

N. P. MADDOCKS.
Pie-Turners.

No. 200,742.

Patented Feb. 26, 1878.

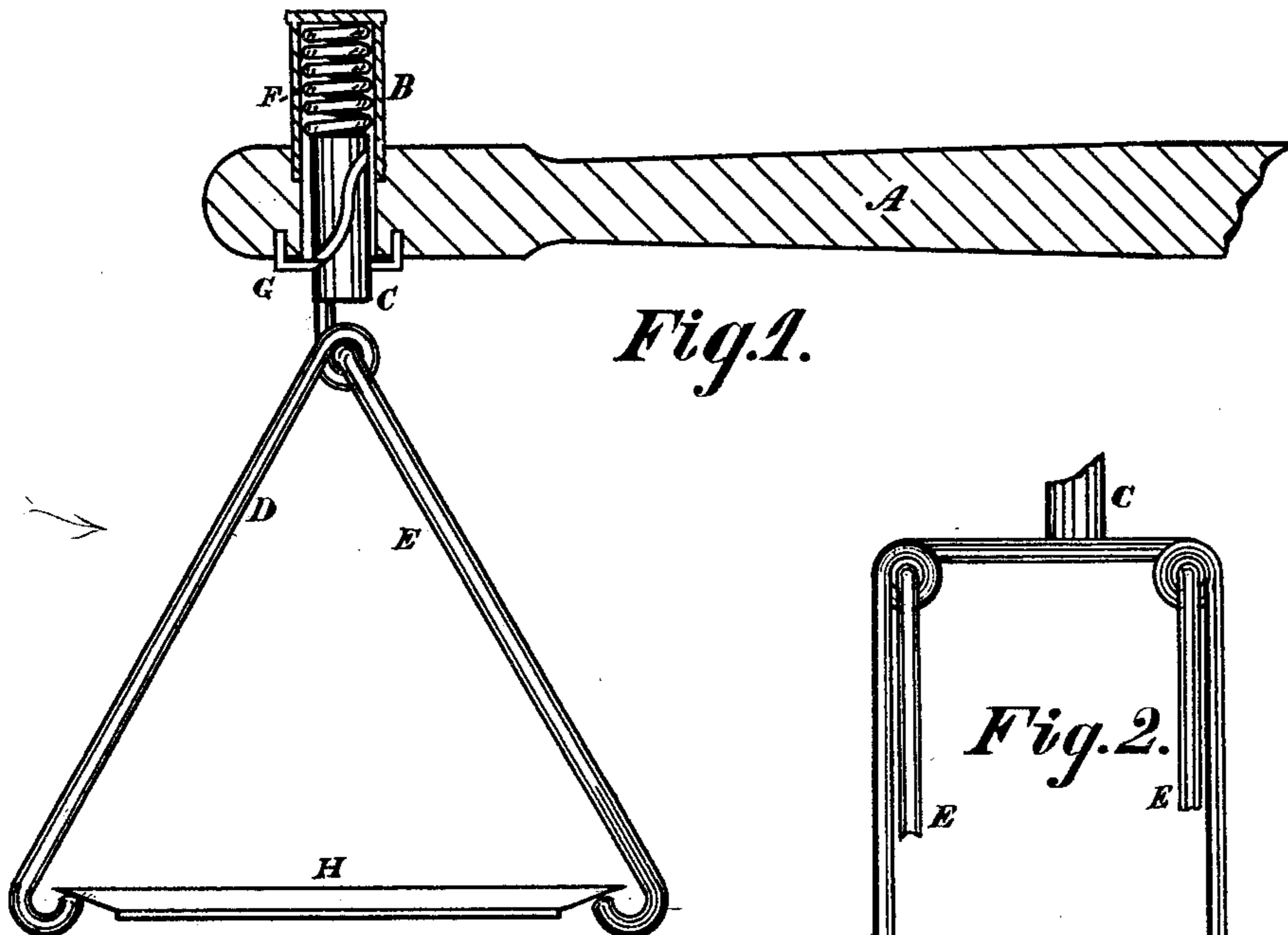


Fig. 1.

