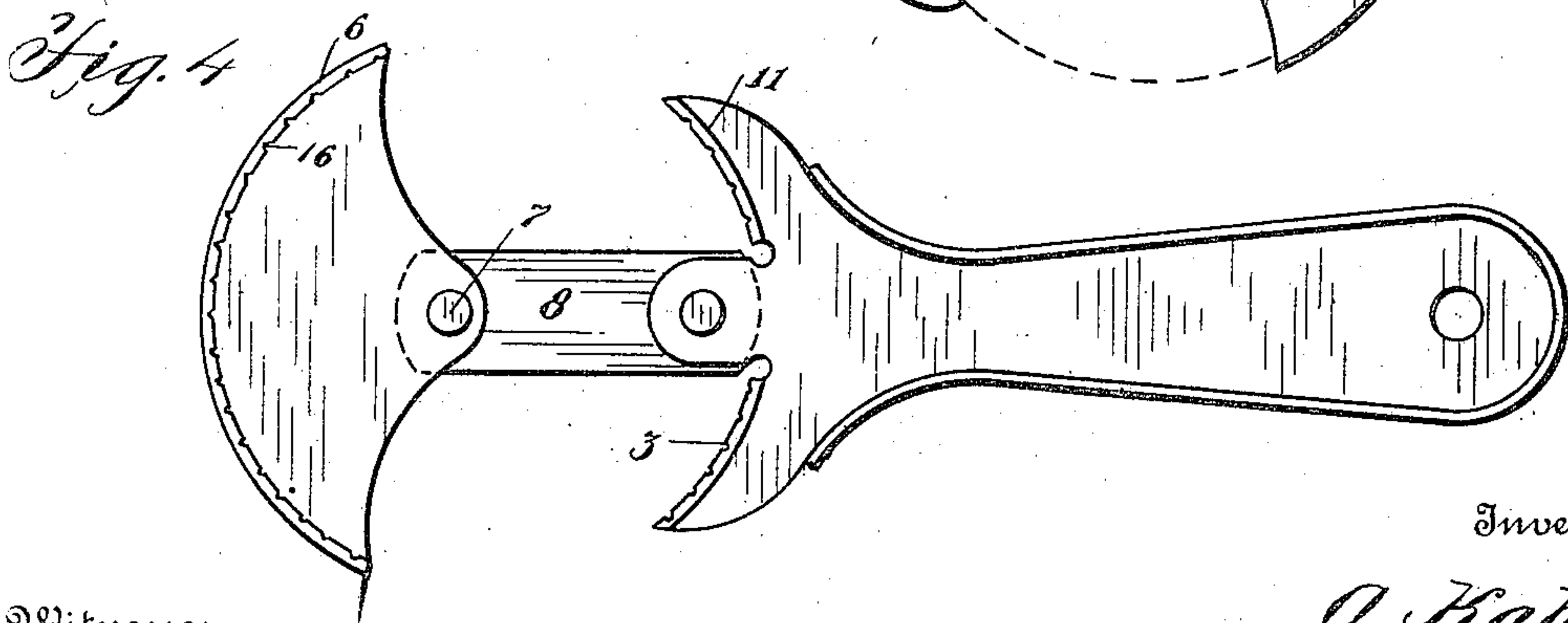
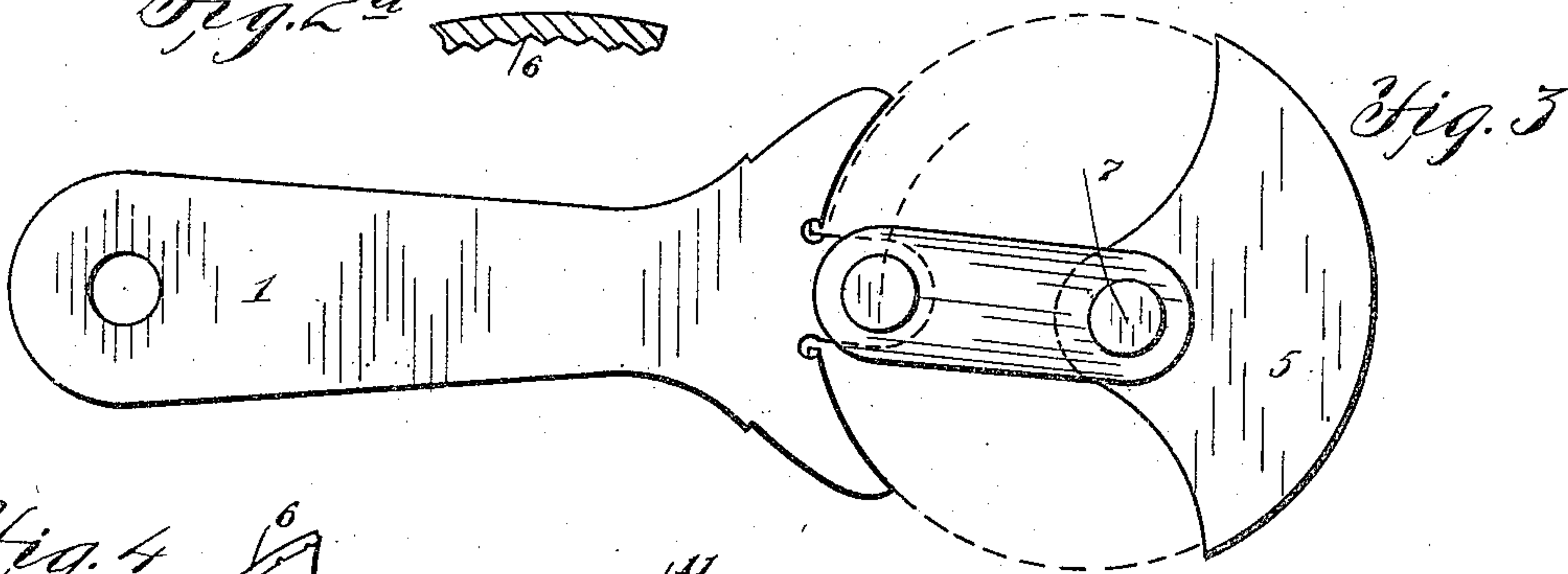
