

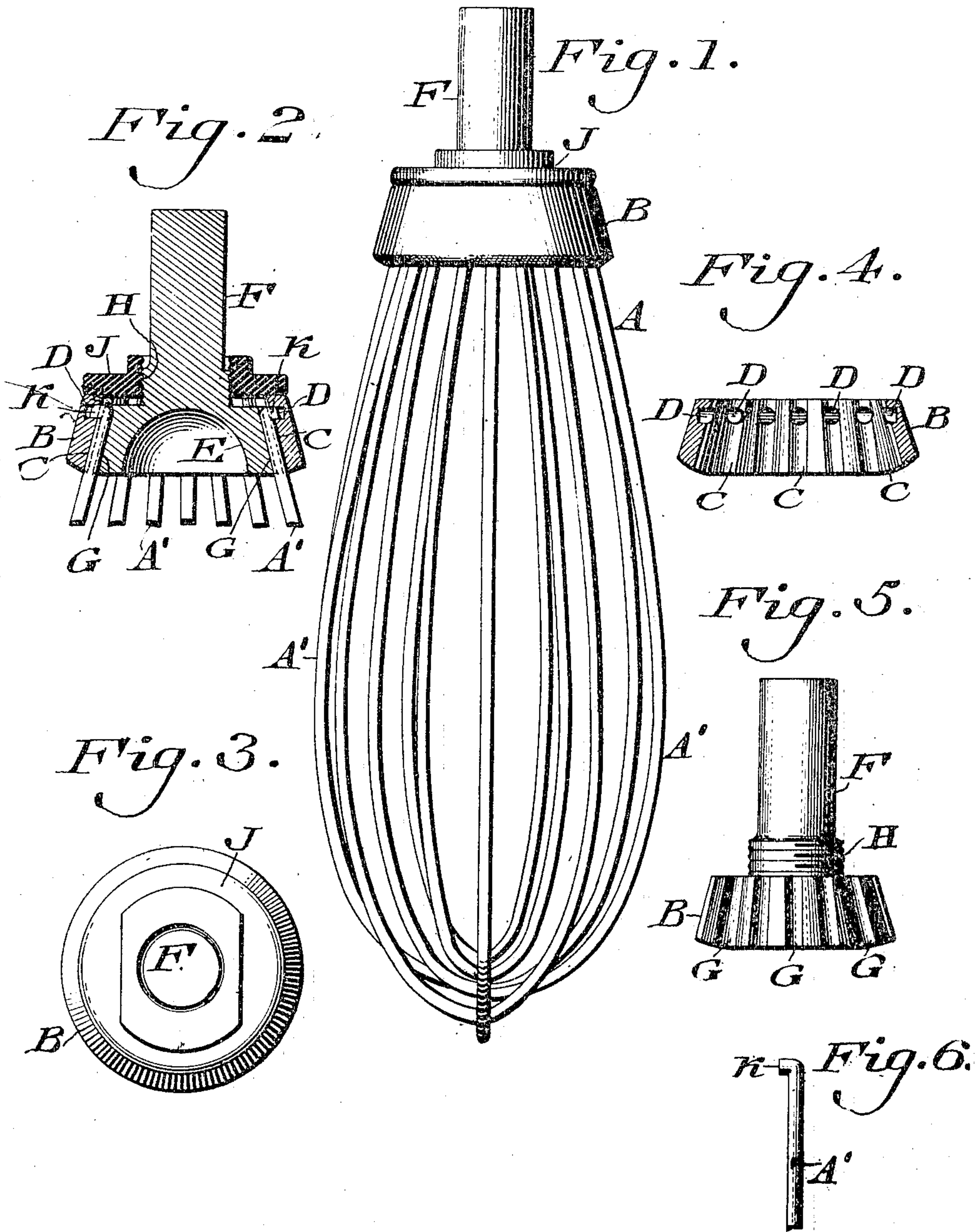
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PATENTED DEC. 4, 1906.

W. STURMA.

BEATER, MIXER, AND MASHER FOR EGGS, CREAM, VEGETABLES, &c.

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Witnesses
P. F. Nagle.
L. Rouville

Inventor
William Sturma
By Hiedersheim & Lirbaur
Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM STURMA, OF PHILADELPHIA, PENNSYLVANIA.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM STURMA, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Beater, Mixer, and Masher for Eggs, Cream, Vegetables, &c., of which the following is a specification.

