(No Model.)

F. HENRY.

Egg Beaters.

No. 232,125. Patented Sept. 14, 1880.

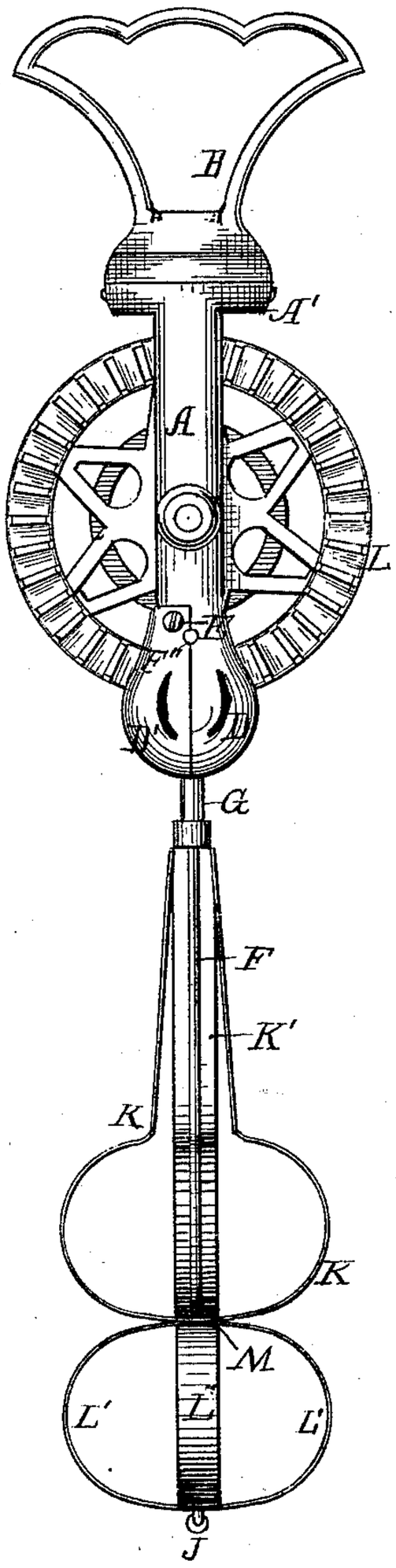

Fig. 1.

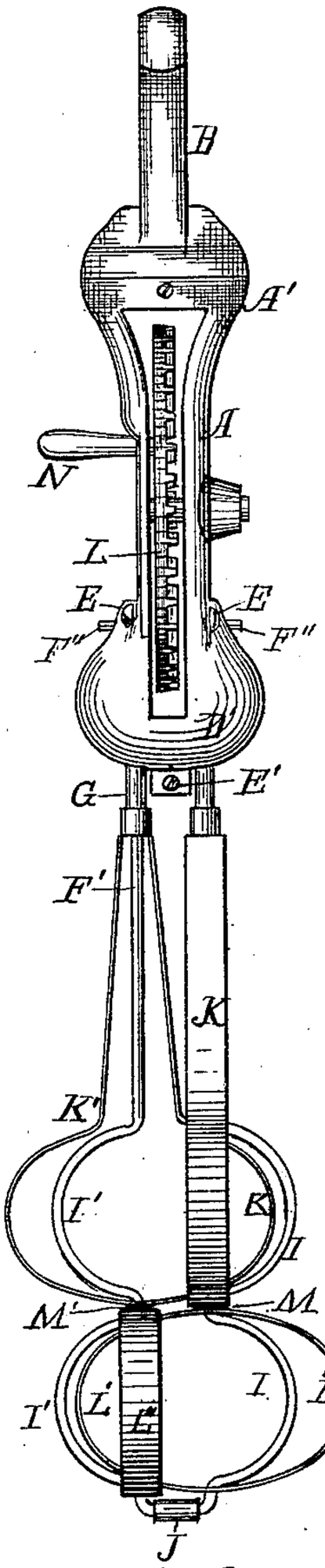

Fig. 2.

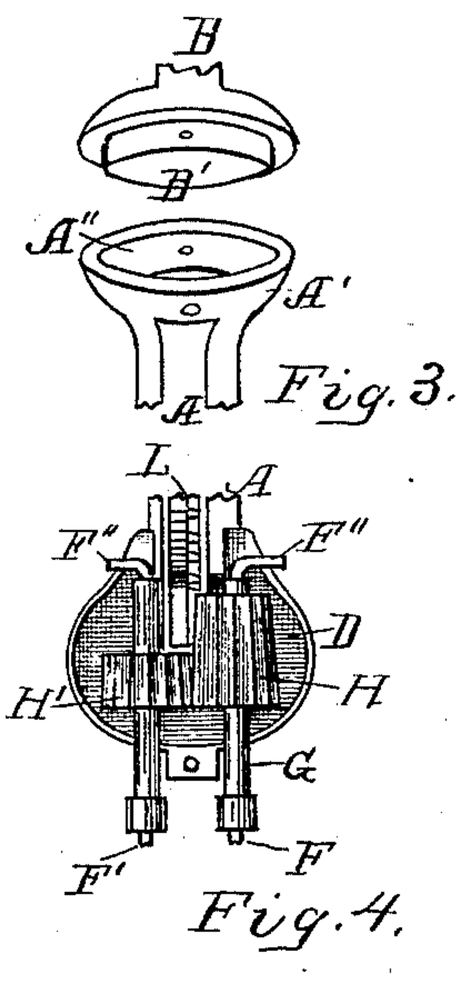

Fig. 3.

