

(No Model.)

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C. SCHREBLER.

EGG BEATER.

No. 276,290.

Patented Apr. 24, 1883.

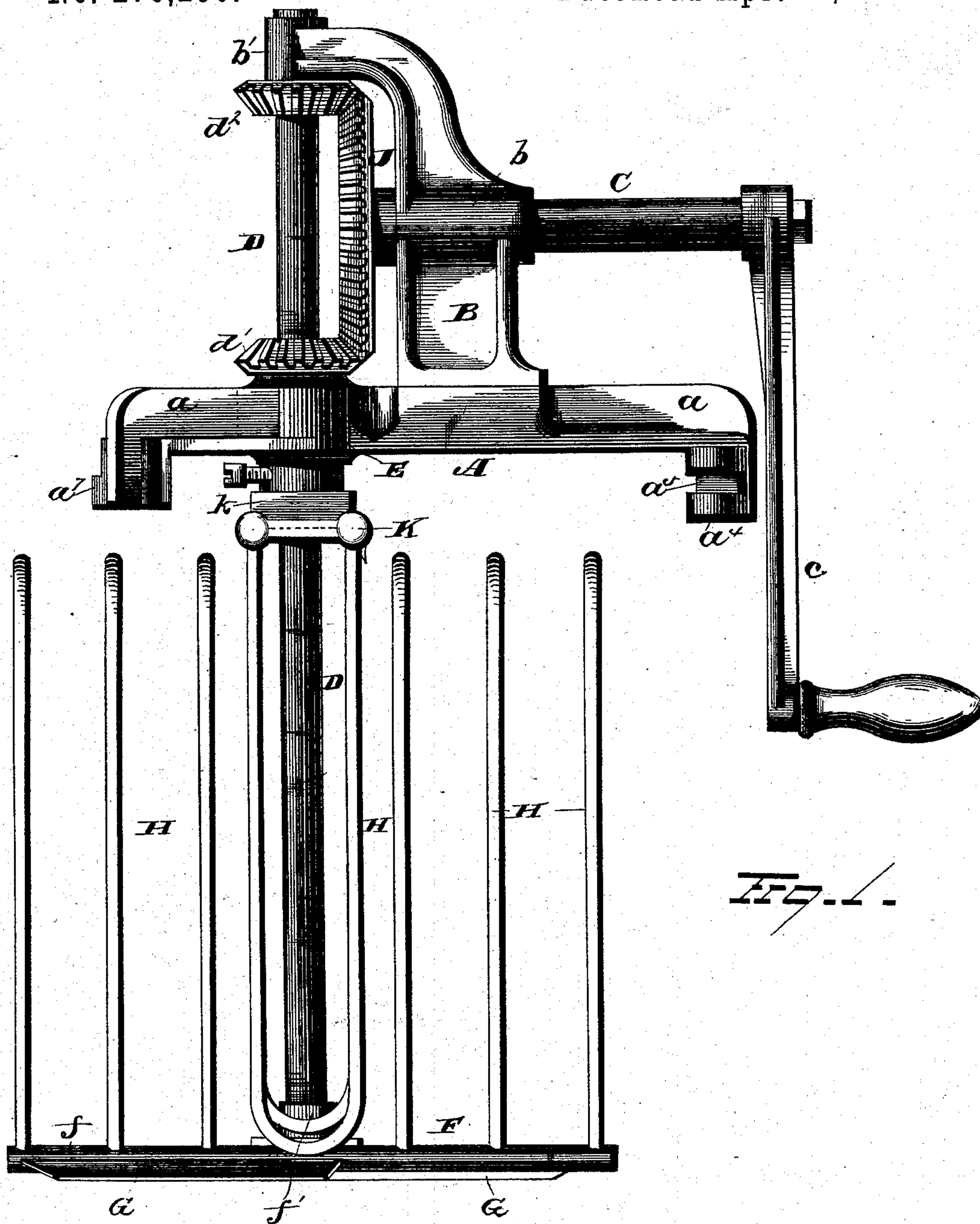


Fig. 1.

