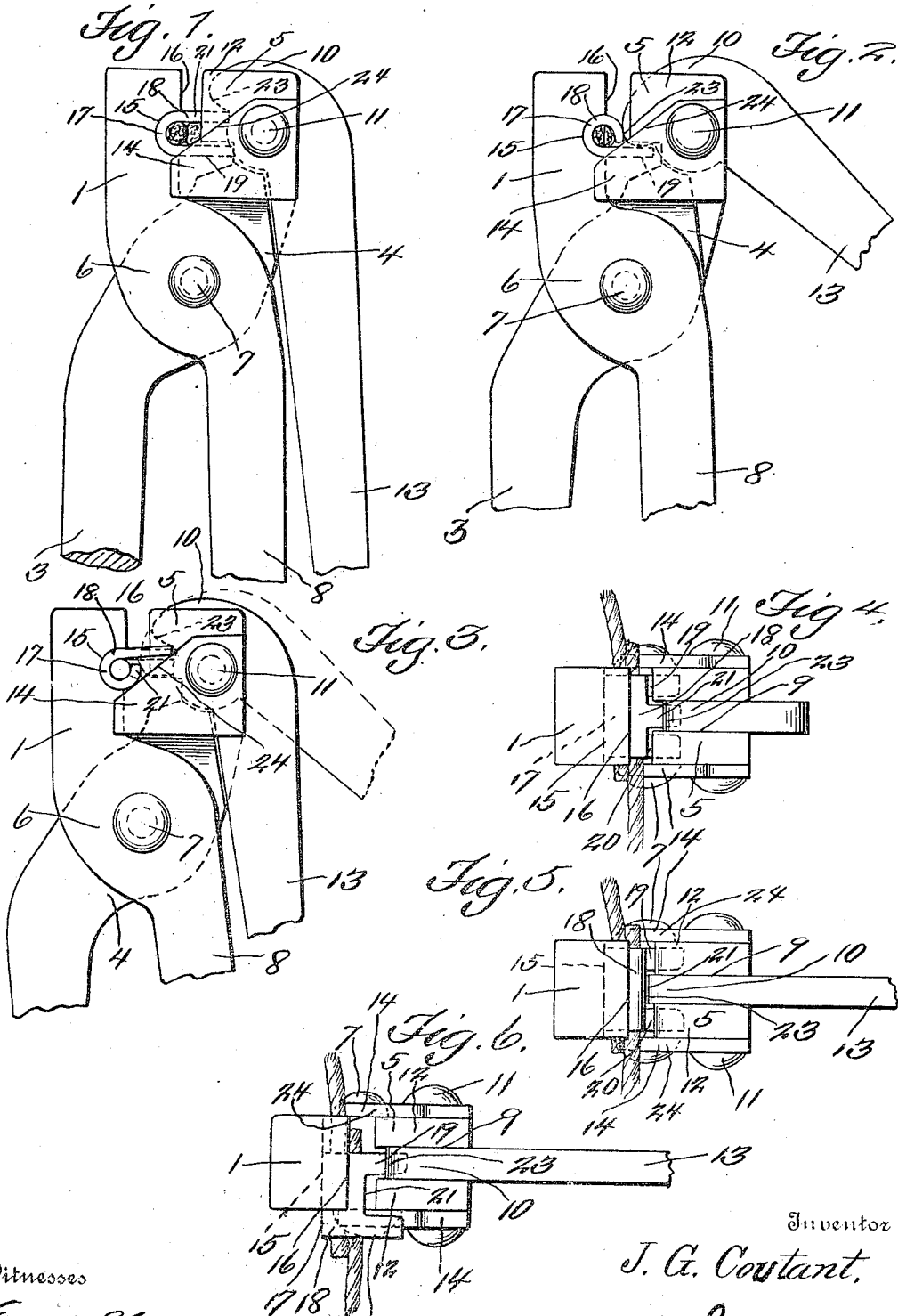


J. G. COUTANT.
PLIERS FOR CLAMPING CLIPS.
APPLICATION FILED MAY 4, 1912.

1,042,404.

Patented Oct. 29, 1912.

