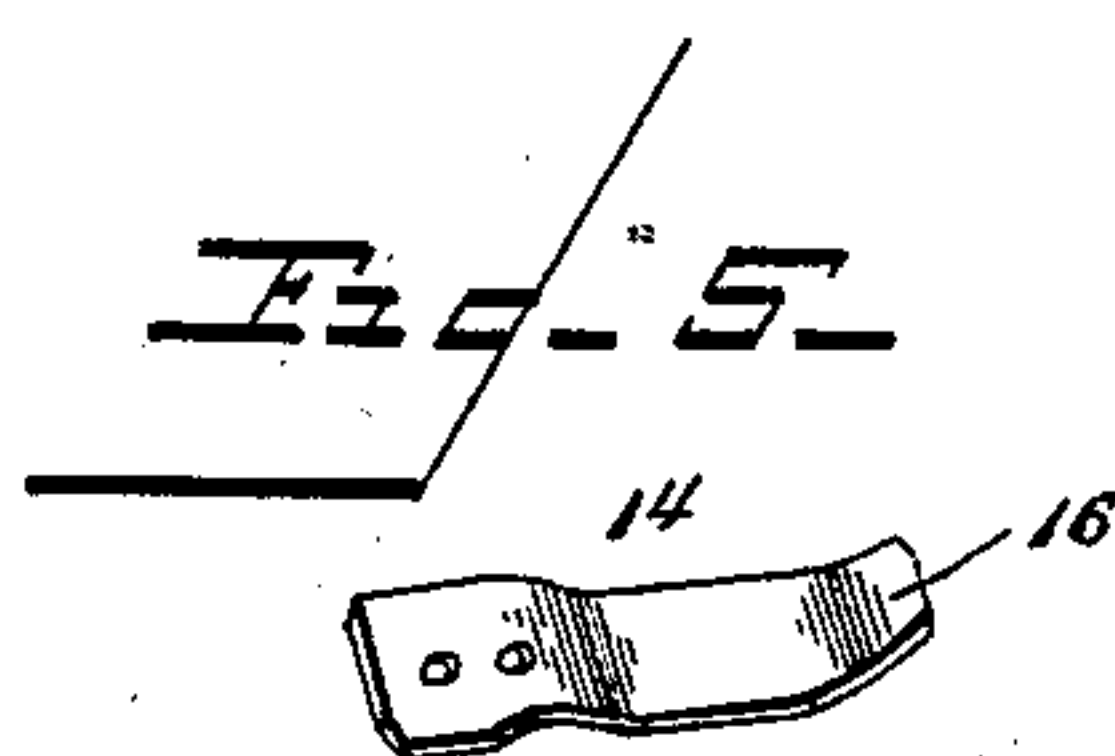
