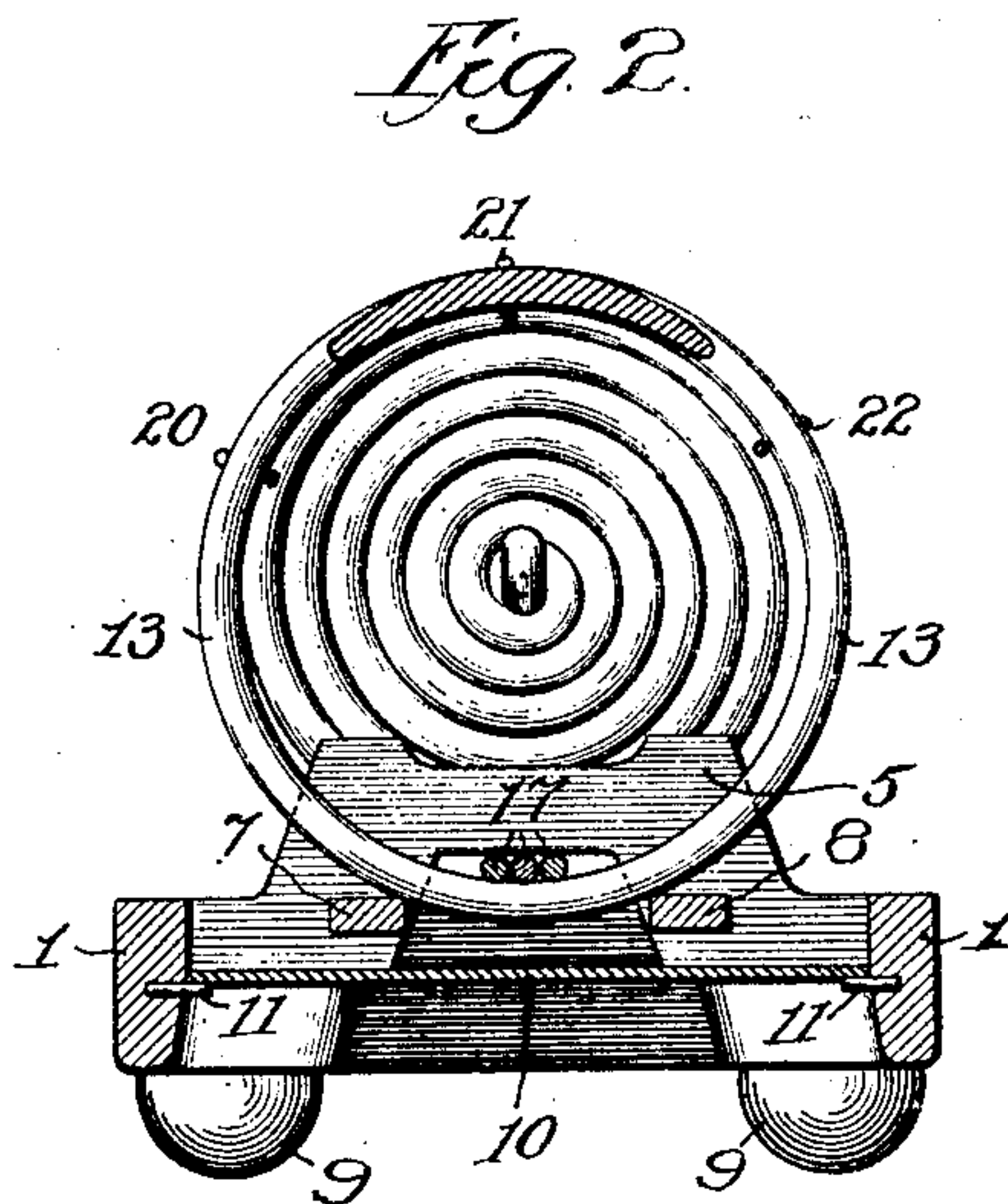
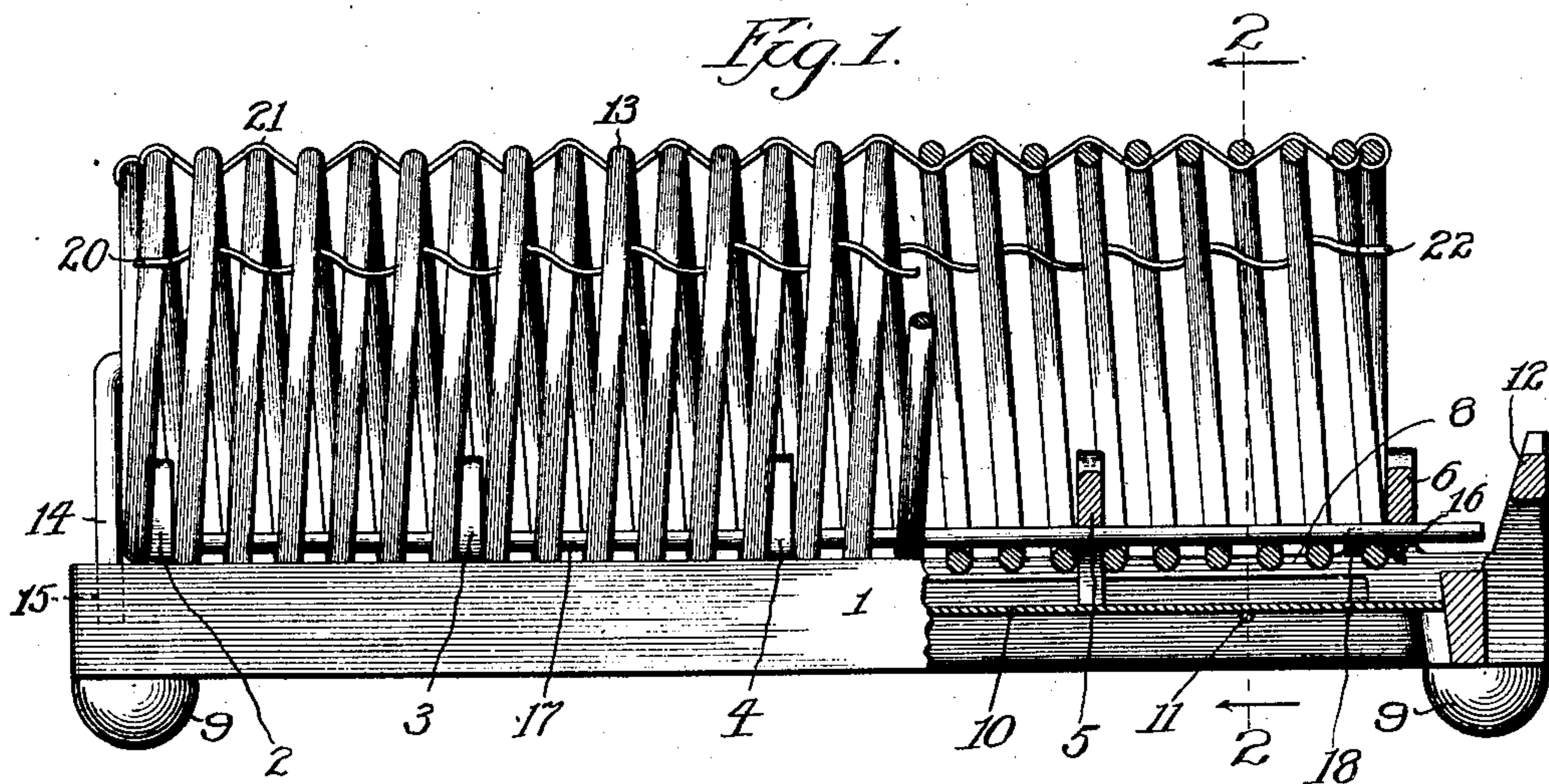


