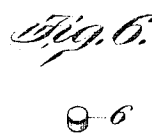
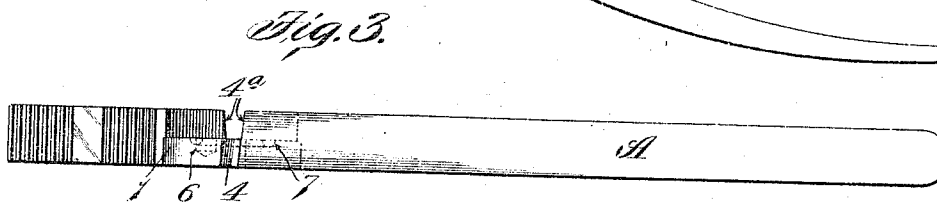
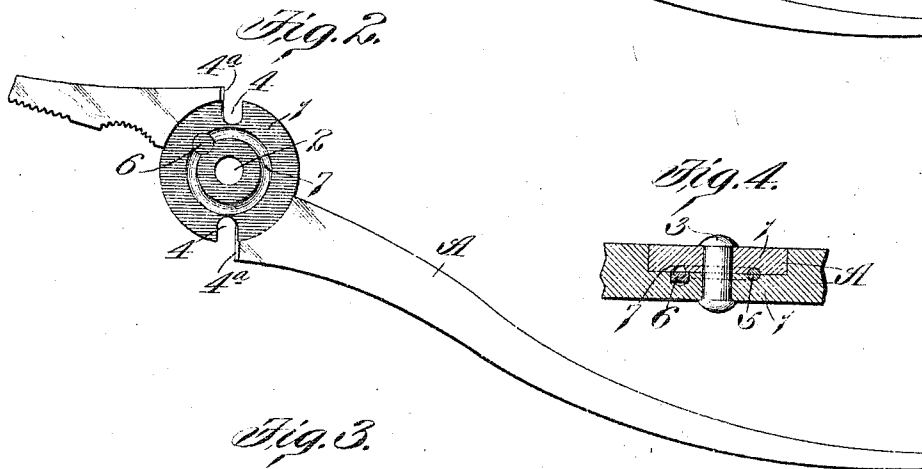
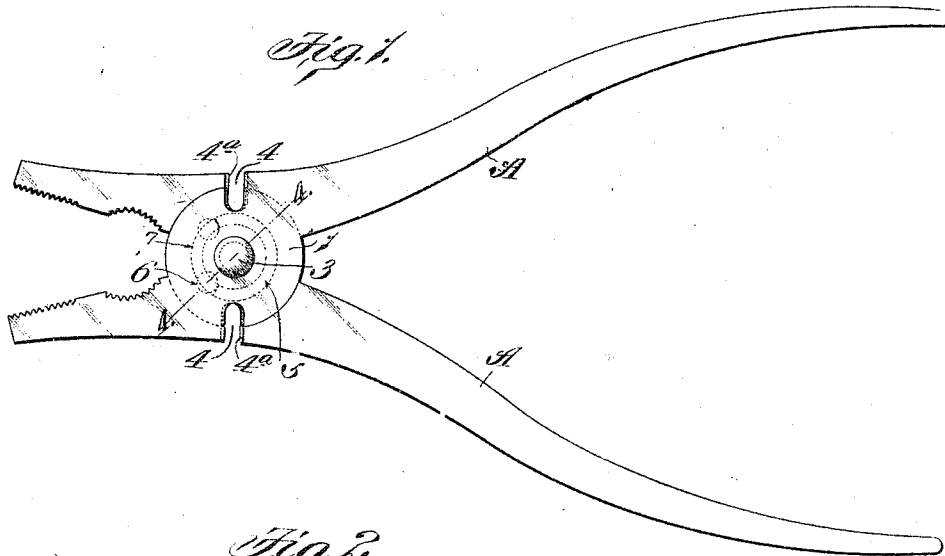


M. H. MANN.
WIRE CUTTER.
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1,018,839.

Patented Feb. 27, 1912.



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UNITED STATES PATENT OFFICE.

MILES H. MANN, OF WEBSTER GROVES, MISSOURI, ASSIGNOR TO BUFFUM TOOL COMPANY, OF LOUISIANA, MISSOURI, A CORPORATION OF MISSOURI.

WIRE-CUTTER.

1,018,839.

Specification of Letters Patent.

Patented Feb. 27, 1912.

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To all whom it may concern:

Be it known, that I, MILES H. MANN, a citizen of the United States, residing at Webster Groves, Missouri, have invented a certain new and useful Improvement in Wire-Cutters, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to wire-cutters, and particularly to wire-cutters of the type in which two pivotally connected members provided with cooperating wire-receiving notches are adapted to be moved relatively to each other so as to cause the cutting edges on said notches to shear off the wire.

The object of my invention is to provide means of novel construction for limiting the opening movement of the members of a wire-cutter of the type referred to so as to bring the cooperating wire-receiving notches in said members into perfect registration or alinement.

I have herein shown my invention embodied in a combined pliers and wire-cutter but I do not wish it to be understood that my invention is limited to such a tool for the invention is applicable to any wire-cutter that comprises two pivotally connected members which have cooperating wire-receiving notches.