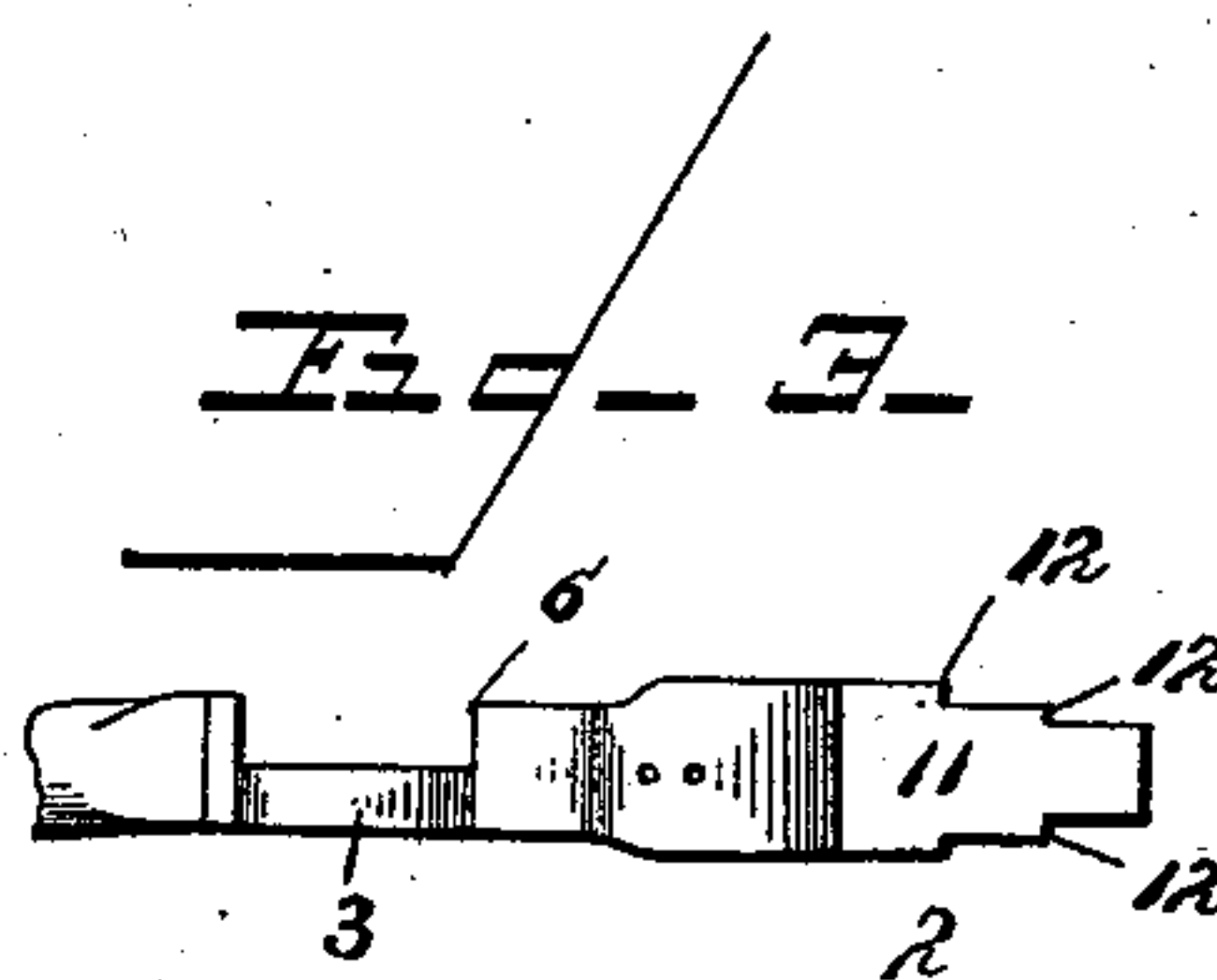
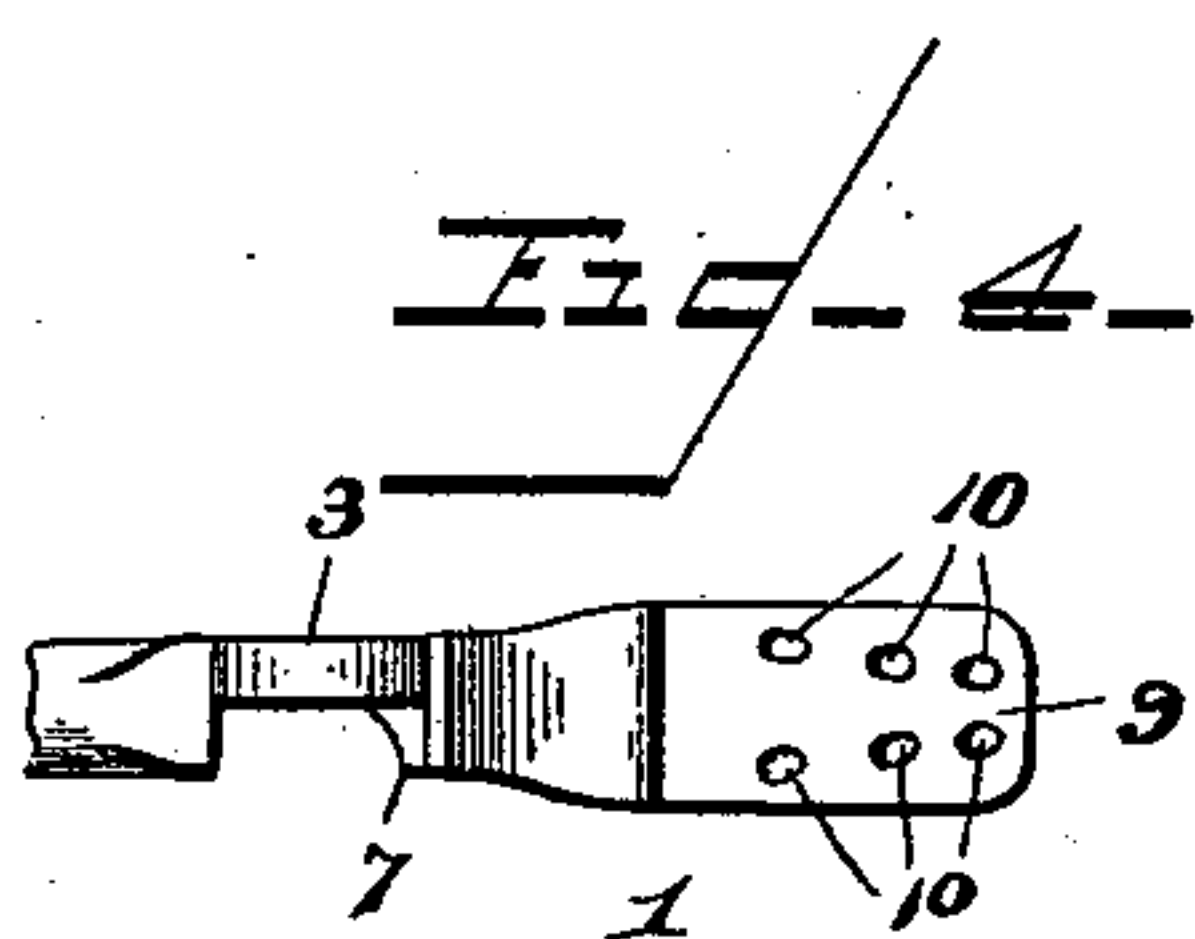
