G. H. PERKINS.

Apparatus for Facilitating the Filling, Soldering, and Handling of Cans.

No. 167,356. Patented Aug. 31, 1875.

Fig. 1.

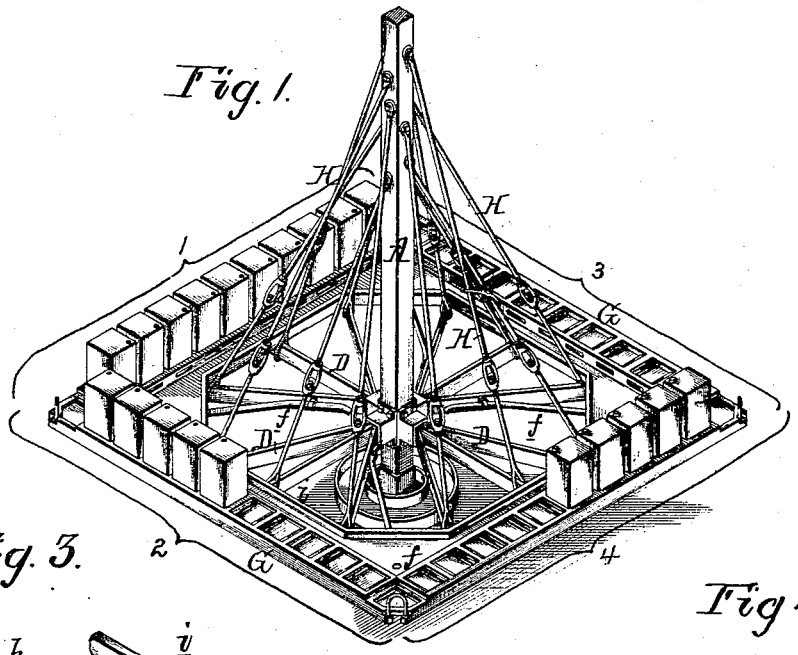


Fig. 3.

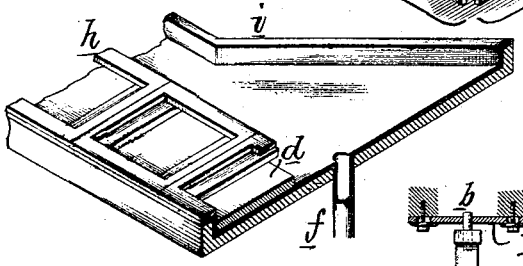


Fig 4.

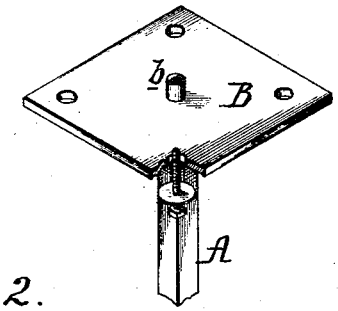
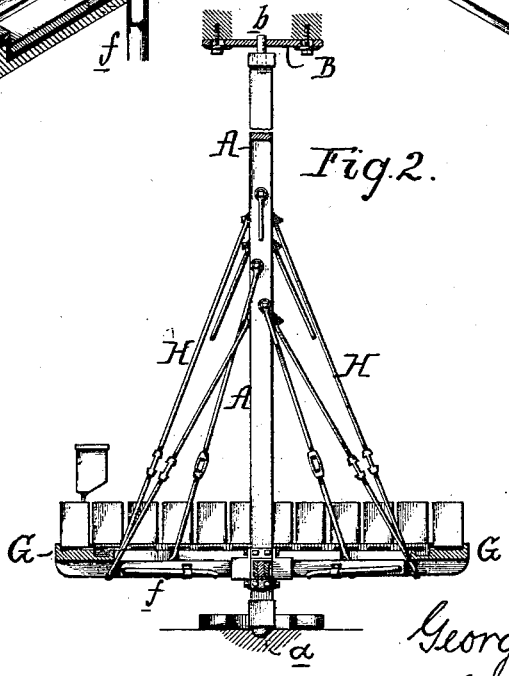


Fig. 2.



