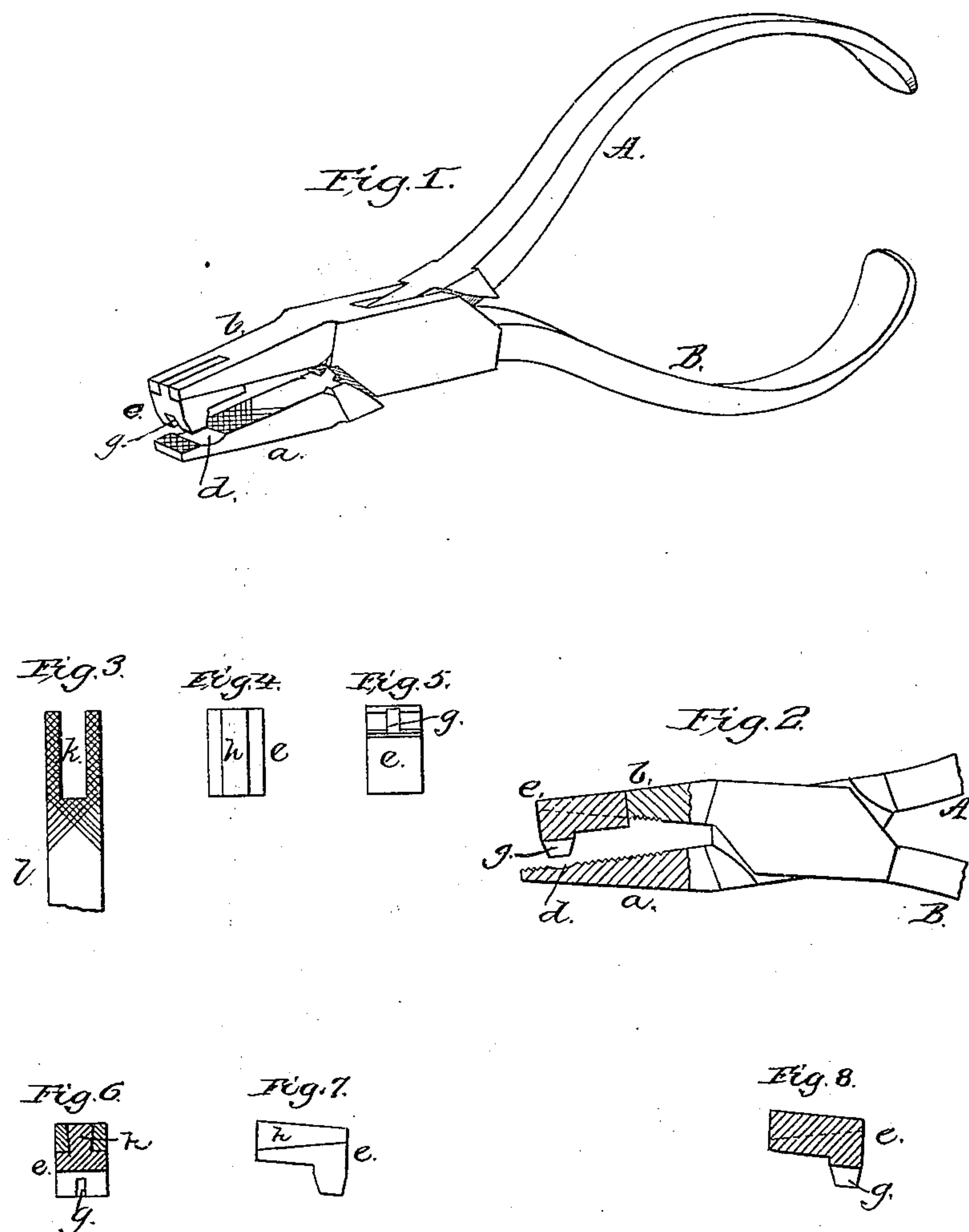


(No Model.)

A. G. LINNBAUM.
WATCH MAKER'S TOOL.

No. 246,522.

Patented Aug. 30, 1881.



WITNESSES

Villette Anderson.
Philip Masi.

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UNITED STATES PATENT OFFICE.

ANTHONY G. LINNBAUM, OF BALTIMORE, MARYLAND.

WATCH-MAKER'S TOOL.

SPECIFICATION forming part of Letters Patent No. 246,522, dated August 30, 1881.

Application filed July 7, 1881. (No model.)

To all whom it may concern:

Be it known that I, A. G. LINNBAUM, a citizen of the United States, a resident of Baltimore, in the county of Baltimore and State of Maryland, have invented a new and valuable Improvement in Watch-Makers' Tools; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a perspective view of my invention. Fig. 2 is a sectional detail view; and Figs. 3, 4, 5, 6, 7, 8 are detail views of parts thereof.

This invention has relation to pinchers for watch-makers' use, especially adapted for holding and applying case-springs; and the invention consists in the construction and novel arrangement of the parts, as hereinafter set forth.

In the accompanying drawings, the letter A designates one branch, and B the other, of a pair of pinchers, the holding end *a* of one branch being longer than the holding end *b* of the other, whereby the pinchers can better pick up an article, the larger branch slipping under the same. Opposite the end of the jaw *b* is formed, on the inside of the longer jaw *a*, the concave bearing *d*, and at the end of the shorter jaw *b* is formed, on the inside, a projection, *e*, which is provided with one or more notches, *g*, in the direction of the length of the jaw.

In order to facilitate the use of this instrument, a detachable jaw is usually provided, carrying the notched projection *e*.

In order to hold the case-spring for filing, its flange is seated in the notch *g* of the projection *e*, and the pinchers are then closed. The notched seat *g* is designed to fit the flange of the spring neatly, so that there will be little or no play. Several detachable jaws are usu-

ally provided with each pair of pinchers, said jaws having notches of different size to suit a variety of case-springs. The detachable jaw is usually made with a dovetail rib, *h*, arranged lengthwise on its back, and designed to be seated in a longitudinal slot or seat, *k*, formed in the end of the jaw-stock *l*.

When the instrument is used for applying or holding the case-spring in position in the watch-case the concave bearing *d* is brought against the outer surface of the case, and the projection *e* pressed against the spring from the inside.

It is not always essential that the jaws shall be made of different length, or that there shall be a concave bearing; but it is preferred that the construction shall involve these features, as they render the instrument better adapted for the purposes referred to.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. The case-spring pinchers having on one of the jaws a projection, *e*, provided with the notch *g*, and in the other jaw a concave bearing, *d*, the notch being opposite to the bearing, as set forth.

2. The case-spring pinchers having a short jaw provided with a notched projection, *e*, and a long jaw formed with a concave bearing, *d*, substantially as specified.

3. The case-spring pinchers having a detachable jaw formed with a projection, *e*, notched in the direction of its length, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ANTHONY G. LINNBAUM.

Witnesses:

THEO. MUGEN,
PHILIP C. MASI.