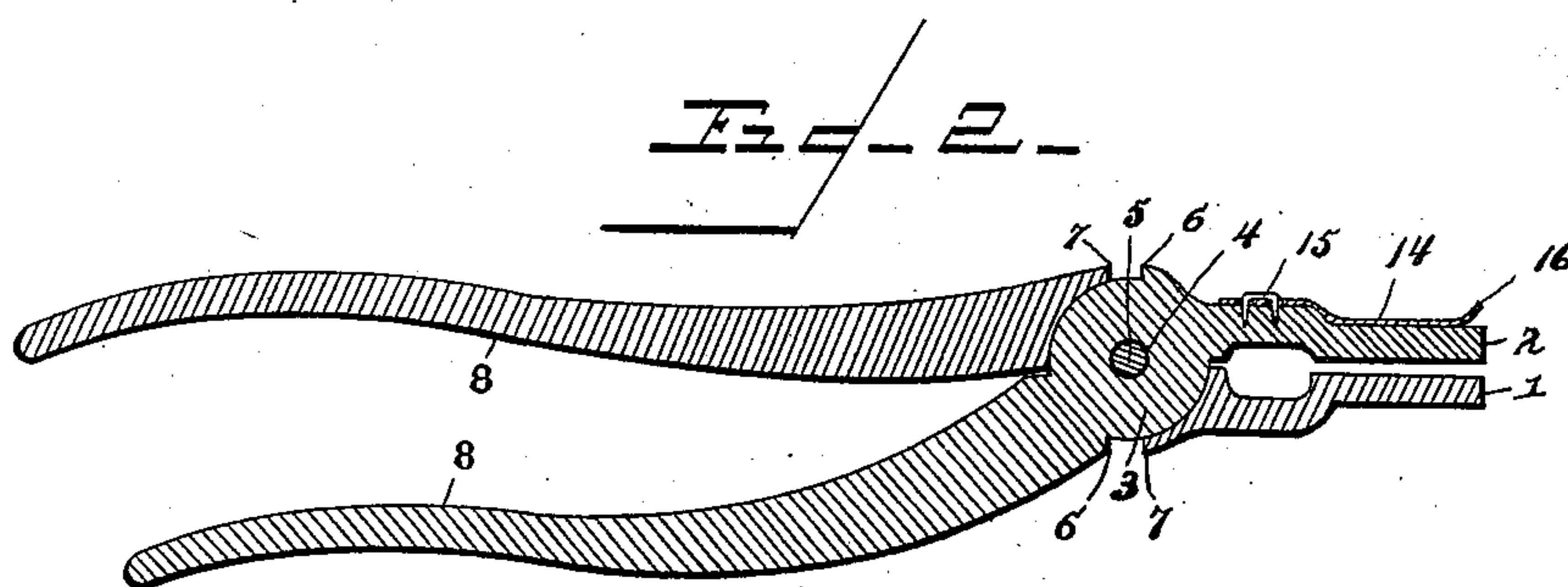
