

J. H. PERKINS.
Seaming-Machines.

No. 146,947.

Patented Jan. 27, 1874.

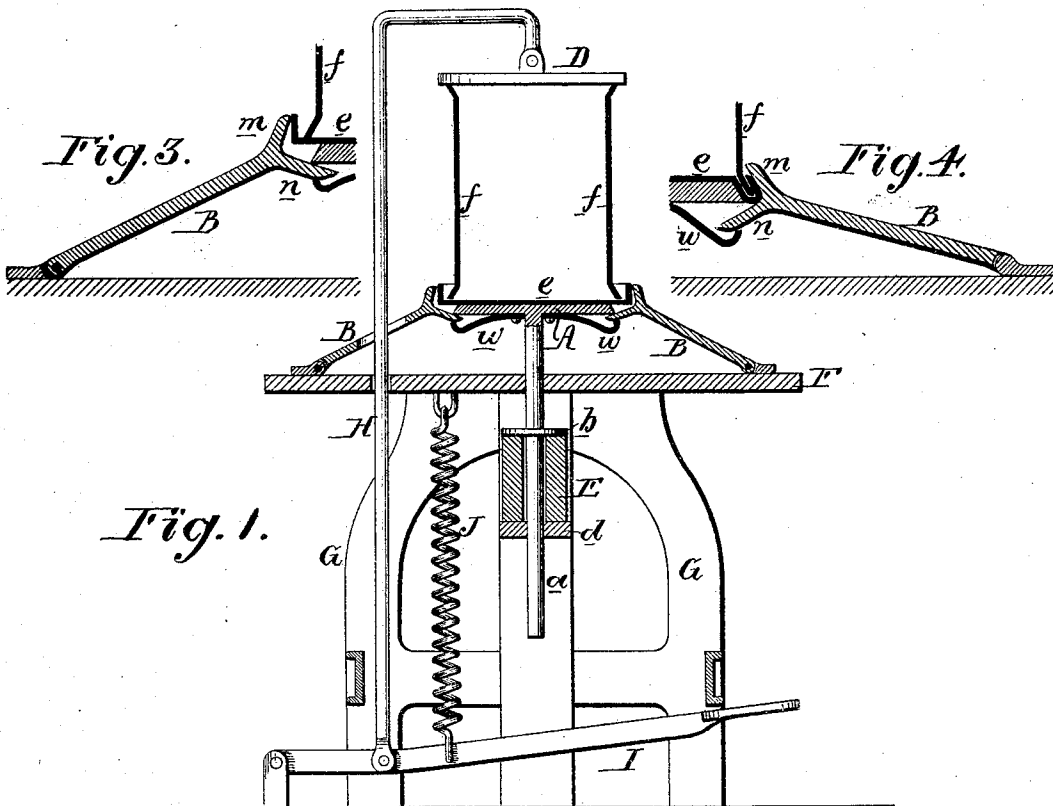
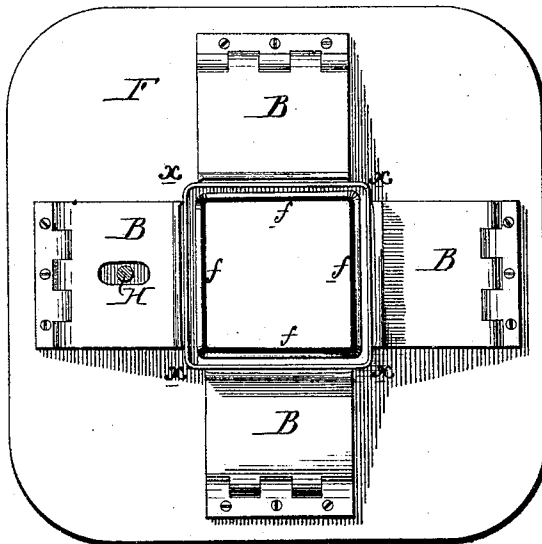


Fig. 2.



Witnesses, Herbert Stinson,
Harry Smith

James H. Perkins
by his Attys.
Howson and Son,

UNITED STATES PATENT OFFICE

JAMES H. PERKINS, OF PHILADELPHIA, PA., ASSIGNOR TO HIMSELF AND
GEORGE H. PERKINS, OF SAME PLACE, JOSEPH LE COMTE, OF NEW
YORK, AND ATLANTIC REFINING COMPANY, OF PHILADELPHIA.

IMPROVEMENT IN SEAMING-MACHINES.

Specification forming part of Letters Patent No. **146,947**, dated January 27, 1874; application filed
December 17, 1873.

CASE C.

To all whom it may concern:

Be it known that I, JAMES H. PERKINS, of Philadelphia, Pennsylvania, have invented a Machine for Closing the Seams of Sheet-Metal Cans, of which the following is a specification:

My invention relates to the manufacture of the square cans used for the transportation and storing of petroleum and other fluids; and the object of my invention is to close the seams at the junction of the bottoms and tops with the bodies of such cans, at four sides simultaneously, by the combination of a pressure-plate, D, and yielding bed A, for confining and depressing the can, with plates B, for operating on the seam of the can during the depression of the same, all as fully described hereafter, and as illustrated in the vertical section, Figure 1, and plan view, Fig. 2, of the accompanying drawing.

A spindle, *a*, to which the said bed A is attached, passes through and is guided by a table, F, and a cross-bar, *d*, of a suitable frame, G, which supports the table; and a collar, *b*, on the spindle bears upon a spring, E, supported by the said cross-bar. The pressure-plate D is suspended from the upper end of a bent rod, H, the lower end of which is connected to a treadle, I, a spring, J, tending to elevate the rod, pressure-plate, and treadle after the latter has been released from the pressure of the operator's foot. To the table F are hinged the four plates B, one opposite each edge of the square bed A, and at the outer edge of each plate are two flanges, *m* and *n*, as best observed in the enlarged sectional views, Figs. 3 and 4, the flanges *n* of the plates being below and the flanges *m* above the beveled edge of the bed.

The bottom *e* of the can, in the condition of a square plate with its edges turned up, as shown in Fig. 1, is placed on the bed A, while the latter and the hinged plates B are elevated, and the lower flaring end of the body *f* of the can is placed on the plate *e*, within its

turned-up edges, after which the operator depresses the treadle, the first effect of the pressure on which is to cause the plate D to securely confine the body *f* and bottom *e* of the can to the bed. On continuing to depress the treadle, the bed A must yield, and the hinged plates B must be gradually moved from the inclined position shown in Fig. 3 to that seen in Fig. 4. The action of the flanges *m* of the hinged plates during this movement will be to turn inward simultaneously all the four flanges of the bottom *e* against the flaring lower ends of the body, and then to turn both these flaring edges and the turned-up edges of the bottom *e* together against the beveled edges of the bed A. On releasing the treadle, the recoil of the spring E will elevate the bed to its former position, and the spring J will elevate the pressure-plate D, so that the can, with the bottom *e* firmly secured to the body, can be removed, the joints being ready for soldering. Springs *w*, secured to the under side of the bed A, and bearing against the flanges *n* of the hinged plates, tend to restore the latter to their proper position after the release of the treadle.

I claim as my invention—

1. The pressure-plate D and yielding bed A, for confining and depressing the can, in combination with plates B, constructed substantially as described, for operating on the seam of the can during the depression of the same.

2. The combination of the yielding bed A, the plates B, hinged at one end to the table or other permanent part of the machine, and the springs *w*.

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

JAMES H. PERKINS.

Witnesses:

WM. A. STEEL,
HARRY SMITH.