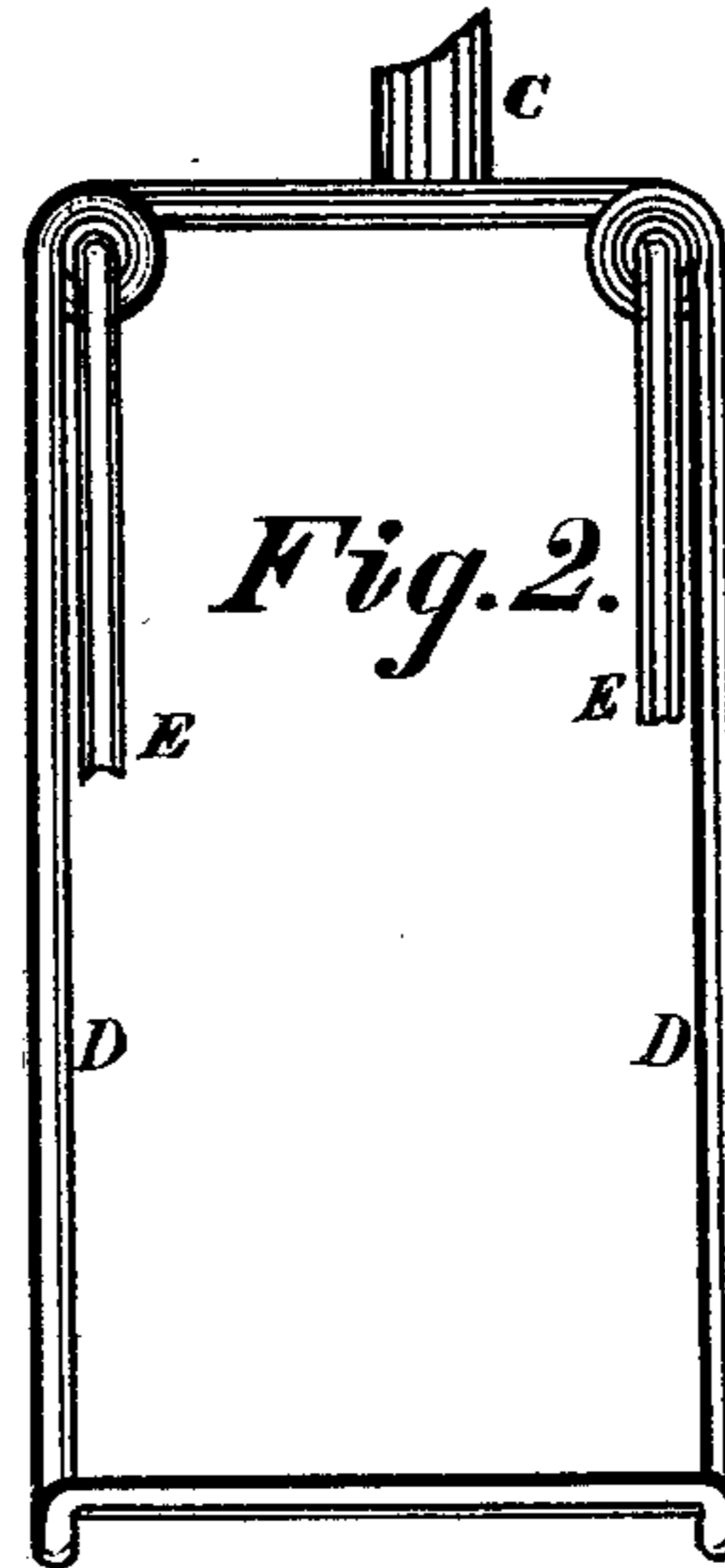


Fig. 2.