WITNESSES

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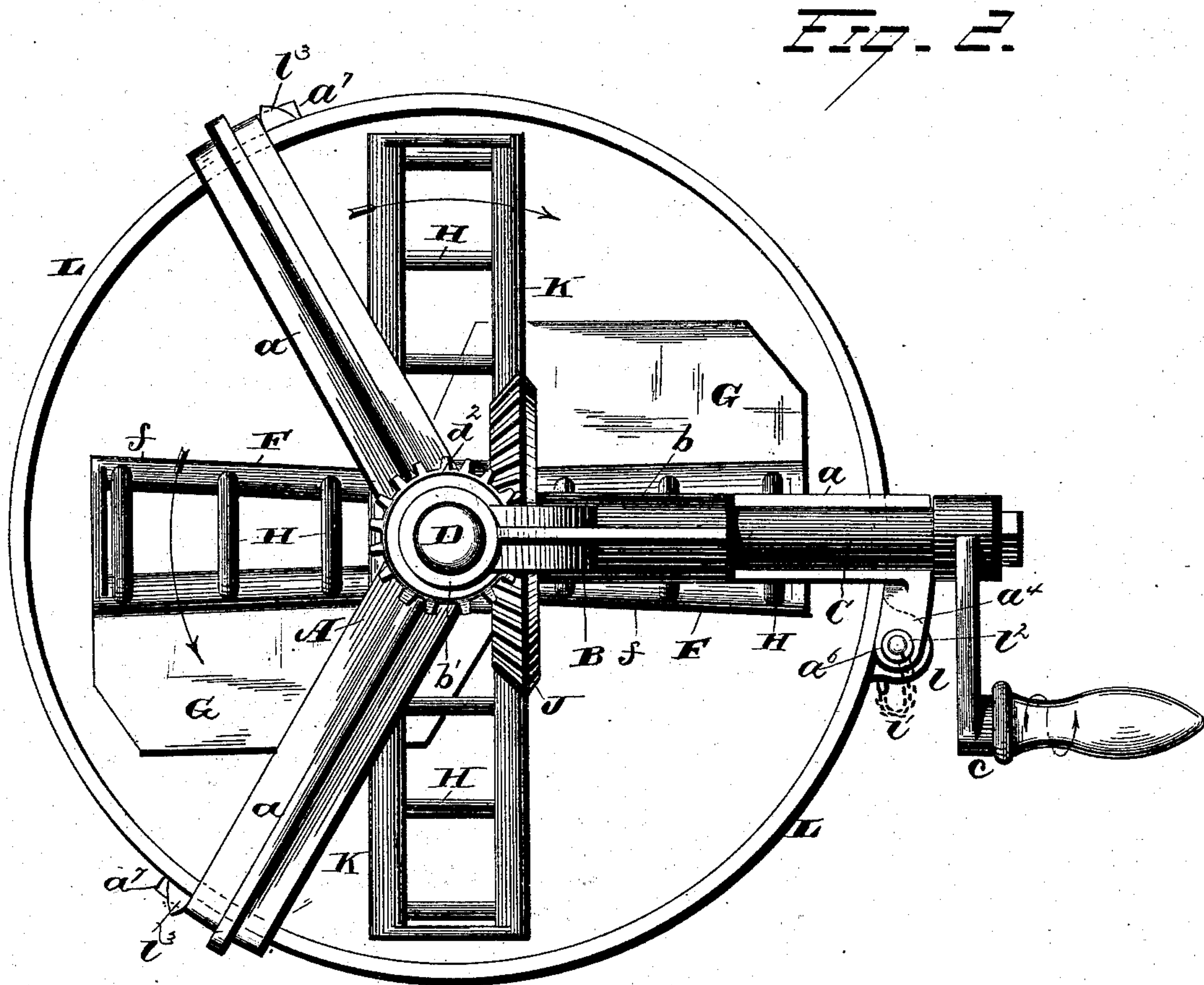
