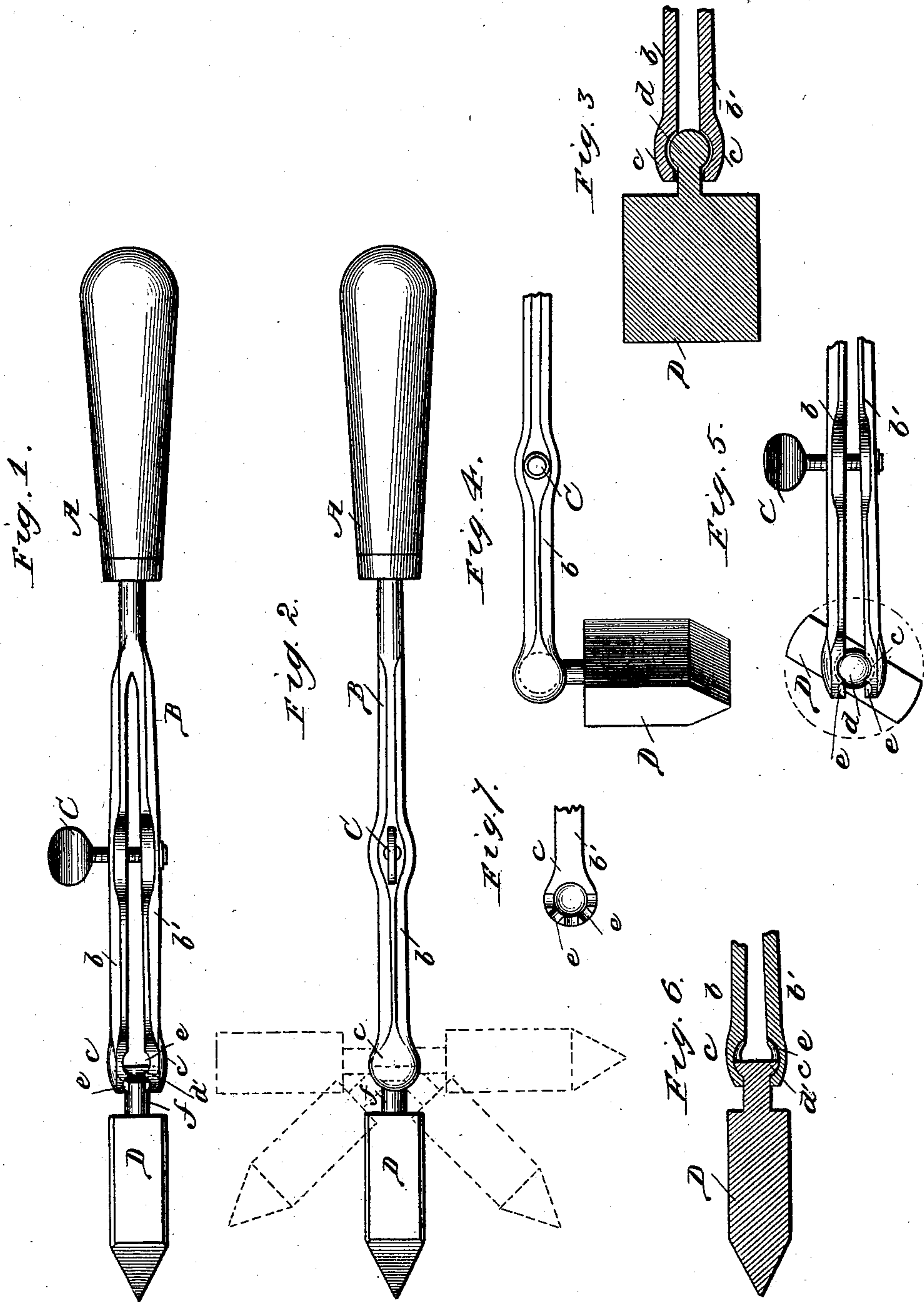


(No Model.)

H. BRASCH.  
SOLDERING TOOL.

No. 365,293.

Patented June 21, 1887.



Witnesses.  
H. Rossiter  
A. Maritz.

Inventor  
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# UNITED STATES PATENT OFFICE.

HENRY BRASCH, OF CHICAGO, ILLINOIS.

## SOLDERING-TOOL.

SPECIFICATION forming part of Letters Patent No. 365,293, dated June 21, 1887.

Application filed April 12, 1887. Serial No. 234,542. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY BRASCH, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Soldering-Tools, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention has for its object to provide a soldering-tool so constructed that the soldering-copper can be readily removed from the handle to be exchanged for another, for the purpose that a single handle will answer for  
15 differently shaped coppers, and in which the copper can be adjusted to different angles and secured in the handle to be either rigid therewith or pivotal therein; and for that purpose my invention consists of the novel devices and combinations of devices hereinafter described and specifically claimed.

20 In the accompanying drawings, Figure 1 represents a plan view, and Fig. 2 a side elevation, of the tool complete; Fig. 3, a longitudinal section of the end of the grasping-jaws of the handle with the copper held therein; Fig. 4, a side elevation, and Fig. 5 a plan, of the grasping-jaws of the handle with the copper held pivotally therein; Fig. 6, a longitudinal section with the soldering-copper somewhat modified; and Fig. 7 is an inward  
25 face view of a prong-head of the handle-shank.

Corresponding letters in the several figures of the drawings designate like parts.

30 A is the wooden handle, into which is secured the pointed end of shank B, that is bifurcated, forming two spring-prongs, *b* and *b'*, drawn toward each other by a thumb-screw, C, tapped through about the center of prong *b*, and pivotally secured with its shouldered point in prong *b'* by a washer riveted upon its end. Each prong *b b'* has at its end a circular head, *c*, which heads are concaved on their opposing faces, jointly forming a ball-  
35 socket for the globular-shaped head *d*, formed on the end of the soldering-copper D, oppo-

site to the pointed or chisel-shaped working end of the same. The annular edges around the concave of each head *c* are provided with five (more or less) segmental notches, *e*, engaging the neck *f* of the soldering-copper in such a manner that said copper can either be secured on a straight line with the handle, at right-angle position, or on an angle of forty-five degrees with such handle, as shown by dotted lines in Fig. 2. These notches *e* afford a more rigid hold for the copper by clamping after adjustment, and are also provided for the purpose of pivotally connecting the copper by contracting the jaws *c* just sufficiently upon head *d* and neck *f* to allow pivotal movement of the copper around its axis, as shown by Figs. 4 and 5, which is desirable when the tool is to be used around circular or cylindrical objects to accommodate itself to the  
40 varying tangential angles. The head of the soldering-copper may be made semi-globular as well, as shown in Figs. 1 and 6, and marked *d'*.

A soldering-tool thus made will be complete for all sorts of work tinner and plumbers may have to do, the copper being readily exchangeable and adjustable to the desired angular position, to be either rigid with its handle or pivotal therein.

What I claim is—

1. A clamp for holding a soldering-copper, consisting of a bifurcated shank having a compressing means and concaved ends with notched edges, as set forth.

2. A soldering-copper provided with a globular head, connected to it by a cylindrical neck, in combination with the handle and bifurcated shank arranged with a clamping-screw, and having concaved ends with notched edges, substantially as set forth, to operate as specified.

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

HENRY BRASCH.

Witnesses:

WM. H. LOTZ,  
A. MARITZEN.