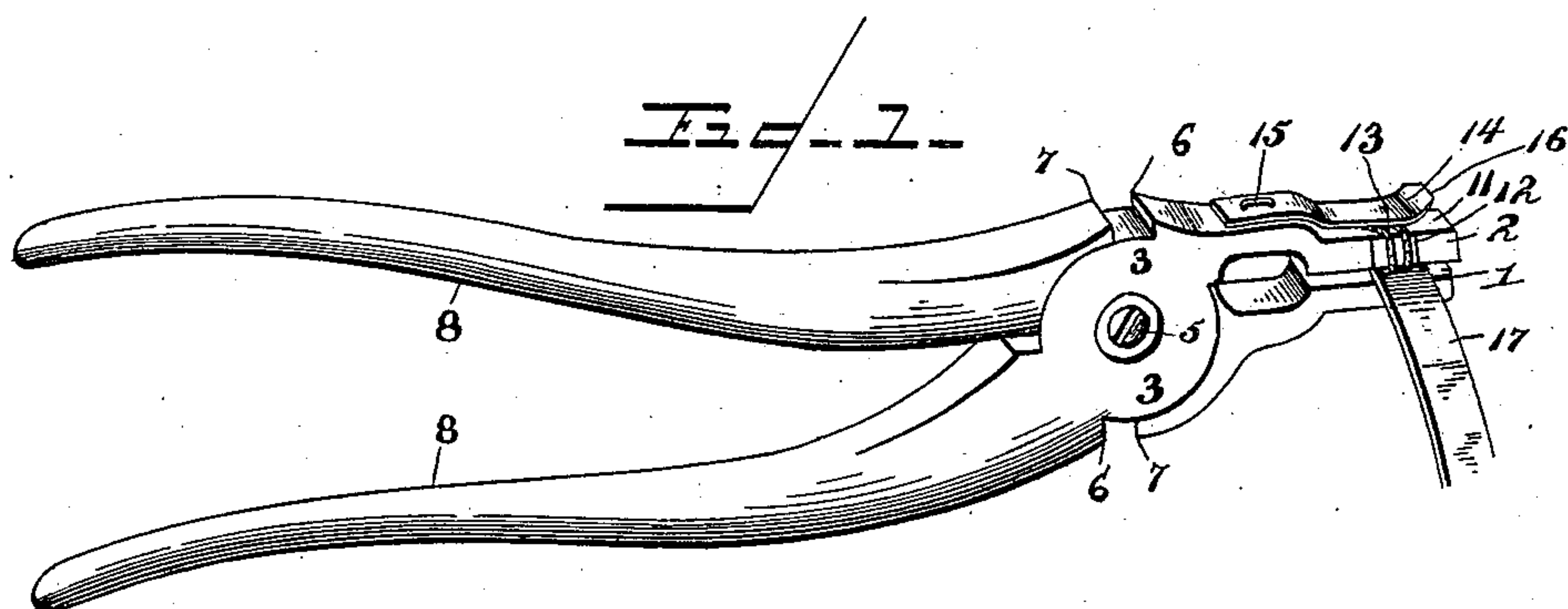


