

(No Model.)

C. A. BRYANT.

EGG BEATER.

No. 386,105.

Patented July 17, 1888.

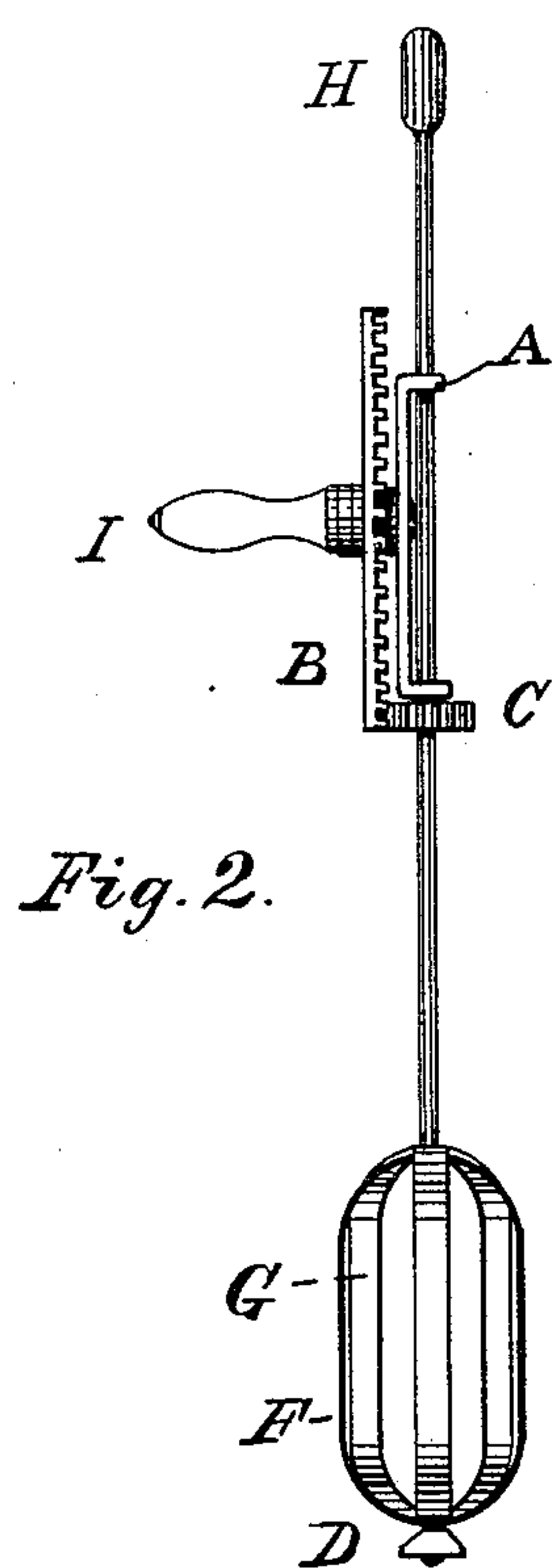


Fig. 2.

