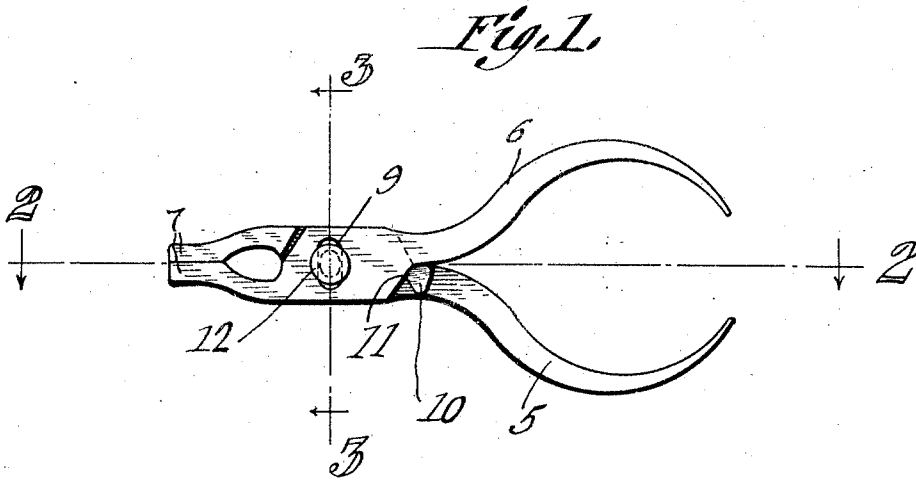
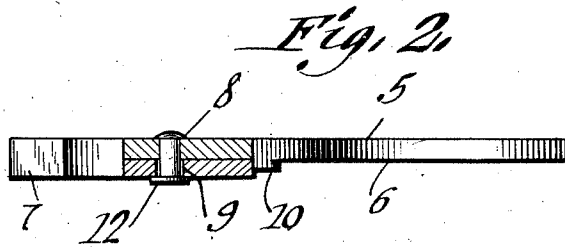
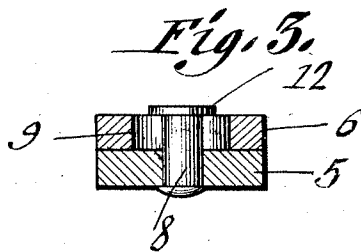


G. L. COLEMAN.
PLIERS.
APPLICATION FILED MAY 22, 1920.

1,372,278.

Patented Mar. 22, 1921.



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Inventor

Witness

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PLIERS.

1,372,278.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GEORGE L. COLEMAN, a citizen of the United States, residing at Blue Springs, in the county of Gage and State of Nebraska, have invented a new and useful Pliers, of which the following is a specification.

This invention has reference to tools, and more particularly to pliers, or the like.

The primary object of the invention is to provide pliers having a novel form of pivot means for connecting the handles of the pliers, to permit of adjustment of the jaws formed on the ends of the handle, to facilitate the use of the pliers on articles of various sizes.

A further object of the invention is to provide camming means carried by one of the handles of the pliers and adapted to cooperate with the opposite handle for forcing the jaws of the pliers into cooperative relation with each other to more securely grip the article under operation.

A still further object of the invention is to provide a connection between the handles to permit the jaws to automatically adjust themselves.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

Referring to the drawing:—

Figure 1 illustrates a plan view of a pliers constructed in accordance with the present invention.

Fig. 2 is a sectional view taken on line 2—2 of Fig. 1.

Fig. 3 is a sectional view taken on line 3—3 of Fig. 1.

Referring to the drawing in detail, the reference characters 5 and 6 designate the opposed handle sections of the pliers which are provided with the jaws 7, formed on one of the ends thereof.

The handle section 5 is provided with a pivot pin 8, which is substantially oval in cross section, so that the same will move within the elongated opening 9 formed in the handle section 6, the opening being shown as extending transversely of the handle section to permit the jaws to be adjusted toward and away from each other so that they may accommodate themselves for use with articles of various sizes.

Associated with the pivot pin 8, is a lug 10 disposed in spaced relation therewith, and as shown this lug is provided with the curved surface 11 adapted to cooperate with the inner surface of the opposed handle section whereby the strain usually directed to the pivot pin 8 will be directed to the lug 10.

From the foregoing it will be obvious that as the sections are moved toward each other, the curved surface of the lug 10 will move over one edge of the handle section 6, to cam the handle section and their jaws into close engagement with the article under operation, to insure a rigid gripping of the article.

It might be further stated that due to the construction of the pin 8, the head 12 thereof prevents displacement of one section with relation to the other, and at the same time permits of an automatic adjustment, when the sections are moved apart to open the jaws thereof.

Having thus described the invention, what is claimed as new is:—

In a tool, opposed pivoted handle sections carrying jaws, one of said sections having an elongated opening, a pivot pin operating in the opening and carried by the opposed section, a lug carried by one section and adapted to cooperate with one edge of the opposed section for causing the pin to move in the opening to permit the jaws to grip a body.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

GEORGE L. COLEMAN.

Witnesses:

F. J. PATTON,
R. N. SCOTT.