2 SHEETS—SHEET 1.



Witnesses

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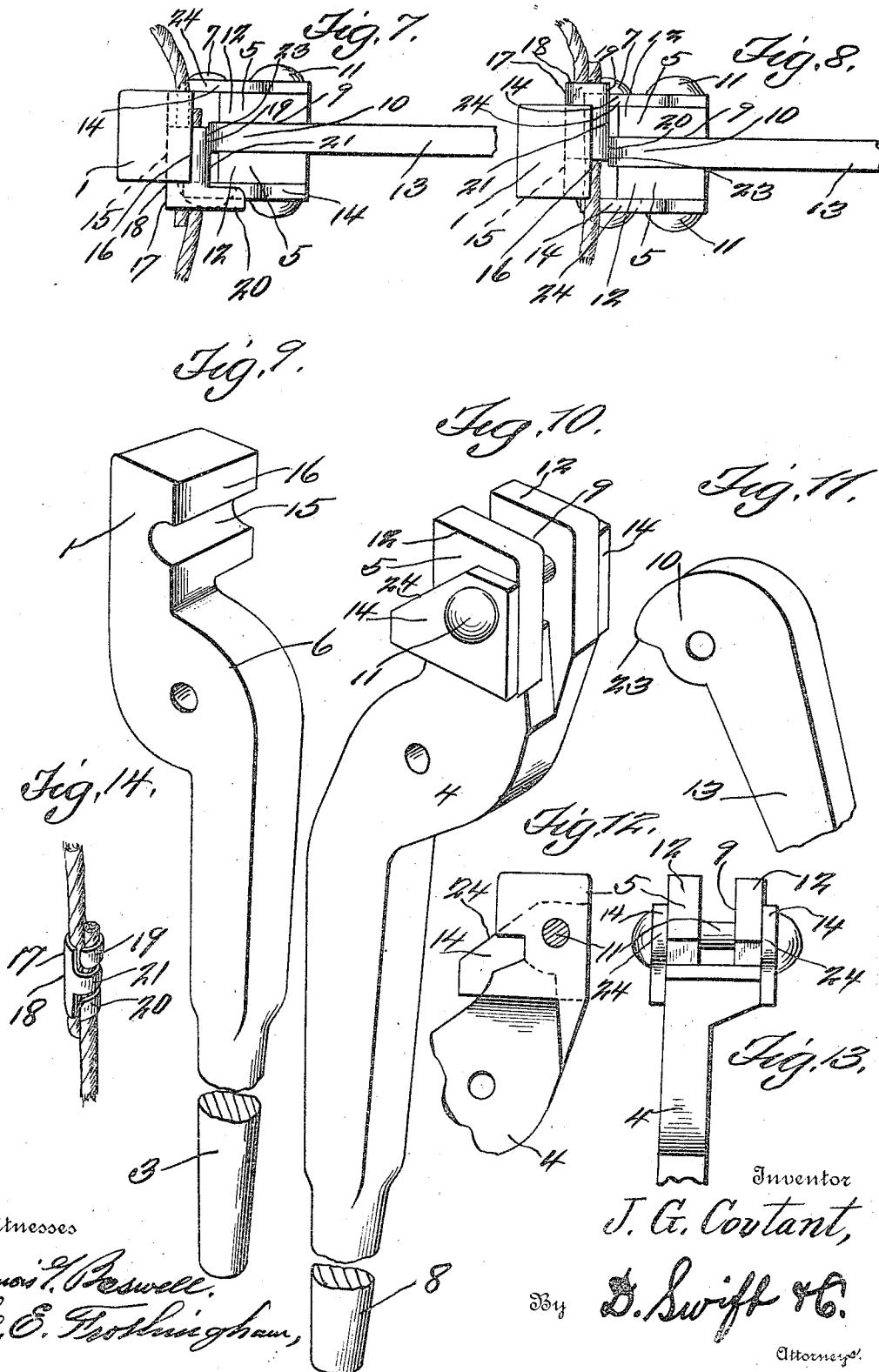
Attorney

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2 SHEETS—SHEET 2.



Witnesses

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UNITED STATES PATENT OFFICE

JAY GOULD COUTANT, OF WATERVLIET, NEW YORK.

PLIERS FOR CLAMPING CLIPS.

1,042,404.

Specification of Letters Patent.

Patented Oct. 29, 1912.

Application filed May 4, 1912. Serial No. 695,103.

To all whom it may concern:

Be it known that I, JAY G. COUTANT, a citizen of the United States, residing at Watervliet, in the State of New York, have
5 invented new and useful Pliers for Clamping Clips; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a new and useful pair of pliers, adapted for clamping a clip about the ends of two cables or the like, so as to couple them together.