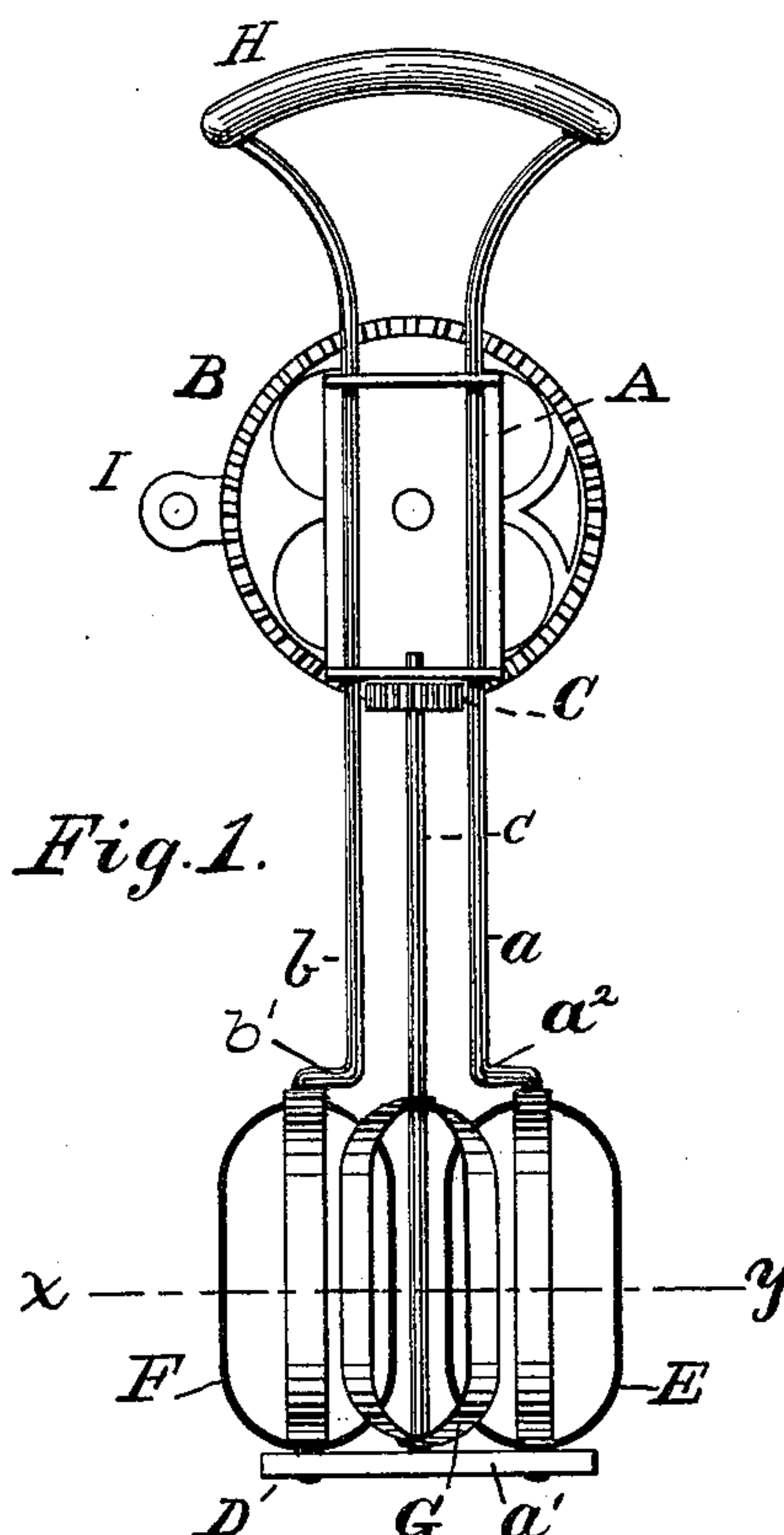


Fig. 1.

