

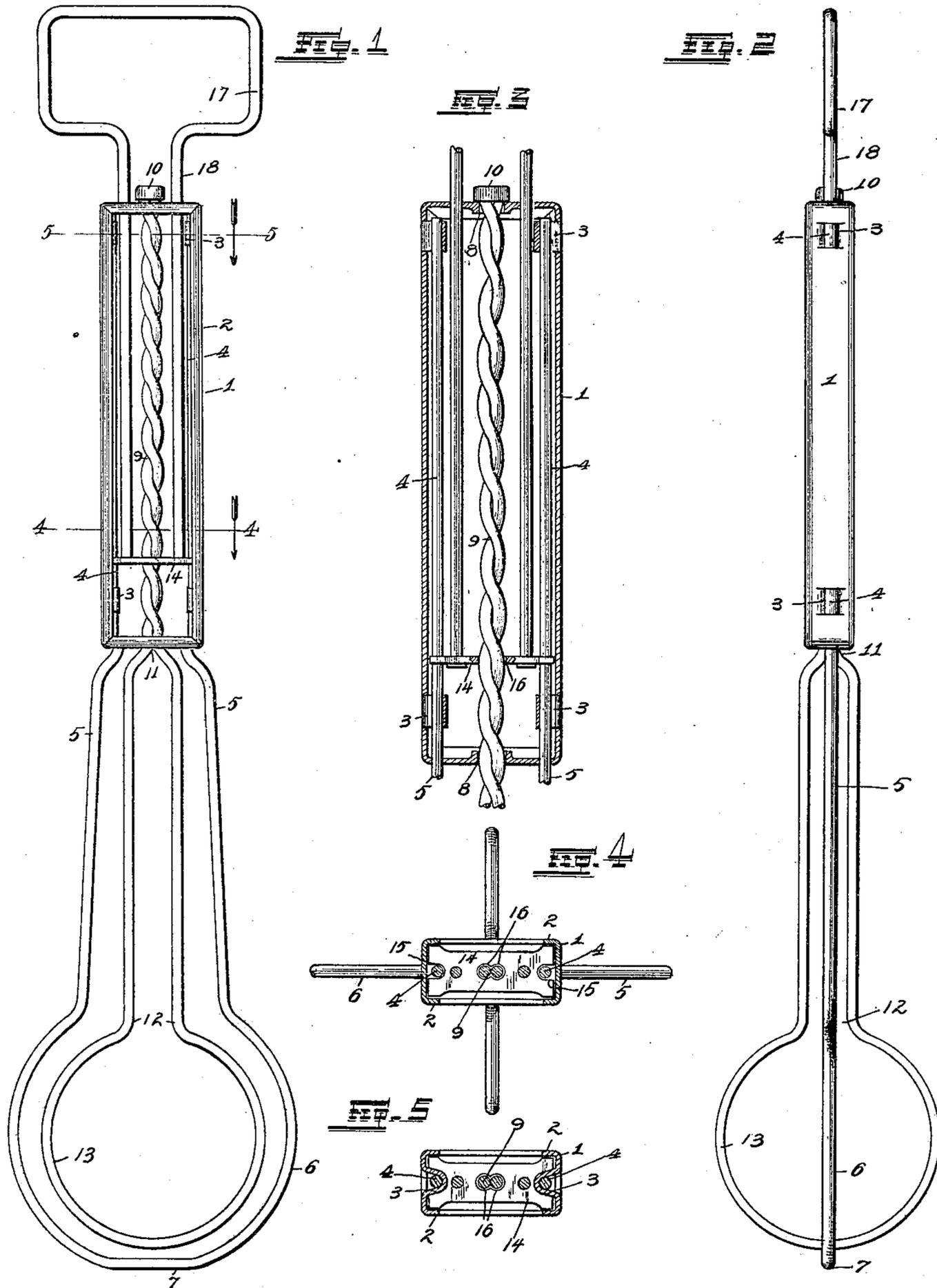
No. 659,558.

Patented Oct. 9, 1900.

H. M. STURGIS.
EGG BEATER.

(Application filed Dec. 4, 1899.)

(No Model.)



