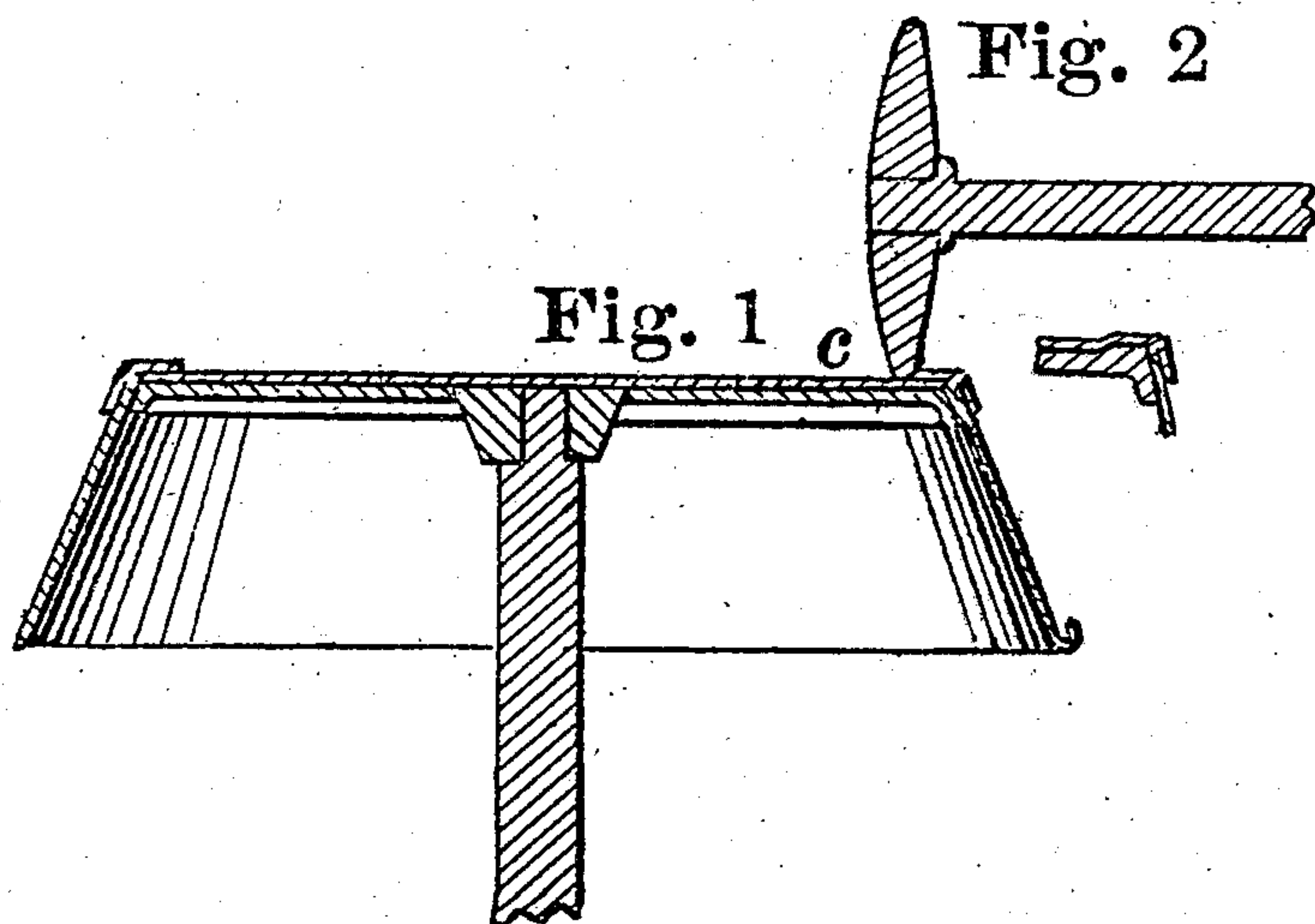


L. T. HULBERT.

MODE OF DEFLECTING THE BOTTOMS OF VESSELS MADE OF SHEET METAL.

PATENTED MAY 7, 1867.

No. 64,422.



ONLY DRAWING ACCESSIBLE
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L. T. HULBERT, OF PAINESVILLE, OHIO.

Letters Patent No. 64,422, dated May 7, 1867.

IMPROVED MODE OF DEFLECTING THE BOTTOMS OF VESSELS MADE OF SHEET METAL.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, L. T. HULBERT, of Painesville, in the county of Lake, and State of Ohio, have invented a new and improved Mode for Deflecting the Bottoms of Tinware Articles; and I do hereby declare that the following is a full and exact description thereof, reference being had to the drawings accompanying this specification, and making part of the same.

This improvement has for its object deflecting the bottoms of tinware articles, such as pans, pails, cans, &c., so that the straightness or rigidity thereof, destroyed by the operation of soldering, is again restored. The machines now in use for accomplishing this are imperfect by reason that the operation of soldering cannot be done until after the process of deflecting, thus rendering the bottoms liable to expand again from the heat of the soldering implement. In my arrangement the process of deflecting can be done after the bottom has been soldered; the defect complained of is therefore entirely remedied. I accomplish the deflecting process in such manner that the immediate part only of the bottom to be deflected is touched by the rotary head, thus avoiding any possibility of cracking or injuring the soldered joint of the ware; to avoid which, in the other machines spoken of, the operation of soldering must succeed that of the deflecting. The following description will show the construction of my improved deflecting head, and also explain the particular mode of its operation.

Figure 1 is a perspective view of my said improved rotary deflecting head. It is of suitable diameter, and has a thin, smooth rounding periphery, A. It is intended to be attached to my double-seaming machine, for which Letters Patent were granted to me on the 3d day of January, 1860.

Figure 2 represents the "former" X of my said machine adapted to work in combination with the said rotary head. B is a raised border of suitable width, on its upper face, as seen.

Figure 3 is a transverse section of the said head and "former," showing the precise location where the head impinges on the bottom of the pan as at C, without its touching any other part of the "former."

The operation is simply to place the ware to be deflected, previously soldered, on the "former," and to bring or lower the head in contact with it, revolving the head by the handle of the machine. The said rotary deflecting head can be removed from the shaft of the machine when not required for use, so as to allow of other heads for different processes to be put on the shaft.

What I claim as my improvement, and desire to be secured by Letters Patent, is—

I claim the use of the independent rotary head, fig. 1, constructed and operating in combination with the "former," fig. 2, in the manner substantially as specified and for the purpose set forth.

L. T. HULBERT.

Witnesses:

J. F. SINGLE,
H. C. GRAY.