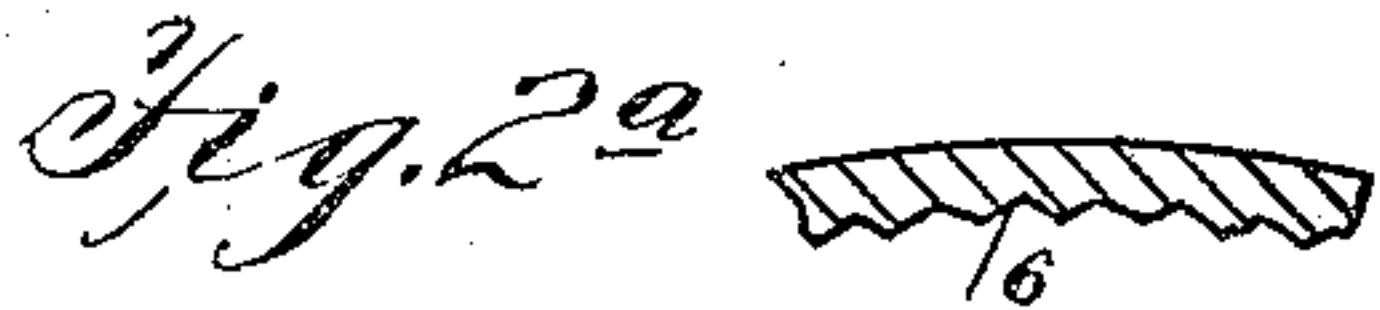
