

(Model.)

J. STRASZER.
Combination Hammer.

No. 243,653.

Patented June 28, 1881.

Fig. 1

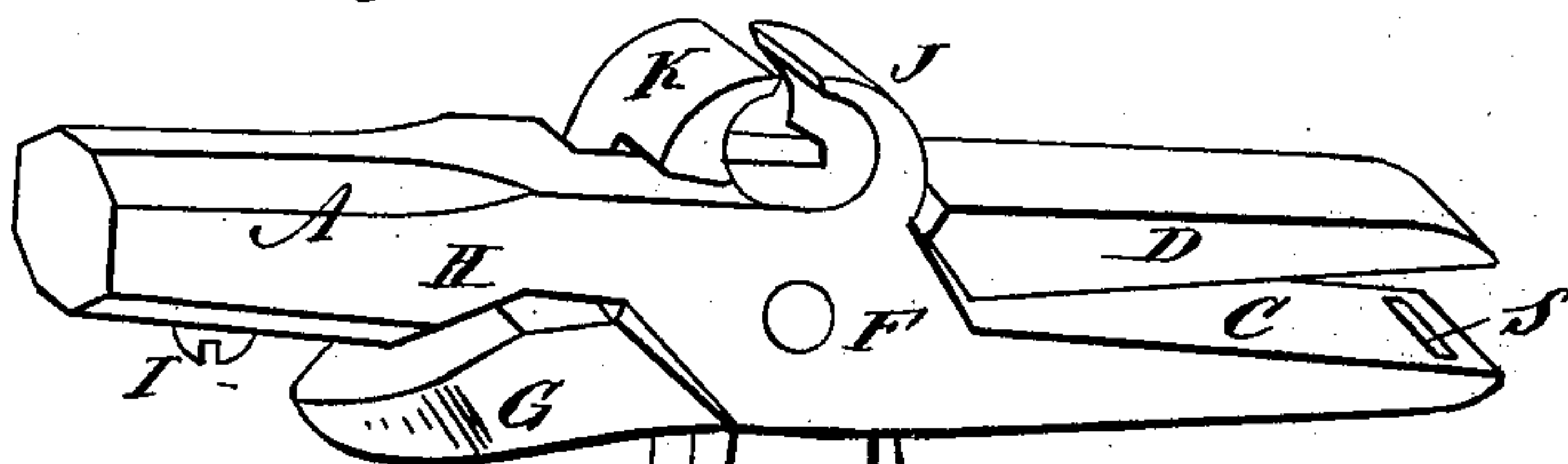


Fig. 2

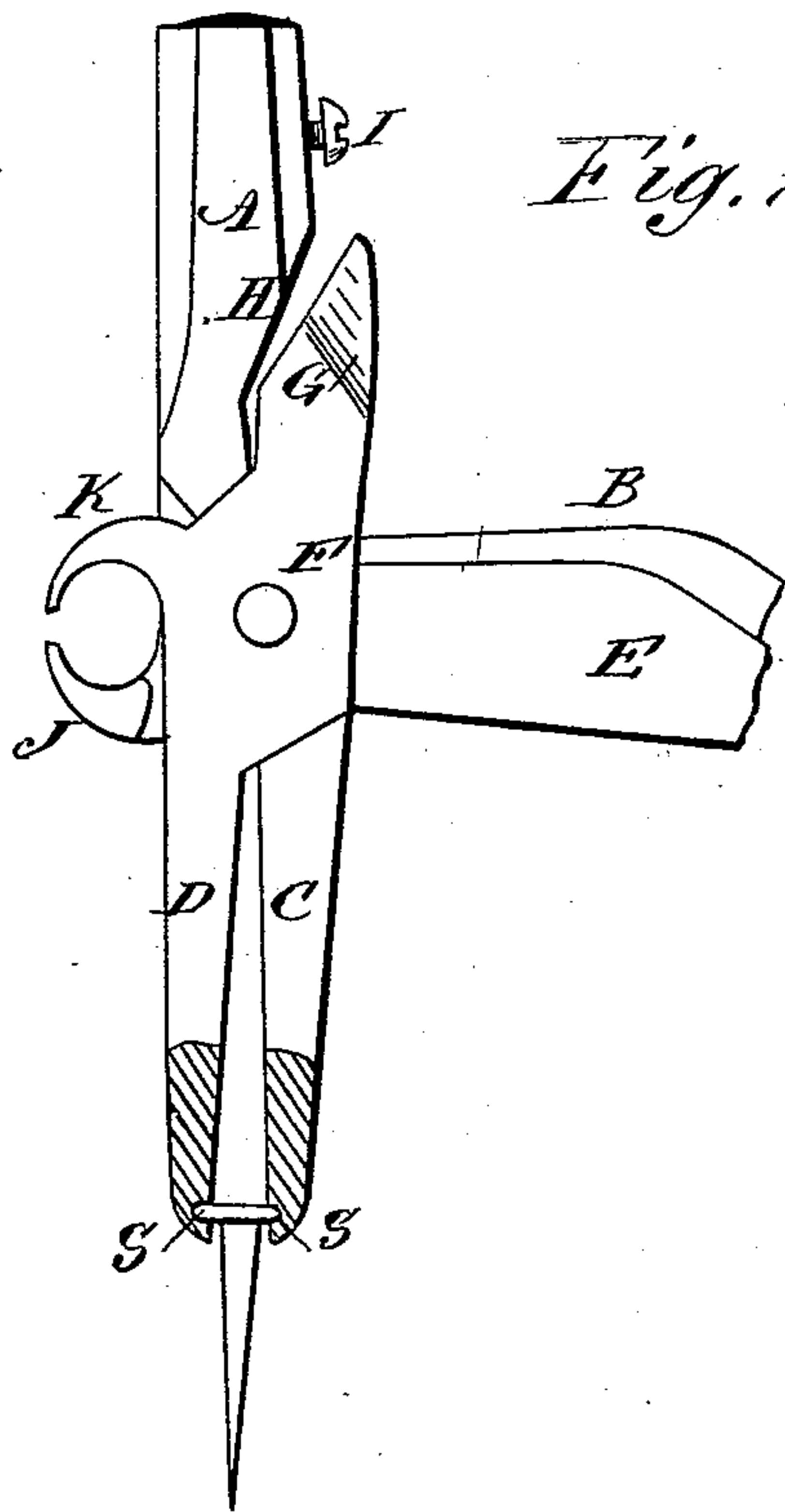
