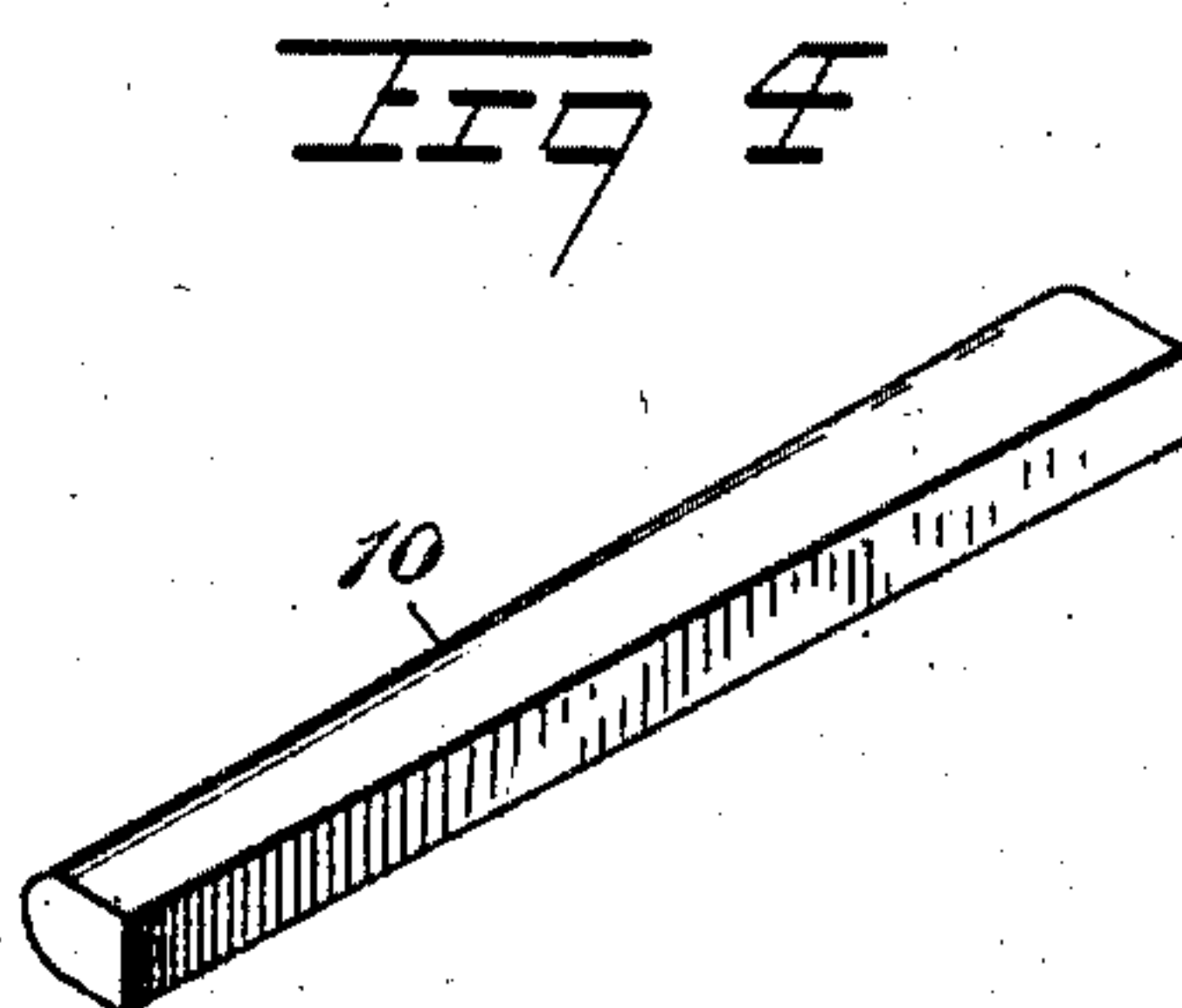
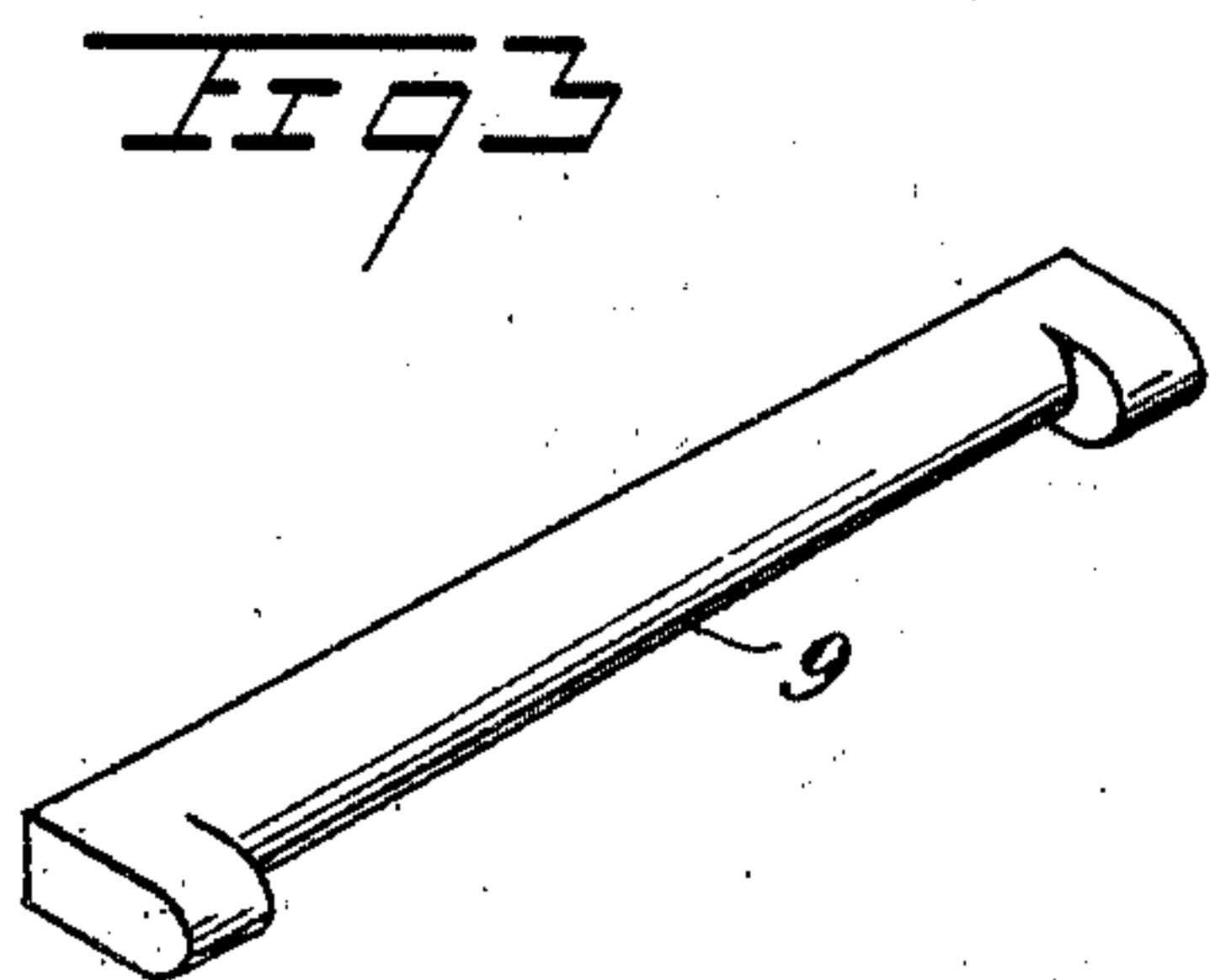