(No Model.)

A. G. SCHMIDT.
LOOP SET.

No. 532,825.

Patented Jan. 22, 1895.



Witnesses,
F. Kiesel.

J. B. Owens.

By his Attorneys,

C. A. Snow & Co.

Inventor
August G. Schmidt.

UNITED STATES PATENT OFFICE.

AUGUST G. SCHMIDT, OF MARIETTA, OHIO.

LOOP-SET.

SPECIFICATION forming part of Letters Patent No. 532,825, dated January 22, 1895.

Application filed June 14, 1894. Serial No. 514,591. (No model.)

To all whom it may concern:

Be it known that I, AUGUST G. SCHMIDT, a citizen of the United States, residing at Marietta, in the county of Washington and State of Ohio, have invented a new and useful Loop-Set, of which the following is a specification.

The purpose of this invention is to provide a device capable of setting harness loops to their straps, and particularly that class of loops which is disclosed in my pending application, Serial No. 514,465, for patent on improvements in loops for check-reins.

To this end the invention consists in a device having one jaw formed with a series of different sized seats thereon adapted to receive the loop and, with the assistance of a spring, to hold it in place, while the companion jaw is provided with a series of correspondingly-related indentations adapted to effect the bending or clinching of the points of the loop.

In the accompanying drawings, Figure 1 represents a perspective view of my improvements, showing them in the act of affixing a check-rein loop to its strap; Fig. 2, a longitudinal section of the invention; Fig. 3, a plan view of the jaw to which the loop is secured; Fig. 4, a plan view of the remaining jaw, taken toward its inner or engaging face; Fig. 5, a detail perspective of the securing spring.

The device is constructed of two principal parts, namely, the jaws 1 and 2, both of which are formed with the circular portions 3. These portions 3 are reduced in thickness so that they will be capable of fitting together, and are each provided with central openings 4, through which the pivoting bolt 5 is adapted to pass, and whereby the two jaws are pivotally joined. Each jaw is provided with a shoulder 6, which is adapted to engage, when the jaws are opened, with a corresponding shoulder 7 formed on the companion jaw, whereby the movement of the jaws is limited. 8 indicates the handles of the jaw, which are extended rearwardly and which are provided to permit the manipulation of the pliers, as will be understood.

The jaw 1 is formed with a horizontally-extended portion 9, which has a plane upper face formed with the depressions 10 therein. The depressions 10 are, by preference, six in

number, arranged in three pairs, though this may be varied to suit the exigencies of the occasion. The three pairs in which the depressions 10 are arranged are longitudinally aligned on the portion 9, and the forward pair is disposed with its depressions nearer each other than the depressions of any other pair, while the pair directly adjacent has its depressions farther apart, though not as far as the inner pair, or the pair nearest to the bolt 5. In other words, the depressions of each pair converge as they proceed toward the outer or forward end of the portion 9.

The jaw 2 is formed with a forwardly-extending portion, or jaw proper, 11, which has its sides provided with the notches 12, which are of a number equal to the number of pairs of depressions 10, and which are so arranged that they will register respectively with the two forward pairs of notches; while the main or unbroken sides of the jaw proper, 11, will register with the notches of the inner pair. The thickness of the part 11 should be such that it will be capable of passing into and securely, though not immovably, holding the loop, numbered 13 in the drawings.

14 indicates a spring, which is secured to the upper and inner side of the jaw proper 11, by means of the staple 15, and which projects out, lying snugly against the upper side of the jaw, to the front end thereof, where it is provided with a slight upward curve or nose, shown at 16.

In the use of my invention, the loop to be affixed to its strap is placed upon the portion 11 of the jaw 2, and within that part which is best adapted in size for its reception. For example, as shown in Fig. 1, the middle width of the said jaw. The spring 14 is now allowed to close down upon the upper side of the loop, so as to hold it snugly in place, whereupon the jaws of the device should be opened, so that the strap, numbered 17 in the drawings, will be allowed to pass over the portion 9 of the jaw 1. When this has been done, the device should be operated to clamp its jaws together, which will cause the points of the loop to forcibly engage the depressions 10 which are located directly below it. This will result in a bending of the points, and, as the closing of the jaws continues, the points will be clamped or clinched against the un-

der side of the strap. The device may now be released from the loop by opening its jaws and withdrawing them longitudinally.

It will be seen that by means of my improvements various sized loops may be attached to their respective straps with comparative ease, and with great efficiency. By means of the spring 14 the loops are held in place before being affixed, as has been described and as will be understood. It will also be understood that my invention is subject to various changes in the size, proportion and arrangement of elements without departing from it; and since these changes can readily be effected by any skilled mechanic, I consider myself entitled to all such as come within the spirit and scope of my invention.

Having described the invention, I claim—

A wire loop setting device consisting of opposed pivoted jaws of different widths, the

wider of said jaws being provided on its inner face with separate pairs of depressions 10 arranged in a regular series with the depressions of each pair convergently disposed toward the outer end of said wide jaw, and the other narrow jaw being provided at its side edges with a step series of shoulder notches 12, each pair of said notches being located directly opposite one pair of said depressions 10, and a spring arm arranged on and bearing against the outer side of the narrow jaw, substantially as set forth.

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

AUGUST G. SCHMIDT.

Witnesses:

G. W. WENDELKEN,
CHARLES H. NIXON.