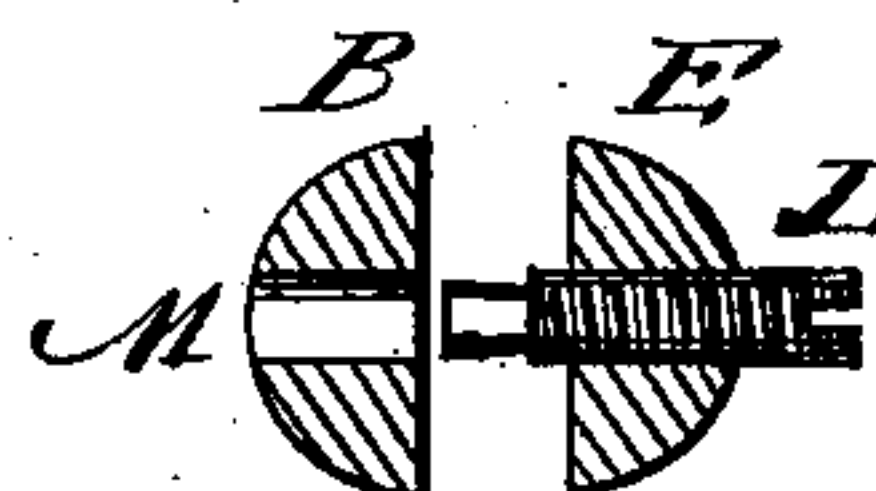


Fig. 5



WITNESSES:

C. Neveu
to Seagrave?

INVENTOR:

BY *W. J. Straszer*
Munn Ho
ATTORNEYS.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN STRASZER, OF MANCHESTER, MISSOURI.