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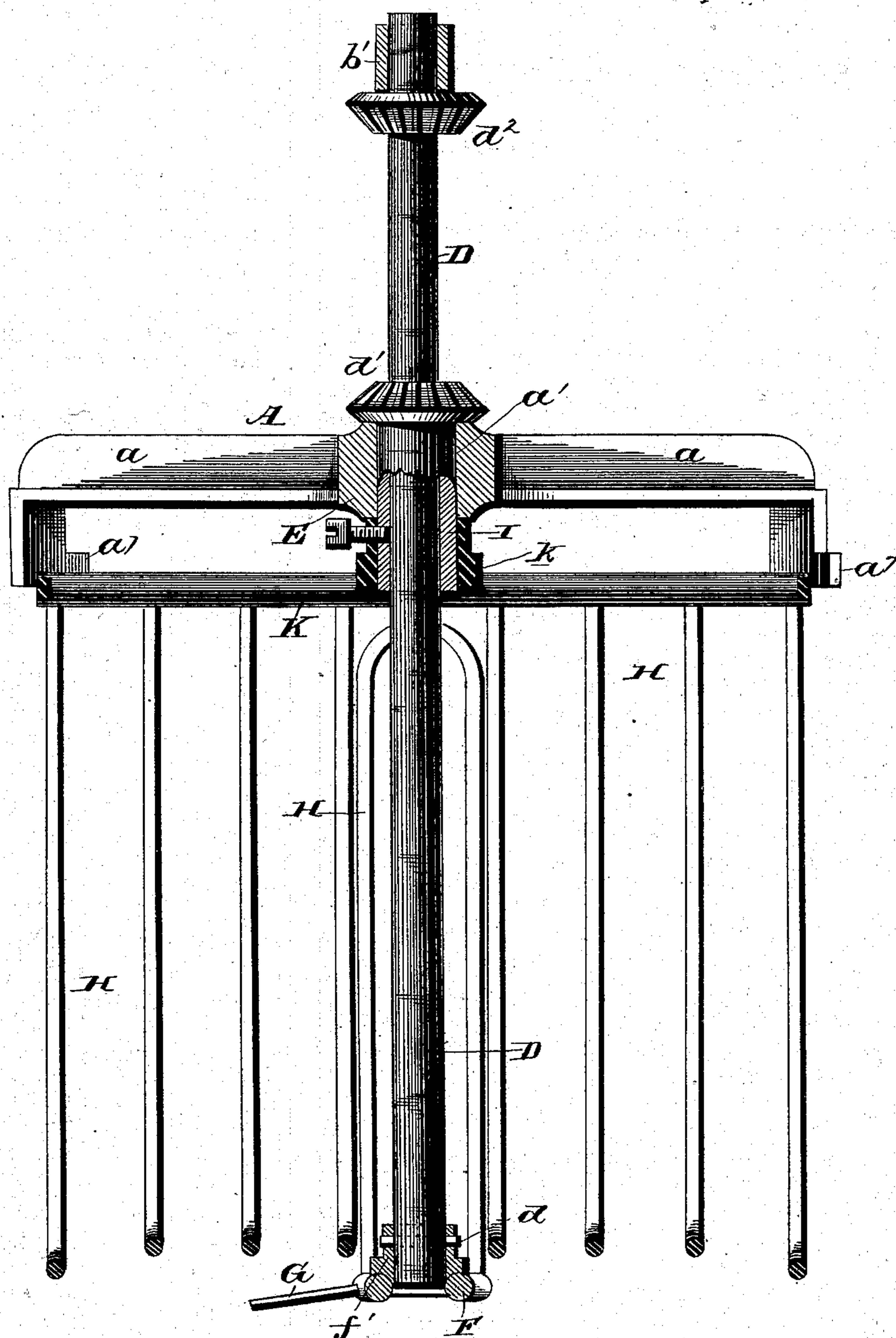
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TT-3.

