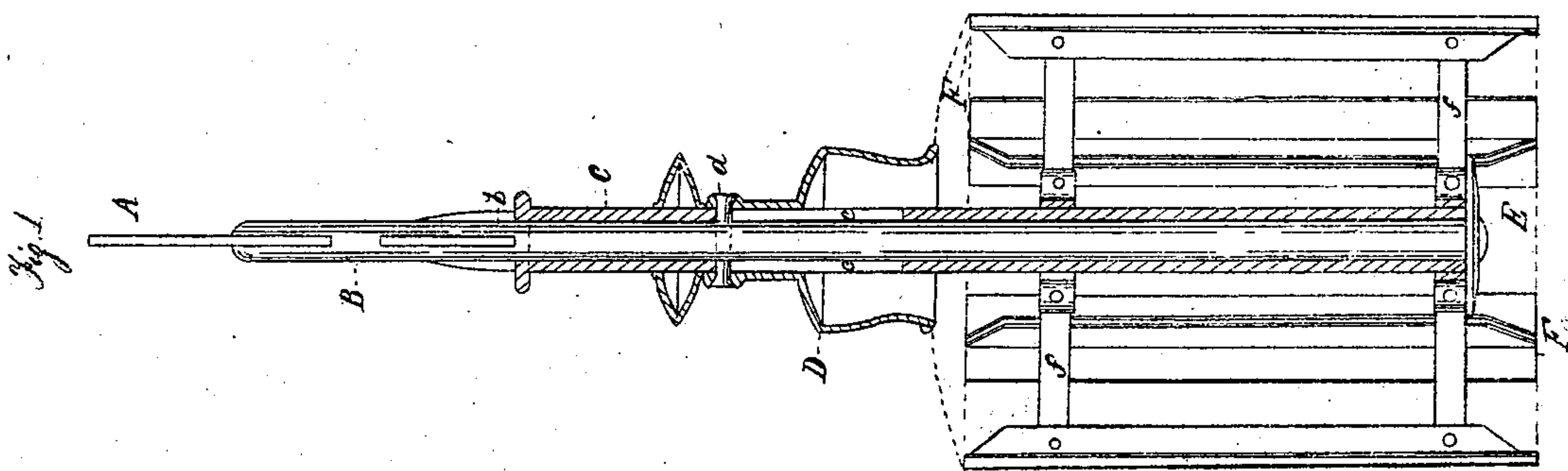
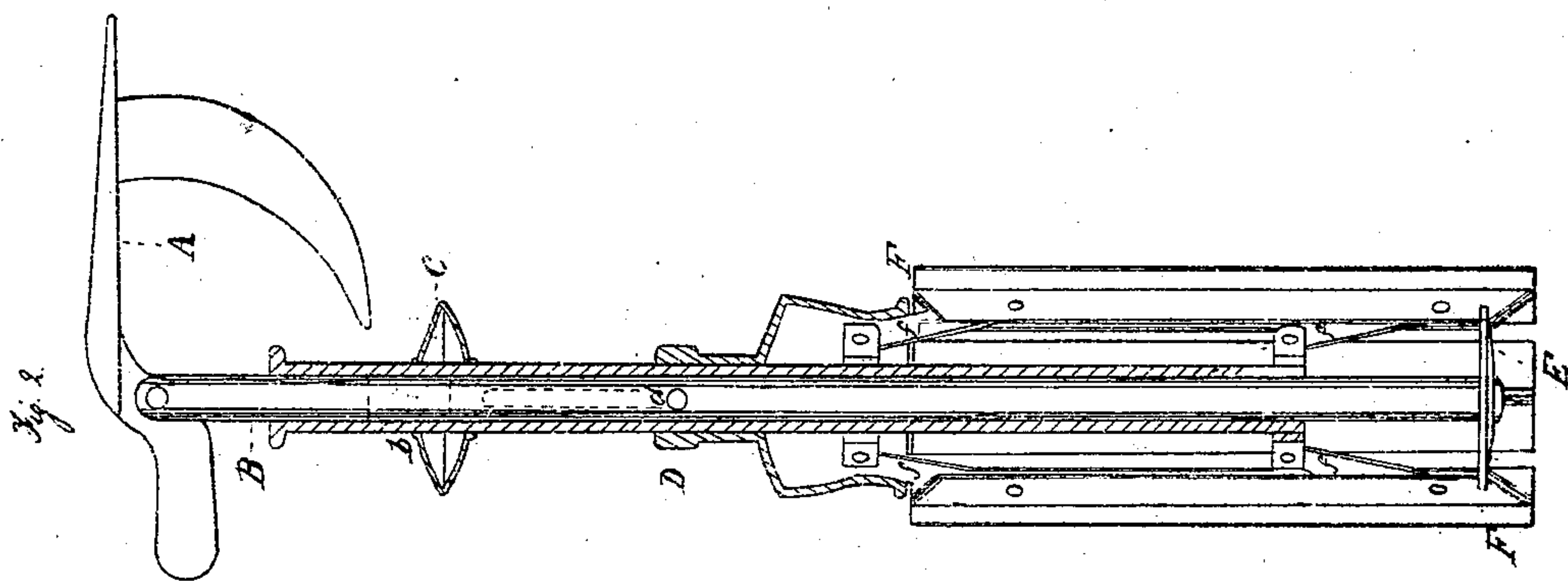
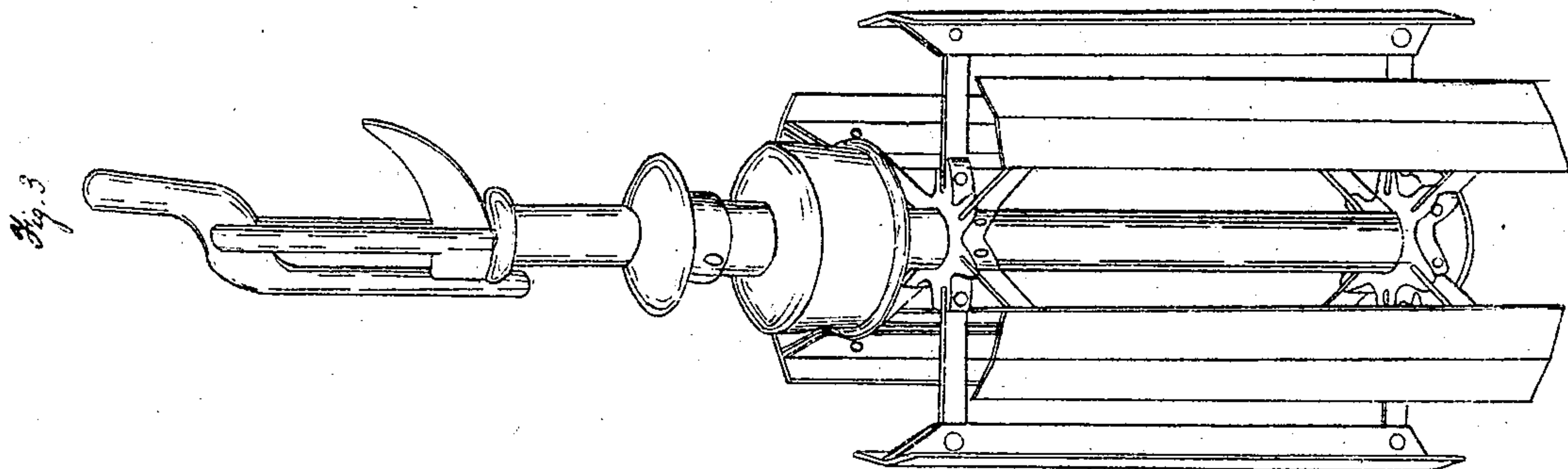


