No. 761,707. PATENTED JUNE 7, 1904.

J. J. PEYMAN.

ADJUSTABLE SQUARE.

APPLICATION FILED SEPT. 19, 1903.

NO MODEL.

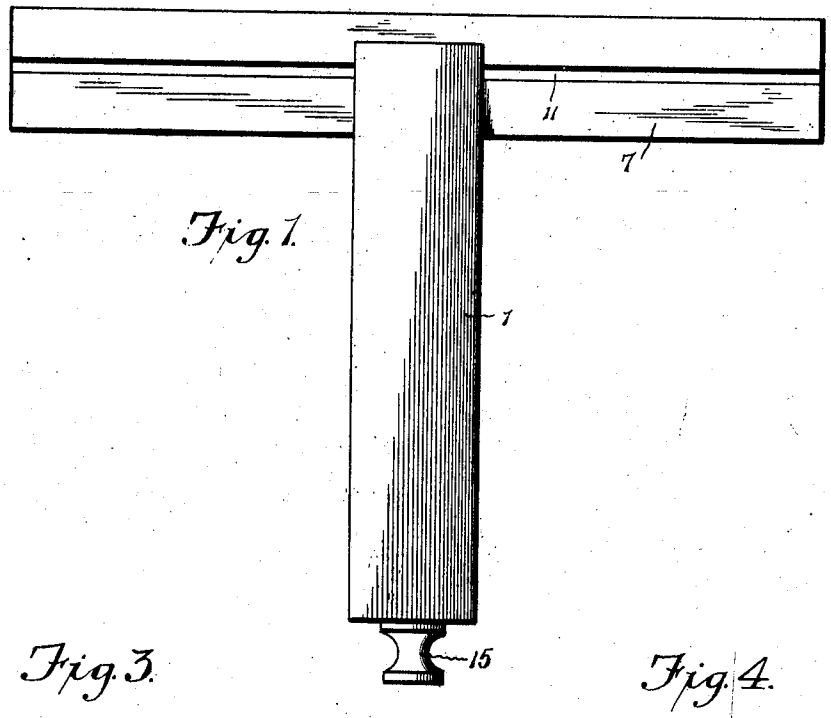


Fig. 1.

Fig. 3.

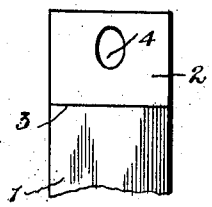


Fig. 5.

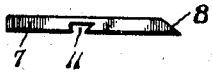


Fig. 4.

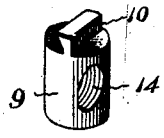
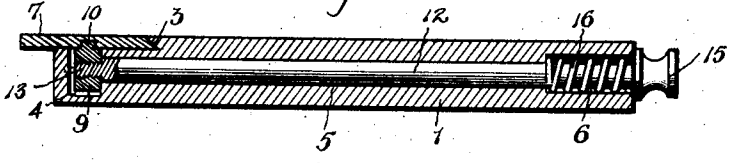


Fig. 2.



Witnesses

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No. 761,707. Patented June 7, 1904.

UNITED STATES PATENT OFFICE.

JOHN J. PEYMAN, OF SPRINGFIELD, MASSACHUSETTS.

ADJUSTABLE SQUARE.

SPECIFICATION forming part of Letters Patent No. 761,707, dated June 7, 1904.

Application filed September 19, 1903. Serial No. 173,857. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. PEYMAN, a citizen of the United States of America, and a resident of Springfield, in the county of Hampden and State of Massachusetts, have invented certain new and useful Improvements in Adjustable Squares, of which the following is a full, clear, and exact description.

This invention relates to squares, and has for its object to provide certain new and useful improvements in this class of devices whereby the head member may be conveniently adjusted upon the stock member. It is furthermore designed to have the head member adjustable without the disconnection of fastening devices and at the same time to insure a sufficiently rigid connection between the members as to obviate accidental displacement thereof.

Another object is to have corresponding faces of the members flush in order that the implement may be placed flat against the work.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims.

In the drawings, Figure 1 is a plan view of a square embodying the features of the present invention. Fig. 2 is a longitudinal sectional view thereof. Fig. 3 is a plan view of one end of the stock, the head or blade being removed. Fig. 4 is a detail perspective view of the adjustable connecting member between the stock and the head or blade. Fig. 5 is a detail end view of the head or blade.

Like characters of reference designate corresponding parts in each and every figure of the drawings.

While the present device is especially designed for machinists' use and is therefore preferably formed of metal, it will of course be understood that it may be formed of wood or other material without departing from the spirit of the invention, and changes in the form, proportion, size, and minor details may be resorted to within the scope of the claims.

