

Dec. 8, 1936.

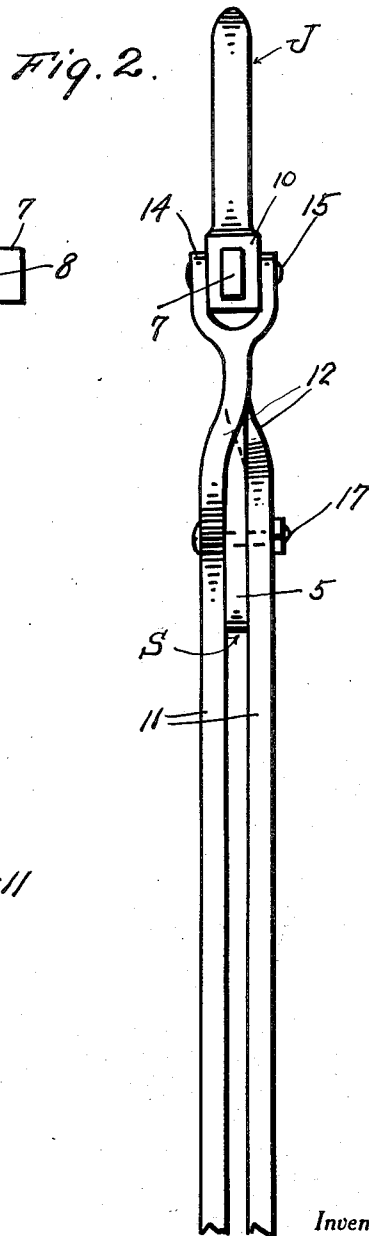
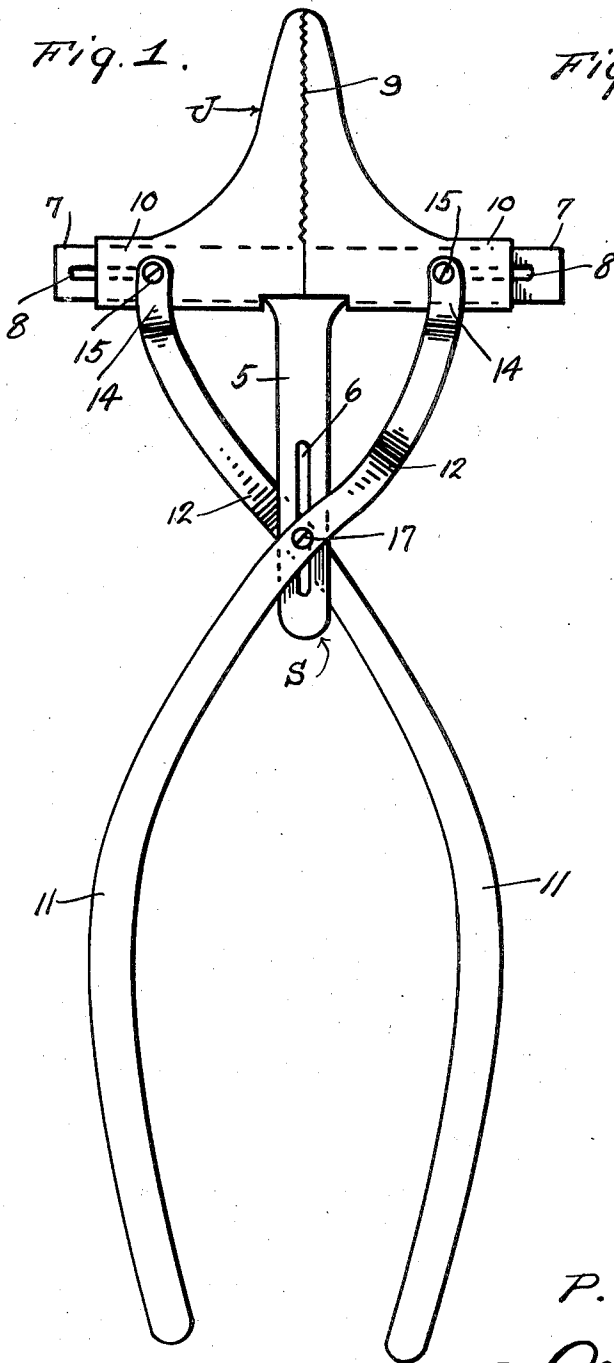
P. VERTES

2,063,532

PLIERS

Original Filed Aug. 20, 1935

2 Sheets-Sheet 1



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Fig. 3.