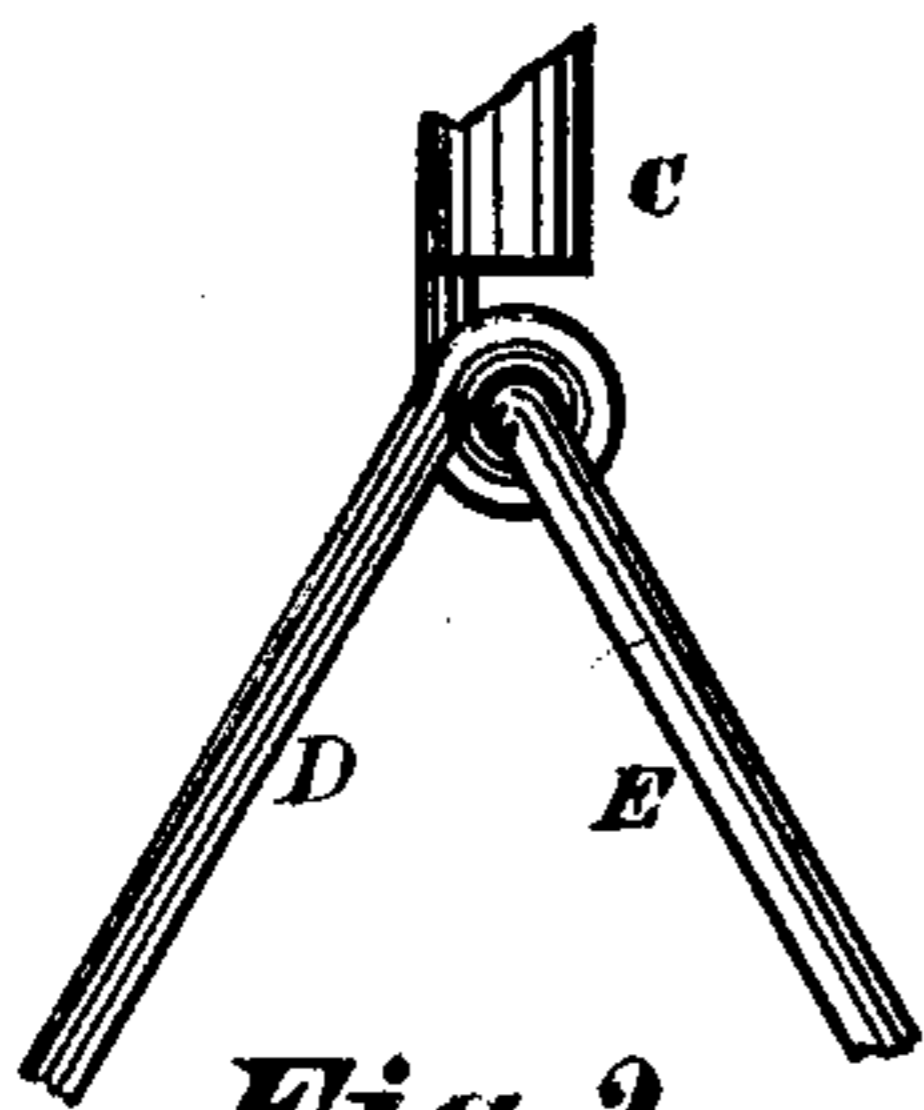


Fig. 3.



Fig. 4.

Witnesses ;

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UNITED STATES PATENT OFFICE.

NELSON P. MADDOCKS, OF LAWRENCE, ASSIGNOR TO CHAS. D. MOORE, OF SAME PLACE, AND GEO. B. REED, OF CAMBRIDGE; SAID MOORE ASSIGNOR TO GEO. A. DURRELL, ALSO OF CAMBRIDGE, MASSACHUSETTS.

IMPROVEMENT IN PIE-TURNERS.

Specification forming part of Letters Patent No. **200,742**, dated February 26, 1878; application filed February 8, 1877.

To all whom it may concern:

Be it known that I, NELSON P. MADDOCKS, of Lawrence, in the county of Essex and Commonwealth of Massachusetts, have invented a new and useful Improvement in Mechanism for Lifting and Turning Pies while in an oven, and without removing the same, which invention is fully described and set forth in the following specification.

The object of my invention is to so construct a pie lifter and turner that the same can be inserted within an oven, engaged with a plate, and the same turned to any desired point, or, if desired, removed from the oven altogether. This I accomplish by placing in a handle of any desired length a worm, so graduated that it will turn half-way around in descending over a guide-pin, and having attached to its top a light spring to hold the same in poise. Through the grooves of this worm is passed a pin, on which the same is guided and turned, and at the lower end of the worm are attached two hooks formed of wire, and so constructed that they can be readily engaged with a plate. When engaged with a plate the weight of the latter is sufficient to overcome the spiral spring supporting the worm and its attachments; consequently the worm descends on its guide, and, being so graduated as to make a half revolution in its descent, turns a plate half-way around, after which the wires or hooks can be removed from the same by a slight motion of the hand, when the worm returns to its former position.

In the drawings, Figure 1 represents a sectional view of my lifter and turner, showing the connection and construction of its various parts. Fig. 2 is a side view of the fixed wire or hook. Fig. 3 is an end view of the wire hooks, showing their connection, and Fig. 4 shows a worm with its groove.

Like letters represent the same parts in each of the figures, in which—

A represents a handle designed to serve in connecting the various parts of a lifter and

turner, as well as a means of manipulating the same. B is a cover designed to incase the spring F and to serve as a means of supporting the same. C is a worm so graduated that it will turn half-way around in its descent. D is a wire formed into a double hook, and securely attached to the worm C, having two eyes turned at the top, to which it is designed to attach the movable hook E. E is a movable or swinging hook designed, with D, to engage or hold a plate. F is a spiral spring attached to the cover B and to the worm C, and made of sufficient strength to raise the turning mechanism and hold the same in place. G is a pin passing through the grooves of C, and designed to guide the same; and H represents a plate as placed within the hooks D and E.

To use my improved pie lifter and turner, first attach the hooks to a plate by raising it to such an extent that its weight may bear down upon the hooks; then the mechanism will turn the plate half-way around, or, if desired, the same can be removed from an oven, as with the ordinary pie-fork.

Having thus described my said invention, I claim as new and desire to secure by Letters Patent—

1. A pie-turner composed of plate-holding arms revolved semicircularly by suitable mechanism in a guide-ferrule of the handle, substantially as and for the purpose set forth.

2. The combination of the spirally-grooved worm C with the spring F and the hooks D and E, in the manner and for the purpose herein described and set forth.

3. The combination of the handle A, the cover B, the spirally-grooved worm C, the hooks D and E, the spiral spring F, and the guide-pin G, in the manner and for the purpose herein described and set forth.

N. P. MADDOCKS. [L. S.]

Witnesses:

GEORGE WILTON,
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