

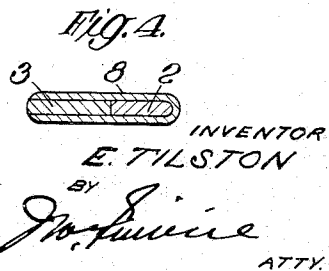
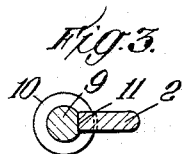
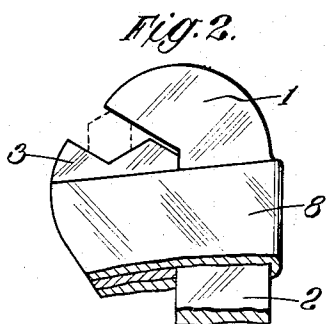
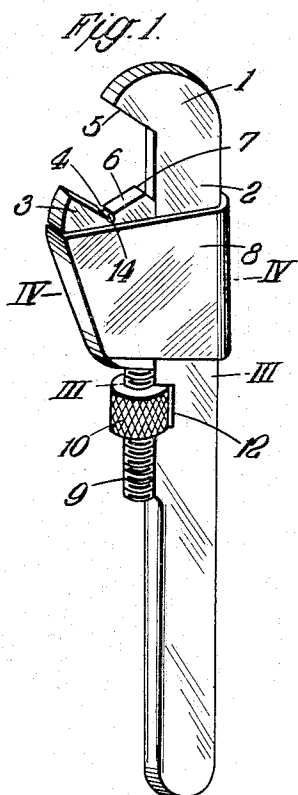
July 17, 1934.

E. TILSTON

1,966,773

WRENCH

Filed May 24, 1933



UNITED STATES PATENT OFFICE

1,966,773

WRENCH

Edward Tilston, London, England

Application May 24, 1933, Serial No. 672,675
In Great Britain May 24, 1932

1 Claim. (Cl. 81—166)

According to the invention a screw adjustable wrench is provided with an outer jaw having a single face arranged at an angle of 120° to the face on which the inner jaw slides and with an inner jaw with a V shaped recess and having its edge which is adjacent to the stem of the outer jaw spaced therefrom so that it can approach closely to the face of the outer jaw when the wrench is closed whereby the range of adjustment as regards small nuts is increased.

In the accompanying drawing

Figure 1 is a perspective view of a screw adjustable wrench according to the invention, with jaws expanded to take large nuts.

Figure 2 is a side view of the jaws when adjusted to take the smallest size of nut.

Figure 3 is a cross section on line III—III of Figure 1, and Figure 4 is a cross section on line IV—IV of Figure 1.

In Figure 1 the outer jaw 1 is rigid with the stem 2, on which the inner jaw 3 slides. The inner jaw 3 has a V-shaped recess 4, the faces of which may be of any desired length.

The single face 5 of the outer jaw is arranged at an angle of 120° to the slide, and is of about the same length as the side of the largest nut the wrench is intended to grip, whereas the inner face 6 of the recess 4 is shorter, and the edge 7 of the face 6 adjacent to the stem 2 is spaced therefrom, so that when the wrench is closed, the edge 7 can approach to the face 5 and a comparatively small nut can be gripped as indicated in Figure 3, the range of sizes as regards small nuts to which the wrench can be adjusted being therefore considerably increased.

The jaw 3 has a strap 8 embracing the stem 2, and a screw 9 engaging with an adjusting nut 10. The strap 8 may be rivetted or electrically welded to the jaw 3.

The screw 9 has a flat 11 sliding against the side of the stem 2 as indicated in Figure 3, and the nut 10 fits in a recess 12 in the stem and has a milled or knurled outer surface to facilitate turning.

The stem 2 is formed with a handle 13.

The wrench can be adjusted to take nuts ranging in size from that indicated in Figure 1 to that indicated in Figure 2.

The centre of the V in jaw 3 has a channel 14 so as to allow close contact of the V on both faces of a nut which may have been damaged on the corners.

I claim:—

A screw adjustable wrench having a fixed jaw formed with a gripping face arranged at an angle of 120° to the adjacent edge of the jaw, a movable jaw having an engaging face formed as a V-shaped recess, that portion of the face of the sliding jaw next the fixed jaw being at an angle to the adjacent surface of the V-shaped jaw to permit the movable jaw to operate closely to the gripping surface of the fixed jaw, a threaded stem depending from and in alignment with the movable jaw, said stem having a flattened portion to bear against one side edge of the fixed jaw, and a nut threaded on the stem and movably seated in a recess in the fixed jaw for operating the stem and thereby the movable jaw longitudinally relative to the fixed jaw.

EDWARD TILSTON.

35
40
45
50
55

60
65
70
75
80
85
90
95
100
105
110