Witnesses,
E. H. Eckfeldt
Harry Smith

George H. Perkins
by his Attorneys
Howson and Sons

UNITED STATES PATENT OFFICE.

GEORGE H. PERKINS, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO HIMSELF AND JOSEPH LE COMTE, OF NEW YORK CITY, AND ATLANTIC REFINING COMPANY, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN APPARATUS FOR FACILITATING THE FILLING, SOLDERING, AND HANDLING OF CANS.

Specification forming part of Letters Patent No. **167,356**, dated August 31, 1875; application filed March 24, 1875.

CASE T.

To all whom it may concern:

Be it known that I, GEORGE H. PERKINS, of Philadelphia, Pennsylvania, have invented an Apparatus for Facilitating the Filling, Soldering, and Handling of Cans, of which the following is a specification:

The object of my invention is to facilitate the filling, soldering, and handling of cans for containing oil; and this object I attain by the apparatus which I will proceed to describe, reference being had to the accompanying drawing, in which—

Figure 1 is a perspective view of the apparatus; Fig. 2, a vertical section of the same; and Figs. 3 and 4, detached perspective views of parts of the apparatus.

A is a vertical shaft, having its lower bearing *a* at or near the floor of the room in which the apparatus is situated, and its upper bearing *b* in a plate, B, which is secured to the under side of the joists of the floor above by bolts passing through enlarged holes in the said plate, so that the latter admits of lateral adjustment, for the purpose of insuring the proper vertical position of the shaft. From this shaft, at a short distance above the floor, radiate a number of arms, D, for supporting the four-sided platform G, which is connected to the shaft by a number of diagonal stays, H, each stay having a screw-coupling, so that the platform can be readily adjusted to a horizontal position.

It should be understood that the four sides of the platform are so connected together at the corners of the same that the connections will yield to a limited extent, for the purpose of insuring a nice adjustment of all sides of the said platform in a horizontal position.

To each of the four sides of the platform is secured a board, *d*, and to the latter a frame forming a series of cells for the reception of the oil-cans; or I place on the board a series of metal frames, *h*, each forming a pocket for receiving the lower end of the can, and each admitting of separate adjustment on the platform, and the can bearing on the lower flange of the frame, so as to be elevated above the top of the platform. (See enlarged perspective view, Fig. 3.)

The inner edge of the platform is bounded by a flange, *i*, which, as well as the platform itself, is lined with sheet metal, and forms a shallow trough for receiving the drippings from the cans, the said drippings passing from the platform through a pipe, *f*, to a trough at the base of the shaft, from which trough the oil may be removed from time to time.

The above-described apparatus is intended for use in establishments for putting up oils in tin cans for transportation, and the method of using the apparatus is as follows: While the cans on the side 1 of the platform are being filled with the proper quantity of oil, an attendant or attendants are engaged in depositing empty cans on the cells on the side 2 of the platform, while other operatives are engaged in soldering the nozzles on the cans of a row on the side 3, and other attendants are removing the filled and soldered cans from the side 4. When these four duties have been accomplished the platform is turned to the extent of one-fourth of a revolution, so that the side 2, with its row of empty cans, may be beneath the filling apparatus; the side 1, with its row of cans, being in a proper position for the services of the solderers, and the side 3, with its filled and soldered cans, in a proper position for their removal to an adjoining platform or track, while the side 4 is in a position to receive the attention of those who have to place the empty cans on the platform. Thus the several duties are performed simultaneously, and without any interruption other than that which occurs in turning the platform from time to time.

It is not essential that the platform should be four-sided. It may, for instance, be annular; but I prefer to make it with four sides.

I claim as my invention—

1. A can filling and soldering machine in which a platform, G, having a number of straight sides, is provided, with cells arranged

in said sides to receive and securely retain two or more series of cans, all as set forth.

2. The within-described platform, consisting of four or other desired numbers of sides, connected to the vertical shaft A by arms D and adjustable tie-rods H, all substantially as set forth.

3. The shallow trough on the platform for receiving the drippings from the cans, in combination with the discharge-pipe *f* and the trough at the base of the shaft, all substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE H. PERKINS.

Witnesses:
HARRY SMITH,
HUBERT HOWSON.