No. 880,871.

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J. M. FELL.
HOLDER FOR SOLDERING IRONS.

APPLICATION FILED MAY 27, 1907.



Witnesses:
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UNITED STATES PATENT OFFICE.

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HOLDER FOR SOLDERING-IRONS.

No. 880,871.

Specification of Letters Patent.

Patented March 3, 1908.

Application filed May 27, 1907. Serial No. 375,944.

To all whom it may concern:

Be it known that I, JOHN M. FELL, citizen of the United States, residing at Roslindale, in the county of Suffolk and State of Massachusetts, have invented a certain new and useful Improvement in Holders for Soldering-Irons, of which the following is a full, clear, concise, and exact description.

In the use of soldering irons and, more particularly, those which are electrically heated, it has been found desirable to provide a special holder into which the iron may be inserted to remain while heated, though not in actual service.

Speaking generally, my invention consists of a cylindrical receptacle formed of a helical coil of wire, and mounted on a base, which base may be a casting provided with transverse arches or ribs raised to form supports for the soldering iron, and also to serve as a means for securing the receptacle in place. The base is provided with longitudinal bars, one on each side, and preferably integral with the arches, on which bars the convolutions of the coil rest and are supported when the coil is in place upon the bars. The inner and lower portion of the cylinder or receptacle comes slightly below the under portion of the arches, thus affording space for inserting a rod or key longitudinally in the bottom of the cylinder under the arches to clamp the cylinder in place. The convolutions of the coil at the respective ends of the cylinder are secured against longitudinal movement and the ends of the wire forming the coil are secured to the base. I preferably thread three stay-wires longitudinally through the convolutions of the coil to prevent the different convolutions from being spread apart. Under the longitudinal bars of the base sufficient space is left to permit the removal of any solder which may be carried into the receptacle upon the iron and dropped therefrom. Rubber feet are preferably provided at the four corners of the casting. The bottom of the base is preferably of sheet iron.

My invention will be more readily understood by reference to the accompanying drawing, in which

Figure 1 is a longitudinal elevation illustrative of a soldering iron holder embodying my invention, a portion thereof being broken away; and Fig. 2 is a view of the same taken on line 2—2 of Fig. 1.

Like parts are designated by similar letters of reference in both figures.