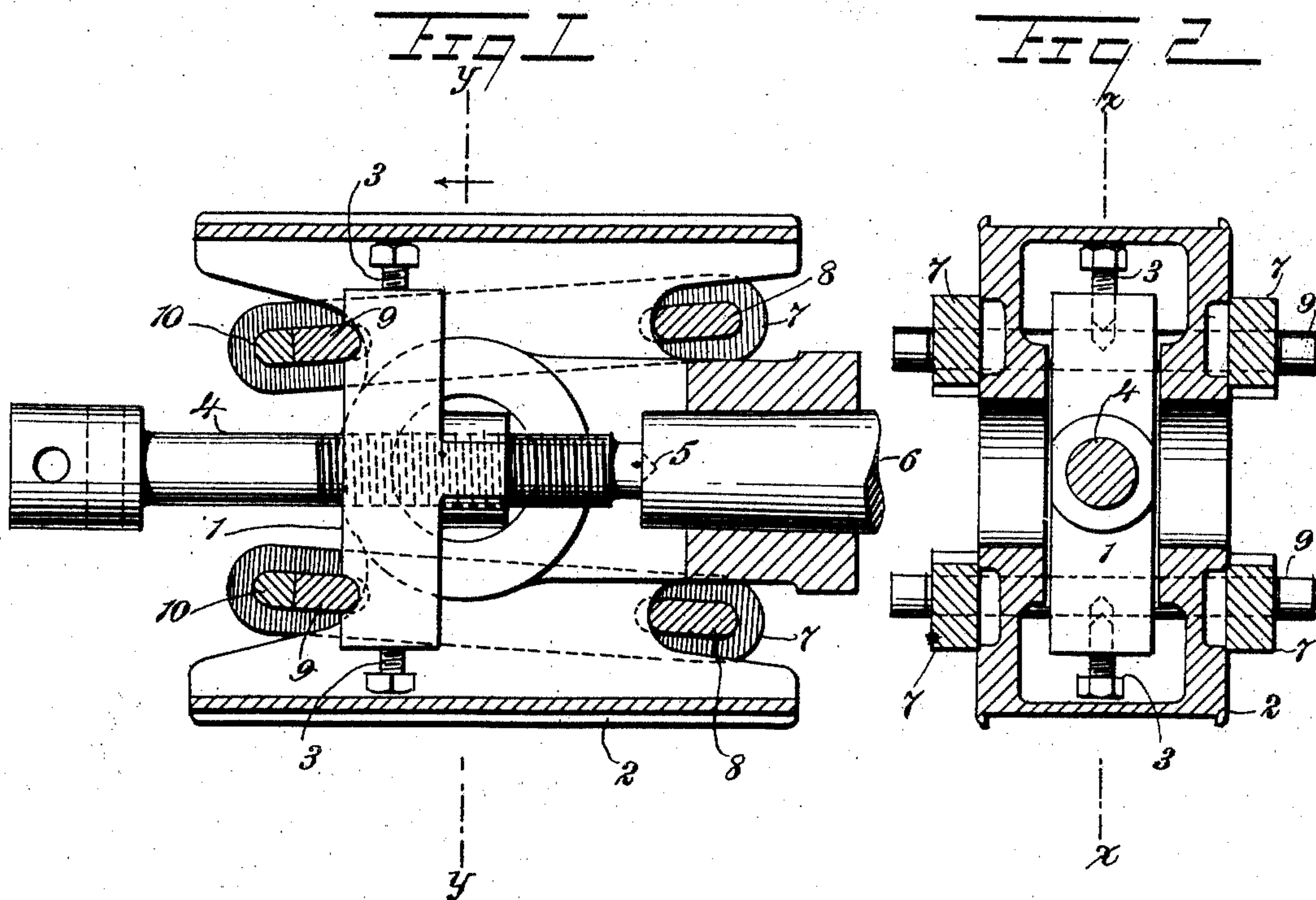
PATENTED DEC. 6, 1904.