Figure 1 of the drawings is a side elevational view of a combined pliers and wire-cutter constructed in accordance with my invention; Fig. 2 is a side elevational view of one member of the tool; Fig. 3 is a top plan view or edge view of the tool; Fig. 4 is a sectional view taken on the line 4—4 of Fig. 1; Fig. 5 is a detail view of the device that cooperates with the stops on the two members of the tool to limit the opening movement of said members and thus bring the wire-receiving notches into alinement; and Fig. 6 is a perspective view of one of the stops that cooperate with the device shown in Fig. 5.

Referring to the drawings which illustrate the preferred form of my invention, A designates two pivotally connected members, each of which comprises a handle, a jaw, and a disk-shaped portion 1 located between the handle and the jaw and provided with a center opening 2 for receiving the pin or pivot 3 which connects the members A together. The disk-shaped portions 1 of

the members A are provided with cooperating wire-receiving notches 4 that register with each other when the jaws or handles of the members A are open or separated, as shown in Fig. 1, and said notches have cutting edges 4^a which sever the wire when the handles of said members are closed or brought together.

In order that the wire-receiving notches 4 will register exactly when the jaws of the members A are opened, I have arranged a device 5 between the disk-shaped portions 1 of the members A in such a manner that stops or shoulders 6 on said disk-shaped portions will strike against the ends of the device 5 when the wire-receiving notches 4 come into alinement with each other, thus positively limiting the opening movement of the members A. The device 5 is sector-shaped, and is arranged in cooperating grooves 7 formed in the meeting faces of the disk-shaped portions of the members A, said grooves being so proportioned that the meeting faces of said disk-shaped portions will contact or bear upon each other, as shown in Figs. 3 and 4. When the handles of the members A are closed or brought together the stops 6 on said members move away from the ends of the spacing device 5. The device 5 and the stops 6 may be formed in various ways without departing from the spirit of my invention, but on account of the low cost of manufacture I prefer to form a ring-shaped groove 7 of semi-circular-shape in cross section in the meeting face of the disk-shaped portion 1 of each of the members A, and arrange a pin 6 in a recess in said groove so as to form a stop that will strike against one end of the device 5 when the members A are opened, the upper ends of the pins 6 lying flush with the meeting faces of the disk-shaped portions of the members A. The device 5 can be formed conveniently by coiling a round iron rod and then cutting it into substantially C-shaped segments, but it will, of course, be obvious that it is not absolutely necessary to have the device 5 of the same cross sectional shape as the combined cross-sectional area of the cooperating grooves 7 in the meeting faces of the disk-shaped portions 1, although I prefer to have the device 5 fit snugly in said grooves.

A tool of the construction above-described can be manufactured at a low cost, it pre-

sents a neat appearance because the means which limits the opening movement of the members A is hidden from view, and it is strong and serviceable because there is no danger of shearing off the stops which limit the opening movement of said members.

As previously stated, I do not wish it to be understood that my invention is limited to a combined plier and wire-cutter; nor do I wish it to be understood that the invention is limited to a wire-cutter having two wire-receiving notches arranged in the manner herein shown for my invention, broadly stated, consists in a tool provided with two pivotally connected members, a device arranged in the meeting faces of the portions of said members through which the connecting pivot passes, and stops on said portions which cooperate with said device to limit the opening movement of said members.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A tool provided with pivotally-connected members, a sector-shaped device arranged between the cooperating portions of said members through which the connecting pivot passes, and stops on said portions which bear against the ends of said device and thus limit the opening movement of said members.

2. A tool provided with two pivotally-connected members that have alining grooves formed in the cooperating portions thereof through which the pivot passes, a sector-shaped device arranged in said grooves, and stops on said members which strike against the ends of said device when said members are opened.

3. A wire-cutter consisting of two pivotally-connected members that are provided with cooperating wire-receiving notches, a stop on each of said members, and a device arranged between the pivotally-connected portions of said members and cooperating

with said stops to bring said wire-receiving notches into registration when said members are opened.

4. A wire-cutter comprising two pivotally-connected members having disk-shaped portions which are provided with cooperating wire-receiving notches, registering grooves formed in the meeting faces of said disk-shaped portions, a sector-shaped device mounted freely in said grooves, and stops on said disk-shaped portions which strike against the ends of said device when said wire-receiving notches come into alinement with each other.

5. A tool of the character described, comprising two pivotally-connected members having disk-shaped portions through which the pivot passes, cooperating wire-receiving notches in said disk-shaped portions, registering ring-shaped grooves formed in the meeting faces of said disk-shaped portions, a sector-shaped device arranged between said disk-shaped portions in said grooves, and stops arranged in the grooves in said members which are adapted to strike against the ends of said device when said wire-receiving notches register during the opening movement of said members.

6. A wire-cutter comprising two pivotally-connected members that are provided with cooperating cutters, a sector-shaped device mounted freely between the cooperating portions of said members through which the connecting pivot passes, and means on said members which strike against the ends of said device and thus limit the opening movement of said members when the cooperating cutters on said members reach a certain position.

In testimony whereof I hereunto affix my signature in the presence of two witnesses, this twenty-fifth day of November 1911.

MILES H. MANN.

Witnesses:

WELLS L. CHURCH,
GEORGE BAKEWELL.