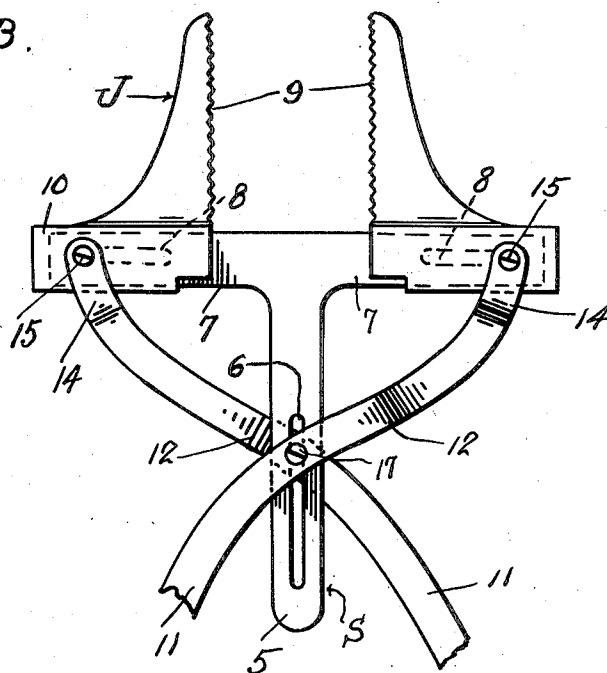


Fig. 4.

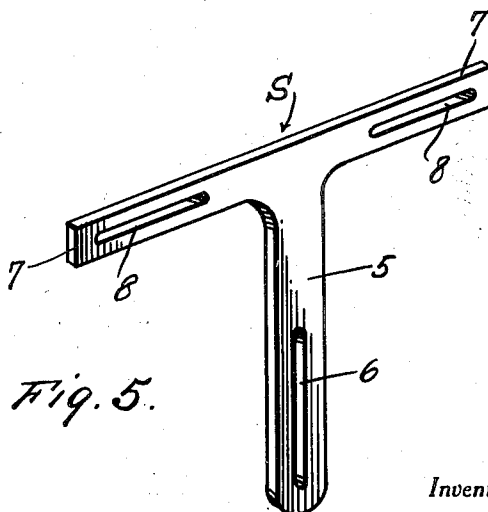
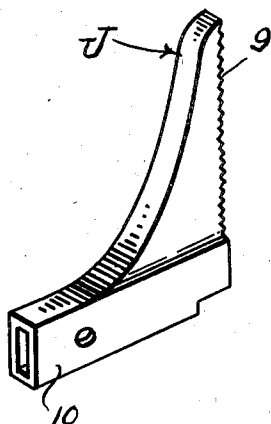


Fig. 5.

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UNITED STATES PATENT OFFICE

2,063,532

PLIERS

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Renewed June 9, 1936

2 Claims. (Cl. 81—50)

The present invention relates to pliers and the object of the invention resides in the provision of efficient, easily operated and effective means for providing pliers with a pair of jaws the gripping faces of which move so as to be disposed at all times in parallelism with each other.

Another important object of the invention resides in the provision of pliers of this nature which are simple in construction, inexpensive to manufacture, thoroughly efficient and reliable in use and otherwise well adapted for the purpose for which they are designed.

With the above and numerous other objects in view as will appear as the description proceeds, the invention consists in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawings:—

Figure 1 is a side elevation of a pair of pliers embodying the features of my invention.

Figure 2 is an edge elevation thereof.

Figure 3 is a side elevation thereof showing the jaws in open position.

Figure 4 is a perspective view of one of the jaws.

Figure 5 is a perspective view of the shank member.

Referring to the drawings in detail it will be seen that there is a shank member denoted generally by the letter S and comprising a shank 5 the lower end of which has a longitudinally extending slot 6 and the head arms 7, 7 of which are provided with longitudinally extending slots 8, 8. Jaws J are provided with serrated gripping faces 9 and at their bottoms with non-circular sleeves 10 to slide over the arms 7. Curved handles 11 have crossing portions 12 terminating in yokes 14 straddling the sleeves 10 and having bolts or the like 15 extending through the terminals thereof and through openings in the sleeves 10 and through the slots 8. The handles 11 are pivotally connected together by bolts 17 which extend through the slot 6. The ends of the handles between the crossing portions 12 and the jaws J are offset from the gripping ends of the handles.

From the above detailed description it will be readily appreciated that by moving the handles 11 toward and away from each other the jaws J may be moved toward and away from each other so that the gripping faces 9 thereof are disposed in parallelism whereby a more even grip is possible on the object being worked on than with the ordinary pliers.

It is thought that the construction, operation, utility and advantages of this invention will now be quite apparent without a more detailed description thereof.

The present embodiment of the invention has been described in considerable detail merely for the purposes of exemplification since in actual practice it attains the features of advantage enumerated as desirable in the statement of the invention and the above description.

It will be apparent that changes in the details of construction, and in the combination and arrangement of parts may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed or sacrificing any of its advantages.

What is claimed is:—

1. A pair of pliers of the class described comprising a T-shaped shank member having a shank with a pair of arms extending in opposite directions therefrom, the arms having slots and the shank having slots, jaws having sleeves slidable on the arms, a pair of handles, pivot bolts mounted in the handles through the slot in the shank and pivot bolts in the terminals of the handles extending through the sleeves and the slots of the arms.

2. A pair of pliers of the class described comprising a T-shaped shank member having a shank with a pair of arms extending in opposite directions therefrom, the arms having slots and the shank having slots, jaws having sleeves slidable on the arms, a pair of handles each handle having one end portion offset from the other end portion, the offset portions terminating in yokes, pivot bolts mounted in the handles through the slot in the shank and pivot bolts in the terminals of the yokes extending through the sleeves and the slots of the arms.

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