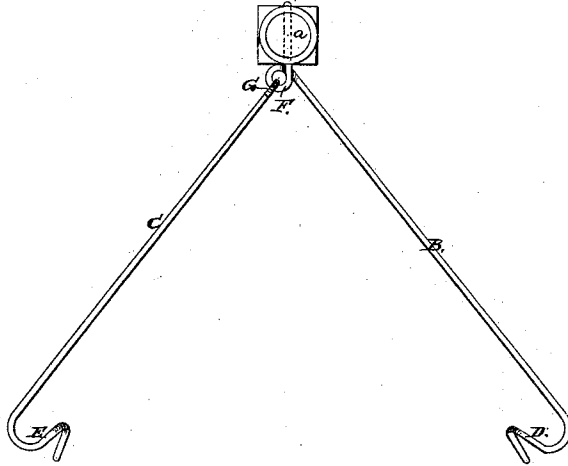


*D. Welch,*  
*Plate Lifter,*

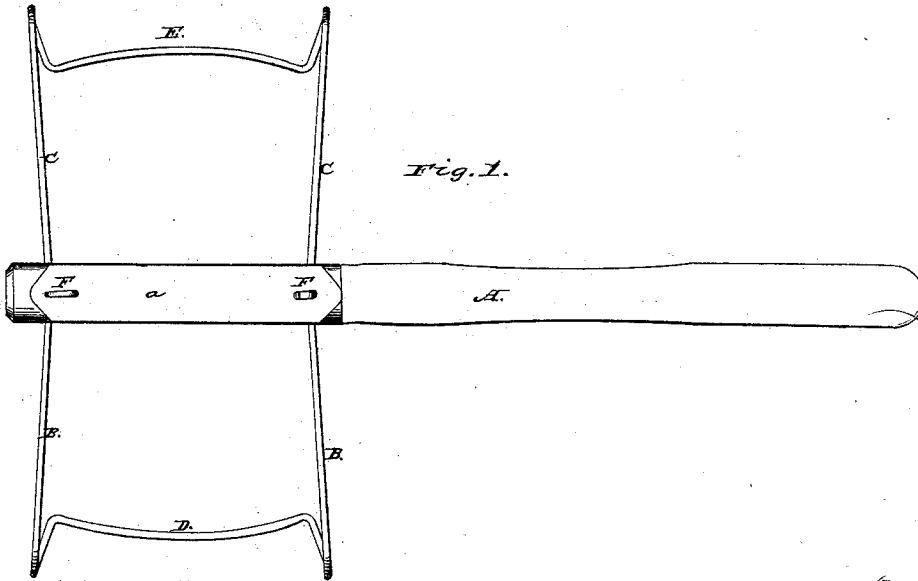
*N<sup>o</sup> 62,716.*

*Patented Mar. 5, 1867.*

*Fig. 2.*



*Fig. 1.*



*Witnesses:*

*Abiel Pusey*  
*Geo. C. Pusey*

*Inventor.*

*Dan Welch*

# United States Patent Office.

DAN WELCH, OF LOWELL, MASSACHUSETTS, ASSIGNOR TO H. A. HILDRETH,  
OF LOWELL, AND W. J. JOHNSON, OF NEWTON, MASSACHUSETTS.

Letters Patent No. 62,716, dated March 5, 1867.

## IMPROVED PLATE-LIFTER.

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, DAN WELCH, of Lowell, county of Middlesex, and State of Massachusetts, have invented new and useful improvements in Self-Adjusting Plate-Lifters; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of my invention consists in providing a plate-lifter with handle, stationary and swinging jaw or jaws.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

Figure 1 represents a plan of my improved self-adjusting plate-lifter.

Figure 2 represents an end elevation of the same.

A represents the handle, B B the arms to the fixed or stationary jaw, C C the arms to the swinging jaw, D the fixed jaw, E the swinging jaw. The handle A being made of any material and finished, with a body, *a*, being of any form or shape as may be desired. The fixed or stationary jaw D, with its arms B B, is then formed of one or more pieces of wire of any required shape or size; the end of the arms B B are so coiled as to form the eyes F F, leaving sufficient length of wire to pass through the holes in the body *a* of the handle A, which are then inserted in the body *a* and clinched down on the same. The swinging jaw E, with its arms C C, are so formed as to correspond in form and shape with the fixed or stationary jaw D, with its arms B B, except at the extreme ends of the arms, which ends are passed through the eyes F F of sufficient length to form the loops G G, this mechanism forming a joint or hinge.

By this arrangement the operator takes the lifter by the handle A, throws or swings the jaw E over one edge of the plate, and with a slight turn of the handle A adjusts the jaw D to the opposite side; the plate, with its contents, can then be safely lifted and carried to any required place, and be relieved from the lifter at the will of the operator. Thus it will be clearly seen that this novel and simple arrangement can be instantly applied and adjusted to almost any size plate, even if the plate and its contents are intensely hot, and removed to any location without any hindrance or inconvenience to the operator whatever.

What I claim as my invention, and desire to secure by Letters Patent, is—

I claim the combination of the fixed and swinging jaw B and C, arranged substantially as described and for the purpose fully set forth.

DAN WELCH.

Witnesses:

ABIEL PEVEY,  
GEO. E. PEVEY.