Witnesses:

Alfred A. Eickon
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Inventor

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By Higdon & Longan, Attys.

UNITED STATES PATENT OFFICE.

HERBERT MARSHALL STURGIS, OF KANSAS CITY, MISSOURI, ASSIGNOR OF
THREE-FOURTHS TO CHARLES F. O'BRIEN, OF SAME PLACE, AND ANNIE
L. GARTSIDE, OF CHICAGO, ILLINOIS.

EGG-BEATER.

SPECIFICATION forming part of Letters Patent No. 659,558, dated October 9, 1900.

Application filed December 4, 1899. Serial No. 739,131. (No model.)

To all whom it may concern:

Be it known that I, HERBERT MARSHALL STURGIS, of Kansas City, Jackson county, State of Missouri, have invented certain new and useful Improvements in Egg-Beaters, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention consists of the novel construction, combination, and arrangement of parts hereinafter shown, described, and claimed.

The object of this invention is to construct an egg-beater having an improved means of holding the parts together and an improved mechanism by means of which the beater may be operated.

Figure 1 is a view showing my complete invention. Fig. 2 is a side view of the same. Fig. 3 is a vertical sectional view of the handle and operating mechanism, showing the arrangement of the different parts. Fig. 4 is a sectional view taken on the line 4 4 in Fig. 1 and looking in the direction indicated by the arrow. Fig. 5 is a cross-sectional view taken on the line 5 5 in Fig. 1 and looking in the direction indicated by the arrow.

Referring by numerals to the drawings, 1 indicates a rectangular metallic frame, integral with each side of which is a continuous flange 2. Retaining clips or ears 3 are stamped integral with each side of the metallic frame 1, and the upper ends 4 of the supporting-wire 5 are passed through the said ears or clips and are soldered or retained in position by other suitable means. The lower end of the supporting-wire 5 is formed into a larger ring or loop 6, the bottom of which is slightly flattened, as indicated by 7.

Vertically-aligned bearings 8 are formed in the top and bottom of the frame 1, and a spiral projection 9 is journaled in said bearings and is provided with a cap 10 on its upper extremity for the purpose of retaining it in its bearings. The spiral projection 9 is formed by twisted strands of wire, which

diverge at 11 and extend parallel to 12, where they diverge and form the loop 13, somewhat smaller than and contained within the loop or ring 6. The part last described is the beater and is propelled in a manner hereinafter described.

A metallic plate 14 is contained in the frame 1 by the flanges 2 on the forward and rear sides of said frame, and in each end is a groove or excision 15, in which the projections 4 of the wire 5 fit. The said grooves 15 are of such size as to allow a free movement of the plate 14 as regards the projections 4, but are smaller than the ears or clips 3, so that the said plate is allowed a movement only between the upper and lower of said ears or clips.

Two circular apertures 16 are provided near the center of the plate in such manner that they overlap, forming an approximately 8-shaped aperture. Through this aperture the spiral 9 is projected, so that one of the strands forming the spiral lies in one of said circular apertures and the other strand in the other of said apertures. This is for the purpose of rotating the spiral as the said plate is raised or lowered within the frame 1.

An operating-handle is provided, comprising the rectangular loop 17, of which the projections 18 pass through apertures in the top of the frame 1 and are suitably secured to the plate 14. By vertically reciprocating the handle and the plate the spiral 9 and the loop 13 are rapidly rotated in a forward or rearward direction, according as the handle is raised or lowered. This movement of the loop agitates the article to be beaten and the operation is very quickly accomplished.

An egg-beater of my improved construction is very simple, is easily operated, does not necessarily get out of repair, little cost is necessitated in construction, and is found to be very efficient.

I claim—

In an egg-beater, a retaining-frame, a wire formed into a loop and its ends twisted into

a spiral, said wire being rotatably journaled in the said frame at top and bottom, a second wire formed into a loop and its ends rigidly secured to the sides of said frame, an apertured plate slidably retained within said frame and engaging the said spiral, a wire 18 rigidly secured to said plate and guided in said frame, and a handle formed integral

with said wire beyond the end of the frame, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

HERBERT MARSHALL STURGIS.

Witnesses:

MARY WAGNER,
D. F. O'DONNELL.