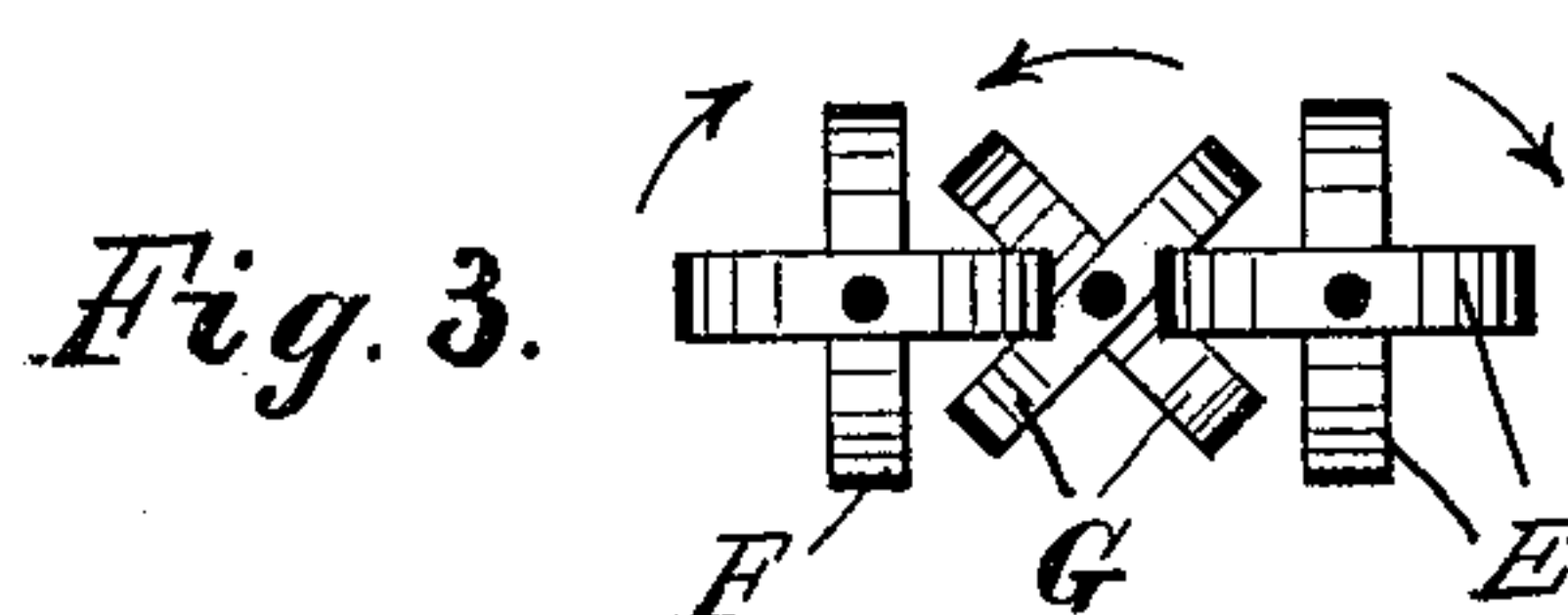


Fig. 3.

WITNESSES:

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BY
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UNITED STATES PATENT OFFICE.

CHARLES A. BRYANT, OF WAKEFIELD, MASSACHUSETTS.

EGG-BEATER.

SPECIFICATION forming part of Letters Patent No. 386,105, dated July 17, 1888.

Application filed April 25, 1887. Serial No. 235,986. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. BRYANT, of Wakefield, in the county of Middlesex and State of Massachusetts, a citizen of the United States, have invented a new and useful Improvement in Egg-Beaters, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification, in explaining its nature.

The invention relates to various details of construction and organization, which will be hereinafter specified.

In the drawings, Figure 1 is a view in rear elevation of an egg-beater having the features of my invention. Fig. 2 is a view in end elevation thereof. Fig. 3 is a view in horizontal section upon the dotted line $x y$ of Fig. 1.

I have represented the invention as organized in the following way:

A represents the plate or support for the driving gear-wheel B, which is mounted thereon, and which has a knob or handle, I, by which it is operated. The plate or support A also has extending from it the frame $a b$, which preferably is of wire, and which extends to the foot a' . (See Fig. 1.) The plate or support A also has a bearing for the shaft c , which carries at its upper end the pinion C, arranged to be driven by the gear B, and which also has at its lower end a bearing in the foot a' . This shaft c carries the set of beater-blades G. They may be of round wire, or they may be of flat wire or metal. I have represented the set as having four blades or beaters arranged to extend radially from the shaft c , so that the blades are at substantially a right angle to each other. Upon the lower portion of the section a of the frame is the set of beaters E, which is like in every respect the set of beaters G, and is mounted so that the blades of the set mesh with the blades of the set G, and so that the rotation of the beaters G cause the rotation of the beaters E. There is mounted upon the lower part of the shaft b another set, F, of beaters. These are also like the beaters G, and are mounted to be rotated thereby.

The wires $a b$ are turned horizontally at $a^2 b'$

above the beaters E F, to form stops for preventing the beaters from lifting upon the wires or supports as they are operated.

I have represented the wires constituting the frame $a b$ as extended upward to form the handle H; but I do not consider this to be an essential element of the invention.

It will be seen that the beater-blades on the gear-operated spindle are so interlaced, or so mesh with the additional or auxiliary set or sets of beater-blades, that they serve not only for the purpose of beating the egg, but also for the purpose of driving the other set or sets of blades, and that the blades of the two or more sets thus cut by each other like shears by the actual contact, which not only creates a strong drawing-in action upon the semi-liquid mass of egg, but rapidly and effectively aerates and beats it.

I do not limit the invention to a beater having two sets of supplemental or auxiliary blades rotated as described, as it is obvious that a different number of such sets of auxiliary blades may be employed.

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States—

In an egg-beater, the combination, with the frame A and the driving gear-wheel B, supported thereby and provided with a crank or handle, L, of the foot a' , connected with the said frame, a shaft, c , having bearings in the said foot and frame and provided with a pinion, C, meshing with the said gear-wheel, and with a set of cutting beater-blades, G, fixed thereto, one or more sets of auxiliary beater-blades intermeshing with and thus adapted to be rotated by the positively-driven blades G, and one or more rods or wires on which the said auxiliary blades rotate, and which are connected to the said frame and foot at their ends, said rods having bends to prevent the said auxiliary blades from rising, substantially as set forth.

CHARLES A. BRYANT.

In presence of—

F. F. RAYMOND, 2d,
J. M. DOLAN.