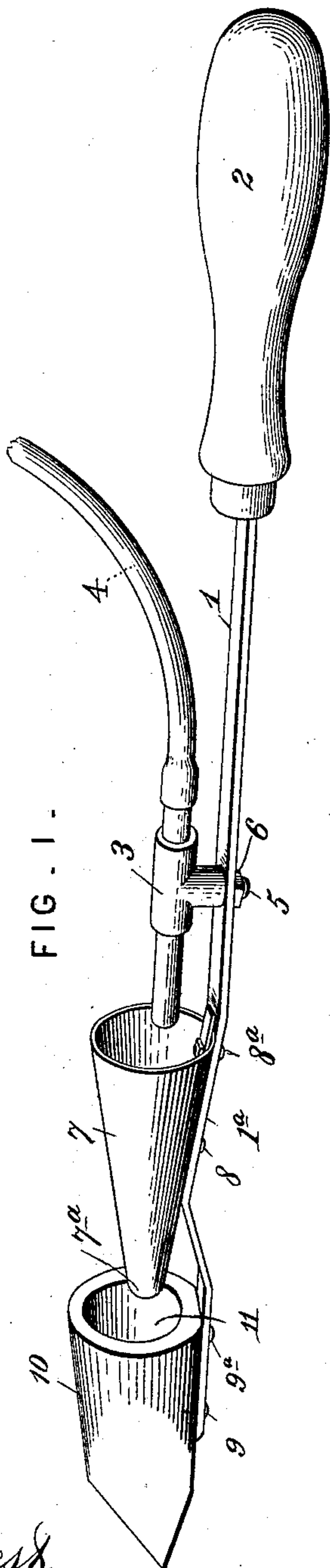


(No Model.)

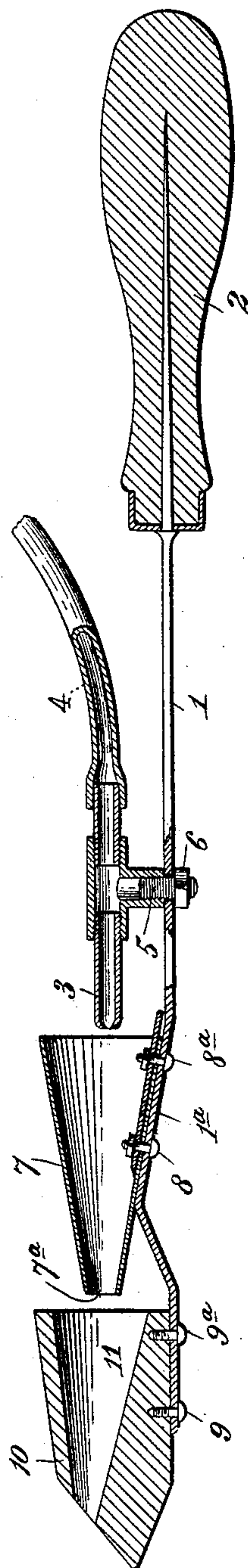
F. BARR.
SOLDERING IRON.

No. 435,274.

Patented Aug. 26, 1890.



Attest.
Geo. T. Smallwood,
Geo. L. Wheelock



Inventor:
Frederic Barr,
By Knight Bros.
Atty

UNITED STATES PATENT OFFICE.

FREDERIC BARR, OF TACOMA, WASHINGTON.

SOLDERING-IRON.

SPECIFICATION forming part of Letters Patent No. 435,274, dated August 26, 1890.

Application filed April 18, 1890. Serial No. 348,464. (No model.)

To all whom it may concern:

Be it known that I, FREDERIC BARR, a citizen of the United States, residing at Tacoma, in the county of Pierce and State of Washington, have invented certain new and useful Improvements in Soldering-Irons, of which the following is a specification.

My invention relates to a soldering-iron, and has for its object the heating of the iron by applying to it a continuous flame obtained from either gas or gasoline.

My invention consists in certain features of novelty to be hereinafter fully described, and then particularly pointed out in the claims.

In order that my invention may be fully understood, I will proceed to describe the same with reference to the accompanying drawings, in which—

Figure I is a perspective view thereof, and Fig. II is a longitudinal section.

In the drawings, 1 represents a wrought-iron bar bent and shaped as shown, with an inclined portion 1^a; 2, the wooden handle, and 3 a gas-tip to which is connected the tubing 4, that conducts gas or gasoline to the tip. The tip is formed with a post or stud 5, that is reduced at its lower end where it projects through the bar 1 and receives a nut 6, that is screwed thereon. A distance in front of the tip 3 is a cone 7, the open base of which is in juxtaposition to the tip and the open apex of which is remote to it. It is constructed preferably of Russian iron.

8 8^a are fastenings by means of which the cone is secured to the inclined portion 1^a of the bar. The gas is ignited at the apex 7^a of the cone.

At the outer end of the bar 1 and secured thereto by suitable fastenings 9 9^a is the copper soldering-point 10, that has a conical opening 11, which receives the flame issuing from the apex of cone 7, whereby the soldering-point is heated.

Having thus described my invention, what I claim as new therein, and desire to secure by Letters Patent, is—

1. In a soldering-iron, the combination of a bar provided with a gas-tip, an open cone into which the gas passes from the tip and having its base in juxtaposition to the tip, and the soldering-point in front of the apex of the cone, whereat the gas is ignited, substantially as set forth.

2. In a soldering-iron, the combination of a bar provided with a gas-tip, said bar having an inclined portion in front of the tip, an open cone secured to the inclined portion of the bar with its base in juxtaposition to the tip, and the soldering-point in front of the apex of the cone, whereat the gas is ignited, substantially as set forth.

3. In a soldering-iron, the combination of a bar provided with a gas-tip, an open cone into which the gas passes from the tip and having its base in juxtaposition to the tip, and the soldering-point having a conical hollow tapering from near the apex of the cone outwardly, substantially as set forth.

FREDERIC BARR.

Witnesses:

JOSEPH KRAMER,
A. A. KNIGHT.