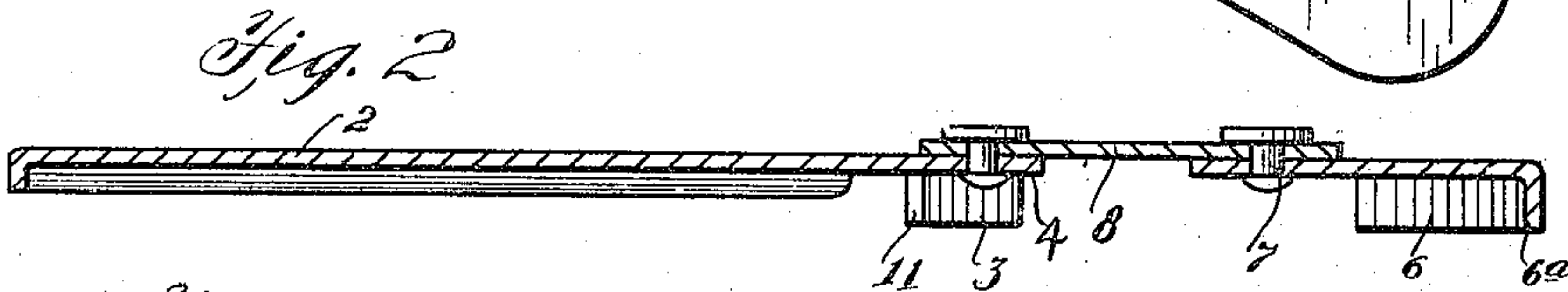
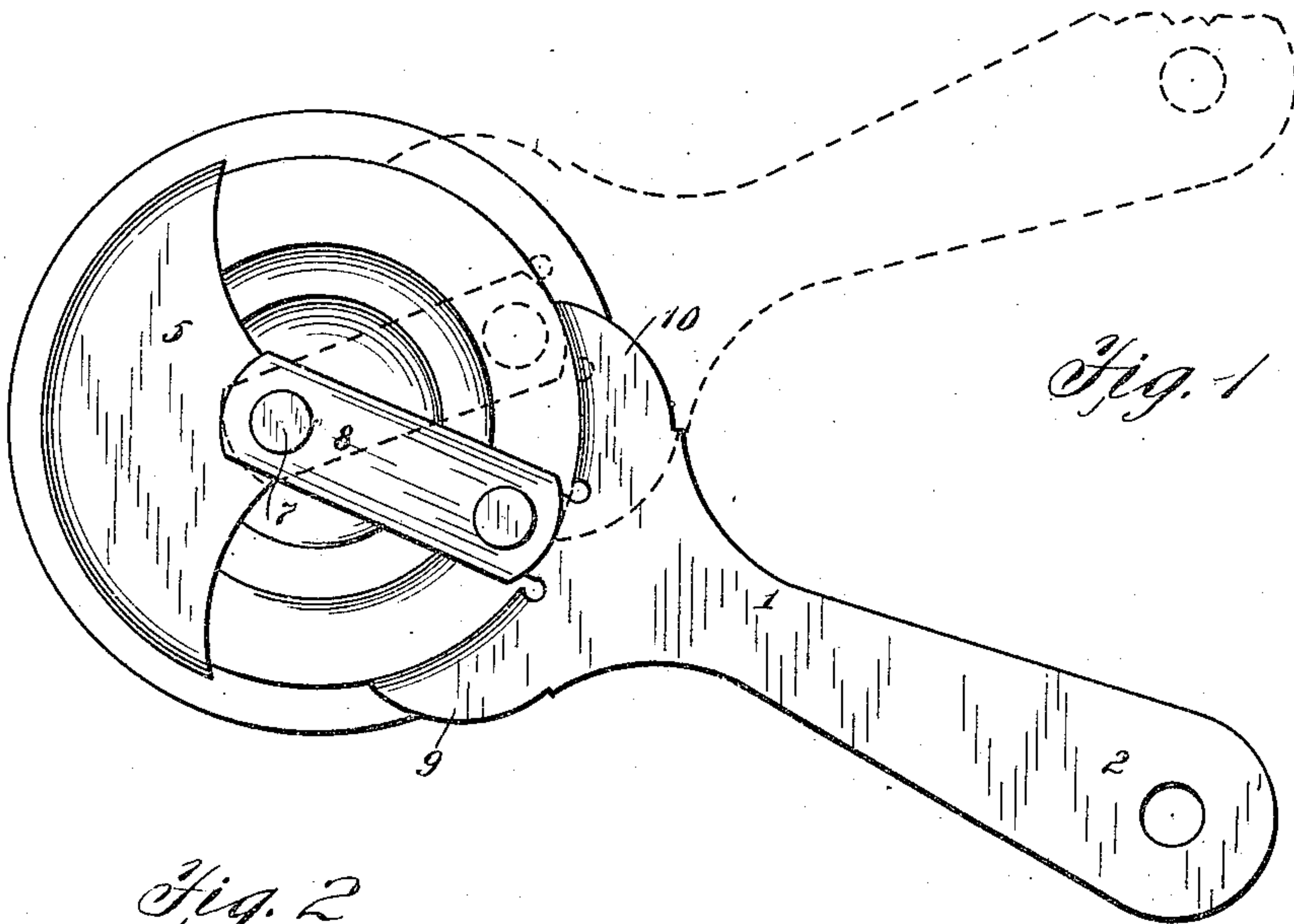