COMBINATION-HAMMER.

SPECIFICATION forming part of Letters Patent No. 243,653, dated June 28, 1881.

Application filed February 24, 1881. (Model.)

To all whom it may concern:

Be it known that I, JOHN STRASZER, of Manchester, in the county of St. Louis and State of Missouri, have invented a new and Improved
5 Combination-Hammer, of which the following is a specification.

Figure 1 is a perspective view of my improvement. Fig. 2 is a side elevation, partly in section, of a part of the same. Fig. 3 is a cross-
10 section of the same, taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to combine a
15 number of appliances in a single instrument, and thus avoid the necessity of having a number of small tools.

The invention consists in constructing a combination-hammer of two pivoted handles, having cross-bars upon their pivoted ends, forming a hammer-head, a pliers, a nippers, and a saw-set, a punch attached to the perforated
20 handles, a tack-claw formed upon the end of one handle, a screw-driver formed upon the
25 end of the other handle, and adjustable jaws secured by set-screws to the squared end part of one of the handles, as will be hereinafter fully described.

A is a hammer-head, which is attached to a
30 handle, B, and is extended beyond the said handle to form one jaw, C, of a pliers. D is the other jaw of the pliers, which is attached to a handle, E, is halved to the head A C, and is connected to the said head A C by a pivot,
35 F. The jaw D is extended beyond the handle E, and is inclined upon its inner side to form the movable jaw G of a saw-set. The jaw G, when closed, shuts into an inclined recess in the hammer-head A, which forms the stationary jaw or anvil H of the saw-set.
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In the hammer-head A, a little beyond the recess or jaw H, is placed a set-screw, I, to serve as a stop or gage for the saw-set, and which can be turned in or out to give less or
45 more set to the saw-teeth, as desired.

Upon the outer sides of the head A C and the jaws D G respectively are formed curved jaws J K, to serve as nippers for cutting wire, drawing nails, and other uses. With this construction the three pairs of jaws C D, G H, and
50 J K are drawn together by pressing the handles B E toward each other, so that they will all be closed when the tool is used as a ham-

mer, and will thus relieve the pivot F from the strain.

L is a punch, the shank of which has a screw-thread cut upon it, which screws into a screw-hole in the handle E, so that the said punch L can be set forward as it wears. The punch L shuts into a hole, M, in the other handle, B, to
55 do its work when the handles E B are pressed together. The end N of the handle E is curved inward, and has a tapered notch formed in it to adapt it to serve as a claw for drawing tacks. The end O of the handle B is flattened and tapered to
60 adapt it to serve as a screw-driver. The end part of the handle B is squared to fit into holes in the bases of the jaws P Q, which jaws are held in place by set-screws R, so that the said jaws can be adjusted at any desired distance
65 apart or detached or turned to the other side of the said handle.

The surface of the squared part of the handle B is grooved or roughened to give the set-screws R a firm hold upon it, so that the said
70 jaws P Q will be held from slipping when under a strain.

In the adjacent surfaces of the jaws C D, near their ends, are formed cross-grooves S, to receive the side edges of the head of a nail or
80 tack, as shown in Fig. 2, so that the tool can be used for starting a nail or tack in places where the said nail or tack cannot be held with the left hand when being started. After the nail or tack has been started the jaws C D are
85 withdrawn from the nail-head, and the said nail or tack is driven home with the hammer-head A.

Having thus fully described my invention, I claim as new and desire to secure by Letters
90 Patent—

1. As an improved article of manufacture, a combination-hammer constructed substantially as herein shown and described, consisting of the handles B E, the hammer-head A,
95 the pliers C D, the nippers J K, and the saw-set G H I, as set forth.

2. A hammer-head consisting of two sections arranged on separate handles, and provided respectively with the front jaws, J K, the top
100 jaws, C D, and rear jaws, G H, as shown and described.

JOHN STRASZER.

Witnesses:

GEO. STRASZER,
KINUTT SHOTWELL.