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UNITED STATES PATENT OFFICE.

CHARLES SCHREBLER, OF CHAMBERSBURG, PENNSYLVANIA.

EGG-BEATER.

SPECIFICATION forming part of Letters Patent No. 276,290, dated April 24, 1883.

Application filed March 8, 1883. (No model.)

To all whom it may concern:

Be it known that I, CHARLES SCHREBLER, of Chambersburg, in the county of Franklin and State of Pennsylvania, have invented certain new and useful Improvements in Egg-Beaters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to a stirring or mixing device adapted for use as an egg-beater, a paint-mixer, or for any analogous purpose where a thorough agitation or stirring of materials is desired within a suitable receptacle.

The object of the invention is to provide a device adapted to be applied to a can, bucket, or other vessel to thoroughly stir or agitate the entire contents of the latter, and to effectually prevent the clogging of the material or its adherence to the bottom of the vessel.

The invention consists in the novel construction of stirrer hereinafter fully described, and in the improved devices for securing the same to a can or other vessel.

The invention further consists in the combination, with one of the revolving stirrers, of scraper-blades adapted to prevent the adherence of the material being stirred to the bottom of the vessel.

The invention further consists in the combinations of parts hereinafter fully described, and pointed out in the claims.

In the drawings, Figure 1 is a perspective view of my improved stirrer. Fig. 2 illustrates the same applied to a can, and Fig. 3 represents a longitudinal section of the stirrer.

A represents a supporting-frame consisting of radial arms *a*, adapted to be secured to a can or other vessel, and an upwardly-projecting bracket, B, secured to one of said arms, and having a bearing, *b*, for a horizontal crank-shaft, C, and at its upper end a bearing, *b'*, to receive the upper end of a vertical shaft, D. The latter extends downwardly through a sleeve, I, supported in an opening or bearing, *a'*, of the central portion or hub, E, of the arms *a*, and to its lower end is secured the lower revolving stirrer, F. This stirrer F is formed with a frame, *f*, provided centrally with a socket, *f'*, which receives the lower end of the shaft D, to which it is secured by a pin, *d*, or otherwise.

G G represent scraper-blades secured on opposite sides of the frame *f* and diagonally opposite each other. These scrapers are downwardly inclined slightly to adapt them to scrape the material from the bottom of the vessel when the stirrer is revolved.

H represents upwardly-arched stirring-blades secured to the frame *f*, parallel with one another, and at such a distance apart as to admit of the free passage between them of similar stirring-blades depending from an upper stirrer, as will be further explained. The sleeve I, supported in the bearing *a'* of the frame, is provided with a bevel-gear wheel, *i*, arranged opposite to a similar gear-wheel, *d*², secured upon the shaft D, and with these wheels *i* and *d*² meshes a vertical gear-wheel, J, mounted upon the inner end of the crank-shaft C, the opposite end of the latter being provided with a crank, *c*.

To the lower end of the sleeve I is secured the socket *k* of the upper revolving stirrer, K, whose construction is similar to that of the stirrer F, already described. As above stated, the depending arched or U-shaped stirrer-blades of this upper stirrer, K, extend between those of the lower stirrer, F.

L represents a can or vessel to which my stirring device is to be attached, provided with a perforated lug, *l*, to which is secured, by a chain, *l'*, a pin, *l*². The can is also formed with one or more catches or lugs, *l*³, the number corresponding to the number of arms *a* of the stirrer-frame. One of these arms *a* is provided, at its outer end, with a right-angular extension, *a*⁴, horizontally slotted, as shown at *a*⁵, to receive the perforated lug *l* of the can, and having a vertical opening, *a*⁶, to receive the pin *l*². Each of the other arms *a* is formed with a right-angular lug, *a*⁷, adapted to be secured under the corresponding lugs or catches, *l*³, of the can.

The device, having been inserted into the can, and secured, as thus described, by the engagement of the arms *a* with the edge and lugs of the can, is operated by the crank *c*.

It will be apparent that the gearing of the wheel J with the oppositely-arranged bevel-gear wheels *i* and *d*² will serve to revolve the shaft D and sleeve I and the stirrers secured thereto in opposite directions, the U-shaped blades of the lower stirrer passing between

those of the upper one, and the scrapers of the lower stirrer preventing all clogging or adherence of the material to the can.

It will be obvious that my improvement is adapted to a variety of uses, and that many slight alterations as to the details of construction might be resorted to without departing from the spirit of my invention; hence I do not limit myself to precisely the construction here shown and described; but,

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

1. The combination, with a stirring device adapted to be secured to a can or other vessel, of oppositely-arranged scrapers serving to prevent the adherence of material to the bottom of the can or vessel, substantially as set forth.

2. The combination, with a can provided with a perforated lug and catches, of a stirring device, whose arms are adapted to embrace the edge of the can and engage said catches,

one of said arms having a slotted lug to receive said perforated lug and be secured thereto by a pin, substantially as set forth.

3. The combination, with the oppositely-revolving stirrers provided with intermoving blades, of oppositely-arranged scrapers, secured to the lower stirrer, substantially as set forth.

4. The combination, with a stirrer-shaft, of a stirrer consisting of a horizontal frame provided with a socket to receive said shaft, and projecting U-shaped blades, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

CHARLES SCHREBLER.

Witnesses:

G. F. DOWNING,
C. S. DRURY.