My invention consists of a beater, mixer, and masher for eggs, cream, vegetables, &c., the same embodying novel means for firmly holding the wires composing the body of the beater, &c., on the head thereof and readily permitting the removal of the wires when so required and replacing the same.

Figure 1 represents a side elevation of a beater, &c., embodying my invention. Fig. 2 represents a longitudinal section of a portion thereof. Fig. 3 represents a top or plan view thereof, omitting the body-wires. Fig. 4 represents a diametric section of a detached portion. Fig. 5 represents a side elevation of a detached portion.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates the body of a beater, &c., the same being constructed of pieces A', of wire, suitably bent into loop form, which are adapted to whip or beat articles, such as eggs, &c. B designates a collar which is located around the free end portions of said wires and having on its interior wall the longitudinally-extending grooves or recesses C and the transversely-extending openings D, it being noticed that said wall is of tapering or conical form.

E designates a tapering or conical plug which is of rigid construction and adapted to enter the collar B, which, with said collar B, forms the head of the beater, &c., said plug being connected with the shank F, by which the beater, &c., may be mounted on a suitable frame and receive rotary motion or power in any suitable manner, it being noticed that the exterior wall of said plug is formed with grooves or recesses G, which are adapted to register with the grooves or recesses C on the collar B.

The portion of the shank F which is adjacent to its place of connection with the plug E has screw-threads H thereon, the same being adapted to be engaged by the nut J, which is fitted over said shank F and is adapted to draw the plug into the collar and tighten the same in position by wedging action.

The free ends of the wires of the body A are bent outwardly, forming lips K, which are adapted to enter the openings D in the collar B, while the portions of the wires adjacent said lips are adapted to enter the grooves C G of the collar and plug, it being evident that said portions are tightly embraced by the walls of said collar and plug, and consequently are firmly bound by the same, and as the lips K occupy the openings E and are controlled against inward displacement by the pressure of the plug at the angles or bends of said lips it is evident that the wires are reliably connected with the head and prevented from being drawn out from the same.

Should a wire be broken or fractured and it is desired to remove the same, the nut J is unscrewed, whereby the plug and collar may be separated one from the other, when the wire may be pressed in in such manner as to cause its lip to emerge from the opening D which it occupies, the adjacent portion of the wire then being removed from the grooves or recesses C G, the effect of which is evident.

If desired, all the wires may be removed in a similar manner and replaced by new wires.

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

1. In a beater of the character stated, a collar having its interior wall tapering and openings in the said walls, a rigid plug of tapering form adapted to enter said collar, a body formed of wire members having portions interposed between said collar and plug, a shank rigidly connected with said plug, said shank having a screw-thread thereon and a nut encircling said shank and engaging said thread and rotatably seated on said collar.

2. In a beater, &c., a body composed of wires, the ends of which are provided with outwardly-turned lips, a collar having openings on its inner surface adapted to receive said lips, a plug adapted to enter said collar and control said lips in said openings, and a nut adapted to be screwed on the shank of said head and to be rotatably seated on and directly tightened against said collar and forcibly press said plug in position in said collar, portions of said wires being interposed between said collar and head.

3. In a beater, &c., a body composed of wires, the ends of which are provided with outwardly-turned lips, a collar having open-

ings on its inner surfaces adapted to receive said lips, a plug adapted to enter said collar and control said lips in said openings and a nut adapted to be screwed on the shank of
5 said head and to be rotatably seated on and directly tightened against said collar and forcibly press said plug in position in said collar, portions of said wires being interposed between said collar and the plug, the
10 contiguous surfaces of said collar and plug having therein registering grooves in which grooves the relative portions of the wires are seated.

4. In a beater, &c., a body composed of
15 wires, the ends of which are provided with outwardly-turned lips, an exterior collar hav-

ing openings on its inner surfaces adapted to receive said lips, a plug adapted to enter said collar and control said lips in said openings in a shank rigidly connected with said plug
20 and passing through said collar, and a nut adapted to be fitted on the shank of said head and rotatably seated directly on and tightened against said collar and forcibly press
25 said plug in position in said collar, portions of said wires being interposed between said collar and plug.

WILLIAM STURMA.

Witnesses:

JOHN A. WIEDERSHEIM,
S. R. CARR.