P. Rees.

Soldering Sheet-Metal Cans.

N^o 72904

Patented Dec. 31, 1867.



Witnesses.
D. L. Imprie-
Sam J. Hamulton.

Inventor
Philip Rees

United States Patent Office.

PHILIP REES, OF BRIDGEWATER, PENNSYLVANIA.

Letters Patent No. 72,904, dated December 31, 1867.

IMPROVEMENT IN DEVICE FOR SOLDERING SHEET-METAL CANS.

The Schedule referred to in these Letters Patent and making part of the same:

Be it known that I, PHILIP REES, of the borough of Bridgewater, in the county of Beaver, and State of Pennsylvania, have invented a new and useful Machine for the purpose of securing together the different parts of Fruit-Cans, &c., thereby facilitating the process of soldering; 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 drawings.

Figure 1 is a longitudinal section, showing the parts when adjusted.

Figure 2, also a longitudinal section, representing it with sides compressed.

Figure 3, a perspective view.

The machine (made to any required size) is composed of iron or other suitable material, and consists of a rod, B, sliding within a tube or cylinder, C. To the outside of this cylinder are hinged radiating arms *ff*, &c., to the other extremities of which are also hinged vertical plates F F, &c. Upon the outside of the cylinder, and above the upper set of arms, is the compressor D, attached to the rod B, by means of a pin, *d*; passing through the mortises *c c*, and moving with said rod. The compressor is used for closing together the arms *ff*. At the top of the rod is the latch A, passing through a mortise, *b*, in it, and used for maintaining the extension of the arms, after the machine has been placed within the can. At the other extremity is a disk, E, for moving said arms in a direction counter to that of the compressor.

The operation is as follows: The parts of the can having been placed together, the rod B is forced down, folding the vertical plates F F. The machine is then introduced through the small opening at the top. The rod is then drawn up, raising the arms by means of the disk E, and pressing the plates F F outward against the inside of the can. The latch A is then passed through the mortise *b*, and the parts are held firmly until the joining of them is completed, when it is readily withdrawn.

I am aware of forming cylinder glass into an oblong shape, with two flat sides, by means of a machine or device patented by William P. Walters, July 10, 1855, No. 13,245. This I do not claim. The holding of the several parts of the can together while soldering, I do not claim; nor do I claim separately any of the parts of the above machine; but I do claim the combination and arrangement of the following parts, to wit:

The rod B, the cylinder C, radiating arms *ff*, &c., hinged vertical plates F F, &c., the compressor D, the pin *d*, the mortises *c c*, the latch A, and mortise *b*, the disk E, or their equivalents, constructed, arranged, and operated in the manner and for the purpose shown and described.

PHILIP REES.

Witnesses:

D. L. IMBRIE,

GEO. W. HAMILTON.