

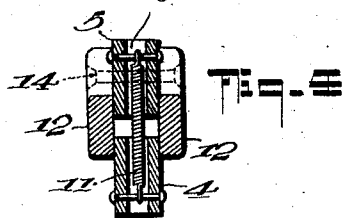
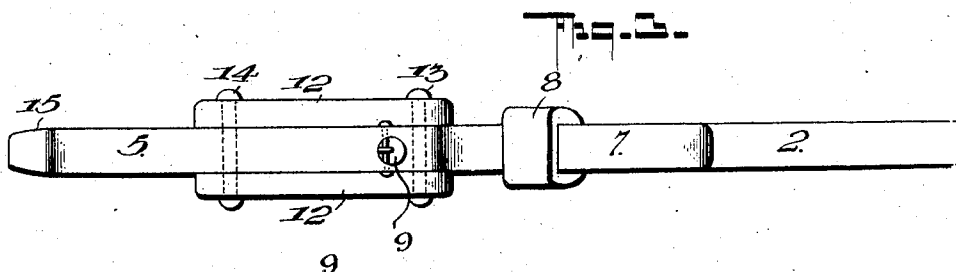
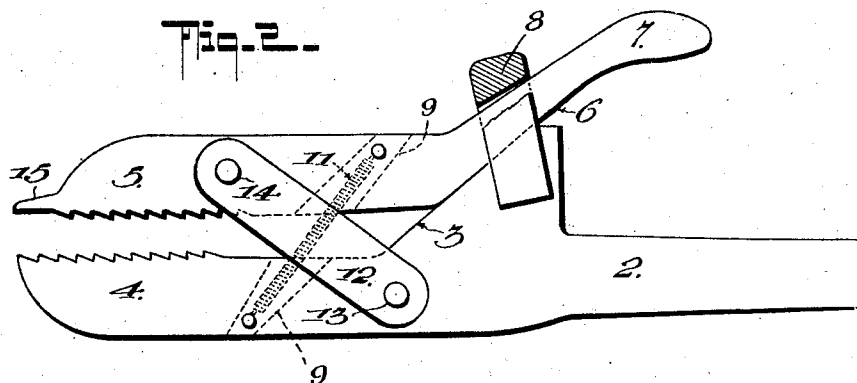
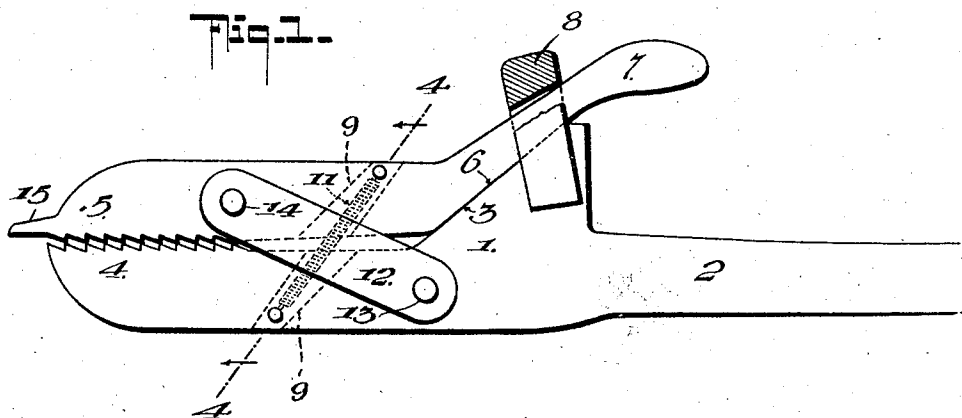
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WRENCH

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WRENCH.

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My invention relates to certain new and useful improvements in wrenches and it particularly has for its object to provide a wrench of the sliding jaw type of a simple and effective construction that can be manufactured at a low cost and effectively serve its intended purpose.

In its more generic nature the invention comprises a fixed jaw and handle with a slideway projecting from it, a slidable jaw and handle having a slideway to cooperate with that of the first element, the two jaws being connected together to maintain their slideways in contact, the inclination of the slideways being such that as the movable jaw body is slid along the slideway the jaws will be moved toward and from each other accordingly. There is also provided means continuously tending to hold the jaws together and another means permitting the jaws to be separated by engagement with the object to be grasped in applying the tool to the object.

With other objects in view which will be apparent to those skilled in the art the invention in its more specific nature resides in those novel structures, combinations and arrangements of parts, all of which will be first fully described, then be specifically pointed out in the appended claims, reference being had to the accompanying drawing, in which:—

Figure 1 is a side elevation of the invention, the jaws of the wrench being closed.

Figure 2 is a detail side elevation of a portion of the tool, the jaws being separated.

Figure 3 is an edge view.

Figure 4 is a cross section on the line 4—4 of Figure 1.

In the drawing in which like numerals of reference indicate like parts in all the figures, 1 is a body which at one end has a handle 2 and at the other end is provided with a jaw 4. The body 1 also has a lateral projection having an inclined slideway or face 3 that cooperates with the similar slideway or face 6 of the handling 7 of the sliding jaw 5. The jaw 5 is linked to the jaw body 1 by a link 12 on each side, which is pivoted at 13 to one body and at 14 to the opposite jaw. In order to continuously tend to hold the jaws in engagement I provide a resilient means (preferably a spring) 11 located in a suitable socket 9 in the jaw members and secured to said members. A strap 8 is also provided on the body 1 to embrace the han-

dle 7 of the jaw 5 opposite the slideway 6 and assists the links 12 in holding the faces 3 and 6 in contact.

15 is a nose secured to the jaw 5, by means of which the jaw 5 may be separated to enable the tool to grasp an object, or the separation may be effected by pulling back on the handle 7.

The opposing faces of the jaws 4 and 5 may be serrated in the usual way if desired.

It will be noticed from the drawing that by the arrangement shown the movable jaw 5 will move from and toward the fixed jaw 4 while maintaining the jaws parallel to one another, or in other words, one jaw will move from and toward the other jaw with parallel movement.

From the foregoing description, taken in connection with the accompanying drawing, it is thought the complete construction, operation and advantages of my invention will be clear to those skilled in the art.

What I claim is:

1. In a wrench of the class described, a body having a jaw and a handle and having a laterally projecting inclined slideway, a second body having a jaw and a handle with a slideway to engage said first mentioned slideway and adapted to be moved lengthwise along the first mentioned slideway to separate the jaws or bring them together again, means holding the bodies with their slideways together and spring means continuously tending to hold the jaws in contact, said slideways and said body holding means being so arranged that one jaw will move from and toward the other jaw with parallel movement.

2. In a wrench of the class described, a body having a jaw and a handle and having a laterally projecting inclined slideway, a second body having a jaw and a handle with a slideway to engage said first mentioned slideway and adapted to be moved lengthwise along the first mentioned slideway to separate the jaws or bring them together again, means holding the bodies with their slideways together and spring means continuously tending to hold the jaws in contact, said second body having a nose for the purposes described, said slideways and said body holding means being so arranged that one jaw will move from and toward the other jaw with parallel movement.

3. In a wrench of the class described, a body having a jaw and a handle and having

a laterally projecting inclined slideway, a second body having a jaw and a handle with a slideway to engage said first mentioned slideway and adapted to be moved lengthwise along the first mentioned slideway to separate the jaws or bring them together again, links pivoted to the bodies to connect their jaw ends together, and a strap on one body embracing the other to assist the links in holding the slideways in contact, said slideways and said links being so arranged that one jaw will move from and toward the other jaw with parallel movement.

PERCIVAL F. KING.