15 The principal object of the invention is to provide an improved device of this design, adapted for clamping clips to and between the ends of cables more quickly and efficiently.

20 The invention comprises further features and combination of parts, as hereinafter set forth, shown in the drawings and claimed.

In the drawings: Figure 1 is a view in elevation of the improved pliers constructed
25 in accordance with the invention. Fig. 2 is a similar view showing the first step in bending one of the prongs of the clip. Fig. 3 is a view similar to 1 and 2 showing the second step in bending the prong 19. Fig. 4
30 is a plan view of Fig. 1. Fig. 5 is a top plan edge view of Fig. 2. Fig. 6 is a view similar to Fig. 5 showing a part of the second step for bending the prong 19. Fig. 7 is a view similar to Fig. 6 showing the last part of the
35 second step for bending the prong 19. Fig. 8 is a view similar to Figs. 6 and 7 showing the third step for bending the prong 20. Fig. 9 is a perspective view of the jaw 1. Fig. 10 is a perspective view of the jaw 5.
40 Fig. 11 is a detail perspective view of the cam jaw 10. Fig. 12 is a view in elevation of the jaw 5 with one of the plates 14 removed. Fig. 13 is an edge view in elevation of the jaw 5. Fig. 14 is a detail view of two cables
45 fastened together by the clip 18.

Referring to the drawings 1 designates the base jaw of the pliers. This jaw 1 terminates in the usual form of handle 3. Pivoted to the jaw 1 is the body 4 of the jaw 5. Extending through the body 4 and the body 6
50 of the jaw 1 is the pivot pin 7, thereby pivotally connecting the two jaws.

The body 4 of the jaw 5 terminates in a handle 8. The jaw 5 is formed with a bifurcation 9, in which the cam jaw 10 is ar-

ranged, there being a pivot pin 11 passing through the arms 12 formed by the bifurcation and through the cam jaw, thereby pivotally mounting the same. The cam jaw terminates in a handle 13. Arranged on
55 each side of the pliers and carried by the jaw 5 is a plate 14. The jaw 1 is formed with a semi-circular recess 15 in the face 16, to receive the arched curved portion 17 of the U-shaped metal clip 18. One side of the
60 clip is formed with two tongues designated 19 and 20; while the other side is formed with a tongue 21. In connecting two cables together, the clip 18 is arranged in the recess 15 of the jaw 1, as shown in Fig. 1,
65 with one end of each cable arranged in the clip. The ends of the cables overlap. The jaws 1 and 5 are then brought together thus forcing the cables firmly in the clip; and then the handles 3 and 8 of the jaws 1 and 5 are
70 moved together as one body, and in a direction from the handle 13, thus, causing the cam portion 23 of the cam jaw to bend the tongue 21 in contact with the cables. The clip with the cable therein is then adjusted
75 so that the tongue 20 engages one of the plates 14, after which the two handles are moved as one body, thereby causing the cam portion 23 to bend the tongue 19 in contact with the cable. Subsequently the clip is
80 again arranged, and the tongue 20 is bent in similar manner by the cam portion 23. When the tongues of the clip are so bent, the two end portions of the cables are crushed
85 firmly together.

The plates 14 are provided with inclined edges 24 with which the clip cooperates for bending the last two tongues 19 and 20.

The invention having been set forth, what is claimed as new and useful is:—

95 1. In combination, a pair of jaws pivoted together and terminating in handles, one of the jaws having its inner face provided with a semi-circular recess adapted to receive a curved arched portion of a U-shaped clip,
100 one side of which is formed with one tongue while the other side is formed with two tongues, the other jaw having a bifurcation, the side walls between which the bifurcation is formed being provided with oppositely
105 arranged recesses adapted to receive the two tongues, a cam jaw including a lever pivoted in the bifurcation adapted to bend the single tongue of the clip while the two tongues are received in the recesses, the bifurcated jaw
110

having plates, one secured upon each side thereof, and provided with inclined portions, adapted to bend the two tongues.

2. In combination, a pair of jaws pivoted together and terminating in handles, one of the jaws having its inner face provided with a semi-circular recess, while the other jaw is constructed with a bifurcation, the side walls of the bifurcated jaw having their edges adjacent the opposite jaw constructed with oppositely arranged recesses, a cam jaw in-

cluding a lever pivoted in said bifurcation, and a plate secured on each side of the bifurcated jaw and provided with an inclined portion.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JAY GOULD COUTANT.

Witnesses:

JAS. P. McDONOUGH,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."