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FRUIT JAR WRENCH.  
APPLICATION FILED MAY 11, 1909.

953,467.

Patented Mar. 29, 1910.



Witnesses  
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# UNITED STATES PATENT OFFICE.

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## FRUIT-JAR WRENCH.

953,467.

Specification of Letters Patent. Patented Mar. 29, 1910.

Application filed May 11, 1909. Serial No. 495,229.

To all whom it may concern:

Be it known that I, ADOLPH KAHN, citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Fruit-Jar Wrenches, of which the following is a specification.

My invention relates to improvements in fruit jar wrenches in which the handle performs a double function, and the objects of my invention, are, first to provide a quick and convenient means of gripping and tightening or loosening a jar top without detriment thereto; second, to provide a fruit jar wrench that is positive and easy of operation; third, to provide a fruit jar wrench that is strong and durable; fourth, to provide a fruit jar wrench in which the tightness of grip increases in proportion to the resistance encountered, and fifth, a wrench that is moderate in the expense of manufacture. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of the wrench applied to a jar top in position for tightening or loosening the top, one position shown in dotted lines. Fig. 2 is a longitudinal sectional view taken through the middle of Fig. 1. Fig. 3 is a modification of Fig. 1, and Fig. 2<sup>a</sup> is a detail showing the corrugated gripping surface. Fig. 4 is a bottom plan view of the wrench.

Similar numerals refer to similar parts throughout the several views, in which the basal member, 1, comprising a handle 2, a gripping surface 3, and a connecting link 8, at which point it is linked to another gripping member 5, which has its gripping surface at 6, and its connecting point at 7, is pivotally hinged to 5 by a link 8, the gripping surfaces of 1 and 5 being properly formed and positioned to receive with ease and convenience, the top portion of a standard size fruit jar, as in Fig. 1, in which 18 is the jar top. The member, 1, constitutes a three-way lever, having a common fulcrum at 4, a power point at 2, and points of resistance at 9, 10 and 11.

The manipulation of the wrench is as follows;—The wrench is first applied to the jar top in the manner shown in Fig. 1, and, by forcing the handle 2, in a direction of the circumference of the jar, the link 8 draws the two gripping surfaces 6<sup>a</sup> and 11 tightly

against the circumference of the jar top. It is readily seen that the more resistance offered by the jar top, in being tightened or loosened, the more power must be applied to the handle, and consequently, the more grip and pressure is applied to each side of the jar top.

This wrench being made of moderately thin and flexible metal, and there being a slight looseness at the link connections, a moderate downward pressure tends to shorten the distance between the bottom of the two gripping surfaces at 6<sup>a</sup> and 11; thereby rendering the grip more positive. The corrugations upon the gripping surface, 6, decreases the tendency to slip, which also renders the grip more positive.

As will be observed in Fig. 1, the link 8, is of such a short length as to prevent the gripping member integral with and on a line with the center of the handle, from reaching the center of a jar top, thus causing the gripping surfaces to close in upon the jar top as the handle is forced toward the center thereof.

I do not limit my invention to the exact construction heretofore shown and described; but, without departing from the spirit of my invention, I show in Fig. 3, a modification in which the pivotal point 7, in the member 5, is placed eccentrically and off of the center line whereby it is evident that a still more positive grip is obtained when tightening the jar top.

Being aware that prior to my invention there existed a fruit jar wrench having a combined handle and gripping lever pivotally connected to a member having a clamping surface, I do not broadly claim such as my invention.

What I claim and desire to secure by Letters Patent, is,—

1. A jar top wrench having opposing gripping members said members being connected with a link member, the gripping surface of said gripping members being corrugated, one of said gripping members having an operating lever integral therewith, said link member being of a length to prevent the said gripping member with an operating lever from reaching the center of a jar top.

2. A jar top wrench consisting of two gripping members and a link member, one of said gripping members having a handle integral therewith, said link member being of a length to prevent said handle gripping

member from reaching the center of a jar top.

3. A jar top wrench adapted to engage jar tops of various sizes without adjustment, said wrench consisting of a gripping member, a link member and a handle member, said handle member having an additional gripping member integral therewith, said link member being adapted to prevent said

handle member from reaching the center of the jar top.

In testimony whereof I affix my signature, in presence of two witnesses.

ADOLPH KAHN.

Witnesses:

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