C. J. McCARTHY.

DEVICE FOR SEPARATING PISTON RODS FROM CROSS HEADS.

APPLICATION FILED FEB. 4, 1902. RENEWED SEPT. 21, 1904.

NO MODEL.



WITNESSES:  
*W. Walker*  
*C. R. Ferguson*

INVENTOR  
*Charles J. McCarthy*  
BY *M. M. [Signature]*  
ATTORNEYS



# UNITED STATES PATENT OFFICE.

CHARLES JOSEPH McCARTHY, OF MONCTON, CANADA, ASSIGNOR OF TWO-THIRDS TO A. GEORGE BLAIR, JR., OF ST. JOHN, CANADA.

## DEVICE FOR SEPARATING PISTON-RODS FROM CROSS-HEADS.

SPECIFICATION forming part of Letters Patent No. 776,927, dated December 6, 1904.

Application filed February 4, 1902. Renewed September 21, 1904. Serial No. 225,345. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES JOSEPH McCARTHY, a citizen of the Dominion of Canada, and a resident of Moncton, in the Province of New Brunswick and Dominion of Canada, have invented a new and Improved Device for Separating Piston-Rods from Cross-Heads, of which the following is a full, clear, and exact description.

This invention relates to improvements in devices for removing or separating piston-rods from cross-heads; and the object is to provide a device of this character of simple construction, strong and durable, and that may be quickly attached to a cross-head and as readily detached therefrom.

I will describe a device for separating piston-rods from cross-heads embodying my invention and then point out the novel features in the appended claims.

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

Figure 1 is a section on the line *xx* of Fig. 2 of a separating device embodying my invention. Fig. 2 is a section on the line *yy* of Fig. 1. Fig. 3 is a perspective view of one of the gibs employed. Fig. 4 is a perspective view of one of the wedge-keys employed, and Fig. 5 is a perspective view of the jack head or nut.

Referring to the drawings, 1 designates the jack head or nut designed to be arranged within the cross-head 2, as shown. This jack-head is made in the form of a bar, and it may be centered in the cross-head by means of screws 3 at its ends. Operating in the jack-head or nut is the jack-screw 4, the head of which is provided with openings into which a tool may be inserted for the purpose of turning the screw. The end of the screw is provided with a centering-point 5 for engag-

ing in a depression in the end of the piston-rod 6. The device is held in a cross-head by means of tie-plates 7, engaging against the outer sides of the cross-head above and below the jack-screw. At the forward ends these plates 7 are provided with openings to receive the gibs 8, and at the opposite end they are provided with openings to receive the gibs 9 and the wedges or keys 10. The inner edges of the keys 9 are rounded, and the rear side of the jack-head 1 is provided with notches to receive the same.

In operation the jack is placed in the cross-head and properly centered by means of the screws 3, and then the tie-plates are placed in position and keyed tightly up, which will form a very rigid construction not liable to be displaced by jarring or otherwise.

It is obvious that tie-plates may be made of different lengths to adapt the device to the work in hand.

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

1. In a device of the character described, a jack-head, a jack-screw for operating therein, tie-plates for engaging opposite sides of a cross-head, gibs for the tie-plates, and centering devices for the jack-heads, substantially as specified.

2. In a device of the character described, a jack-head, tie-plates for engaging opposite sides of a cross-head, gibs removably engaged in said tie-plates, wedges or keys for the gibs at one end, and a jack-screw for operating in the jack-head, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES JOSEPH McCARTHY.

Witnesses:

JOHN B. MAGEE,  
HUGH H. HAMILTON.