Fig. 4.

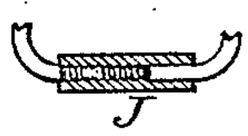

Fig. 5.

WITNESSES:

Thomas Lee

S. Stothart.

INVENTOR:

Frank Henry.

BY J. L. Ferbe

ATTORNEY.

UNITED STATES PATENT OFFICE.

FRANK HENRY, OF NEWPORT, KENTUCKY.

EGG-BEATER.

SPECIFICATION forming part of Letters Patent No. 232,125, dated September 14, 1880.

Application filed June 21, 1880. (No model.)

To all whom it may concern:

Be it known that I, FRANK HENRY, of Newport, in the county of Campbell and State of Kentucky, have invented a new and useful Improvement in Egg-Beaters, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a side view of the improved beater. Fig. 2 is a front view of the same, and Figs. 3, 4, and 5 are detail views.

The object of my invention is to improve the structure of egg-beaters; and it consists, principally, of the manner in which the frame is constructed, so that the beaters can be removed from the frame. It also provides a new and improved method of manufacturing the wires upon which the beaters revolve at the point where the small pinions are attached, and in making the beater-wires in two parts, so that the various parts forming the device may be readily taken apart and cleaned.

The improvement also consists in placing one set of revolving beaters above the other to enable the operator to do more effectual work, as will hereinafter be more fully set forth.

In the drawings, A represents the frame of the beater, which is composed of two bars parallel with each other, and having a space between. This frame is provided at the upper end with a head, A′, flattened on top and provided with a socket, A″, in the upper surface, into which is fitted a tang, B′, which projects from the lower surface of a handle, B. The lower end of the frame is provided with an enlarged portion hollowed within and formed in two parts or halved, the rear portion, D, being a continuation of the frame A, and the front portion, D′, of equal size with the rear part, D, is slotted at the upper end, and its ears hinged, by means of screws E, to the parallel bars of the frame A. A screw, E′, passing through lips projecting from the lower ends of the housings D D′, keeps the halved portions securely together.

F F′ represent wires for holding the revolving beaters. These are provided at the upper ends with hooks F″ F″, or bent at right angles, so that when they are secured in notches cut in the housing D D′, near the pivots E, the ends of the wires project out from the housing.

A long pinion, H, having a thimble or tubing, G, secured to its lower end, is loosely secured on the wire F within the housing D D′; but the lower end of the tubing projects from the housing below, and at the point where the tubing passes out of the housing a journal or bearing-point is formed. The upper end of the long pinion is intended to mesh with the larger gear-wheel, L. A short pinion, H′, in like manner provided with a tubing below, is placed on the wire F′, so that the two pinions H H′ mesh with each other.

The wires F F′ extend down below these pinions a suitable distance, and are there provided with two curves, I I′, one below the other. The lower ends are bent toward each other, and the wire F is provided with a tubing, J, threaded, which is adapted to receive the threaded end of the opposite wire, F′.

F F′ represent the beater-blades, having their ends secured side by side to the lower end of the tubing G, and bent centrally, as in beaters of this description, there being double centers formed, and, in addition, one series of beaters is placed below the other. Thus K K′ represent the upper beaters, and L′ L″ the lower beaters. The flat sides of the beaters K L′ are soldered or otherwise united at the point indicated by M, and the beaters K′ L″ at the point indicated by M′.

N represents the handle attached to the main driving-wheel L. It will be noticed that the driving-wheel L is provided with cogs only on one side. These mesh with the long pinion H, which in turn meshes with the short pinion H′. The wires F F′ can readily be detached from the housing by removing the top part, D′.

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

1. In an egg-beater, the frame A, having a detachable top or handle, B, and at the lower end a housing composed of the back extension-piece, D, and the front cap, D′, of equal size with the back piece, the two parts forming a bulb hollow within for the reception of the pinions for operating the beaters, substantially as and for the purpose set forth.

2. The wires F F′, curved at right angles at their upper ends, and provided with the tubing G, placed loosely thereon, to which tubing are secured rigidly the pinions H H′, the said

wires F being provided at the lower end with a tube, J, threaded within and adapted to receive the threaded end of the other wire, F′, whereby the said wires may be secured to each other, substantially as and for the purpose specified.

3. The combination of the frame A, having at the upper end the detachable top and at the lower end the housing D D′, and the wheel L, with the wires F F′, having the tubing G, upon which are secured the pinions H H′, and joined together at their lower ends by means of the threaded tubing J, substantially as and for the purpose herein set forth.

In testimony that I claim the above I have hereunto set my hand this 17th day of June, A. D. 1880, in presence of witnesses.

FRANK HENRY.

Witnesses:
P. HENRY,
S. STROBHART.