The frame 1 is preferably a casting, the arches or ribs 2, 3, 4, 5 and 6 thereof extending transversely as shown, and serving as supports for the soldering iron, and as anchors for the key which holds the coil in place. The bars 7, 8 extend longitudinally of the frame between the arches and serve to stay the ribs and support the coil. The lower part of the base is formed with ledges adapted to support a sheet iron bottom designed to catch and hold any solder which falls from the iron. The top of the base along the sides is preferably open to allow the base to be readily emptied of whatever dirt or solder may collect. Rubber feet 9 are provided as shown, in a well-known manner.

The bottom of the base consists preferably in the sheet iron plate 10 inserted from below and held in place by pins 11, or in some other well-known way. The arch 12 at the end of the casting is raised somewhat higher than the other arches, its purpose being to serve as a support for the soldering iron when inserted.

The coil forming the cylindrical receptacle 13 may be of Bessemer wire of say five-thirty-seconds of an inch in diameter. This coil is formed upon a mandrel in a well-known way. The end 14 of the wire at the closed end of the cylinder is left of sufficient length to be inserted as shown in the hole provided in the frame as indicated at 15 in Fig. 1. The opposite end 16 of the wire of the coil is bent outwardly so as to terminate under the arch 6 as shown, and be held in place. After the coil is placed upon the frame with its convolutions resting upon the bars 7, 8, the key or locking bar 17 is inserted. This key or locking bar as shown in my embodiment of the invention consists in three wires. It will be observed that the under portion of the arch 12 is raised above the line of the lower edges of the arches 2 to 6, so as to allow of the insertion of the wires 17, which serve to securely clamp the helical cylinder in place. As already stated, the under surfaces of the arches 2, 3, 4, 5 and 6 are of just sufficient height above the lower inner surface of the cylinder to permit said wires forming the key to be forced in. These wires 17 fit tightly in place and yield as they are driven in under the arches and thus, after

they are in place, their resiliency aids in securely clamping and holding the convolutions of the wire forming the cylinder compressed against the bars 7, 8. It will be observed that lugs 18, are provided near the arch 6 and that the first convolution of the wire comes between these lugs and said arch 6.

Through the convolutions of the coil forming the cylinder 13, I thread wires 20, 21 and 22 these wires being soldered at either end to a convolution of the coil and preferably also centrally, such wires threaded through the convolutions of the coil serving to keep the same from being displaced.

I claim:—

1. The cylindrical receptacle consisting of the helically wound wire mounted upon a base and clamped thereto and adapted to receive a soldering iron, and supports for the soldering iron erected upon the base and extending between convolutions of the coil.

2. The casting provided with transverse arches and with longitudinal bars, in combination with the cylindrical receptacle formed of wire, the convolutions of said wire resting upon said bars, and a key adapted to be thrust under the arches and along the wires of the said cylindrical receptacle to clamp the same in position, substantially as described.

3. In a holder for a heated soldering iron, the combination with a casting forming the frame of the base, longitudinal supports thereon, a cylindrical holder or guard resting on said supports, the ends of the wire forming said guard being secured, and the convolutions thereof braced, wires threaded there-through to insure rigidity, transverse holding members erected on said base and cast integral therewith, said holding members extending upwardly through the convolutions of said guard and adapted to support the soldering iron centrally thereon, said base immediately under said guard being open to permit of the ready removal of any solder that may drop from the iron, and a key passing under said holding members and inside the coil, to clamp the same in position, substantially as described.

4. A holder for a heated soldering iron consisting of a base, ribs extending upwardly from said base and adapted to serve as sup-

ports for the iron, in combination with a coiled inclosure mounted on said base and securely clamped thereto, the base immediately under the inclosure being open to permit of the ready removal of any solder that may drop from the iron.

5. The holder for a soldering iron consisting in the combination with the base, of a wire coil clamped thereto, said coil being braced by one or more wires threaded there-through, substantially as described.

6. A holder for a soldering iron consisting of a base, longitudinal supports thereon, a helical coil of wire adapted to rest upon said supports, transverse holding members mounted upon said base, and rising between the convolutions of the coil, and a key passing under said holding members and inside the coil, substantially as described.

7. The combination with the casting forming the frame of the base, of a plate forming the bottom thereof, transverse arches and longitudinal bars between the arches, the protecting coil resting on the said bars, and means for clamping the same in place, as and for the purpose specified.

8. In a holder for soldering irons, the combination with a base, of a holder mounted thereon, said holder being formed of helically-wound wire, said wire having its ends secured and the convolutions thereof braced, substantially as described.

9. A holder for soldering irons comprising a base, supports for the iron raised upon said base, in combination with an open wire inclosure or guard for the soldering iron, substantially as described.

10. A soldering iron holder comprising a base, a cylindrical holder or guard mounted thereon and supports for the soldering iron extending from the base through the convolutions of the inclosing guard and adapted to support the said soldering iron centrally in said inclosure substantially as described.

In witness whereof, I, hereunto subscribe my name this seventeenth day of May A. D., 1907.

JOHN M. FELL.

Witnesses:

GEO. WILLIS PIERCE,
JOSEPH A. GATELY.