In carrying out this invention the stock member 1 is preferably of oblong shape and is slightly reduced at one end to form a seat or recess 2, extending extirely across the member, the transverse shoulder 3, formed by this seat, being undercut, so as to overhang the seat. At about the center of this seat is a socket 4, which is elongated in the longitudinal length of the member and is preferably of elliptical shape. Throughout the longitudinal center of the member is a cylindrical bore 5, which communicates with the socket 4 and has its opposite end enlarged, as indicated at 6, said enlarged portion opening outwardly through the adjacent end of the member.

Disposed transversely across the stock and fitted in the seat 2 is the blade or head member 7, the outer edge of which projects in advance of the adjacent end of the stock, while its inner longitudinal edge 8 is beveled to take under and snugly fit the undercut shoulder 3 of the stock. It will here be noted that the blade 7 is flush with the stock, whereby these members may lie flat against the work when applied thereto.

Connection is made between the two members through the medium of a connecting member 9, in the present instance in the form of a substantially cylindrical block fitted in the socket 4 of the stock and capable of a slidable movement therein in the direction of the length of the socket. Across the top of the block or connecting member 9 is a dovetailed or undercut rib or projection 10, which is received within a correspondingly-shaped groove or guideway 11, formed in the inner face of the blade or head and extending longitudinally throughout the entire length thereof, said groove being located substantially midway between the opposite longitudinal edges of the blade and also having opposite open ends. It will be understood that the blade 7 has a working fit upon the rib or projection 10 and against the shoulder 3 in order that the blade may be slid endwise across the stock.

To hold the blade against displacement from the stock, a locking-rod 12, preferably cylindrical in shape, is rotatably fitted in the bore 5 of the stock and is provided at its inner end

with a reduced screw-threaded terminal 13, adapted to take into the screw-threaded opening 14 in the member 9. The outer end of the locking-rod projects beyond the stock and is provided with a finger-piece 15 for convenience in rotating the rod to engage and disengage the screw-threaded end thereof with respect to the member 9. Within the enlarged portion 6 of the bore is a helical spring 16, embracing the rod and bearing in opposite directions against the back of the enlarged portion 6 and the finger-piece 15, thereby to exert an outward pressure upon the rod and, through the medium of the member 9, draw the blade 7 into snug engagement with the undercut shoulder 3, and thereby hold the blade member against displacement. When the finger-piece 15 is screwed up tight against the stock, the blade is drawn so snugly into engagement with the shoulder 3 as to prevent endwise movement or adjustment of the blade; but by turning the locking-rod so as to work the finger-piece away from the stock there is sufficient endwise play to the locking-bar by reason of the spring to permit of a slight lateral yielding of the blade, and thereby permit of the latter being moved in an endwise direction across the stock, while at the same time the tension of the spring is sufficient to prevent accidental endwise movement of the blade.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

1. An implement of the character described, comprising a stock having a transverse shoulder, a socket in front of the shoulder and a longitudinal bore intersecting the socket, the outer end of the bore being enlarged, a blade lying across the socket in coöperative relation with the shoulder, a member within the socket and movable toward and away from the shoulder, a slidable connection between the blade and said movable member, an endwise-adjustable rod working in the bore with one end connected to the movable member and its opposite end provided with a finger-piece, and a helical spring embracing the rod within the enlarged portion of the bore and bearing in opposite directions against the back of the bore and the finger-piece.

2. An implement of the character described, comprising a stock having a shoulder and a socket in front of the shoulder, a blade lying across the socket and in coöperative relation with the shoulder, a member situated within the socket and movable toward and away from the shoulder, a connection between said member and the blade, a rotatable adjusting-rod piercing the stock with one end in screw-threaded engagement with the movable member, and a spring bearing in opposite directions against the rod and the stock to yieldably hold the blade in engagement with the shoulder.

3. An implement of the character described, comprising a stock having a transverse undercut shoulder, a socket in front of the shoulder and a longitudinal bore intersecting the socket with one end enlarged and opening through one end of the stock, an endwise-adjustable blade having a beveled longitudinal edge underlying the shoulder with its outer face flush with the adjacent face of the stock and provided in its under face with a longitudinal dovetailed groove, a member movable within the socket toward and away from the shoulder and provided with a dovetailed projection having a working fit within the groove of the blade, an endwise-movable rotatable rod within the bore of the stock with one end in screw-threaded engagement with the movable member and its opposite end provided with a finger-piece located exteriorly of the stock, and a helical spring within the enlarged portion of the bore with one end bearing against the back of the bore and its opposite end bearing against the finger-piece.

Signed by me at Springfield, Massachusetts, in presence of two subscribing witnesses.

JOHN J. PEYMAN.

Witnesses:
WM. S. BELLOWS,
A. V. LEAHY.