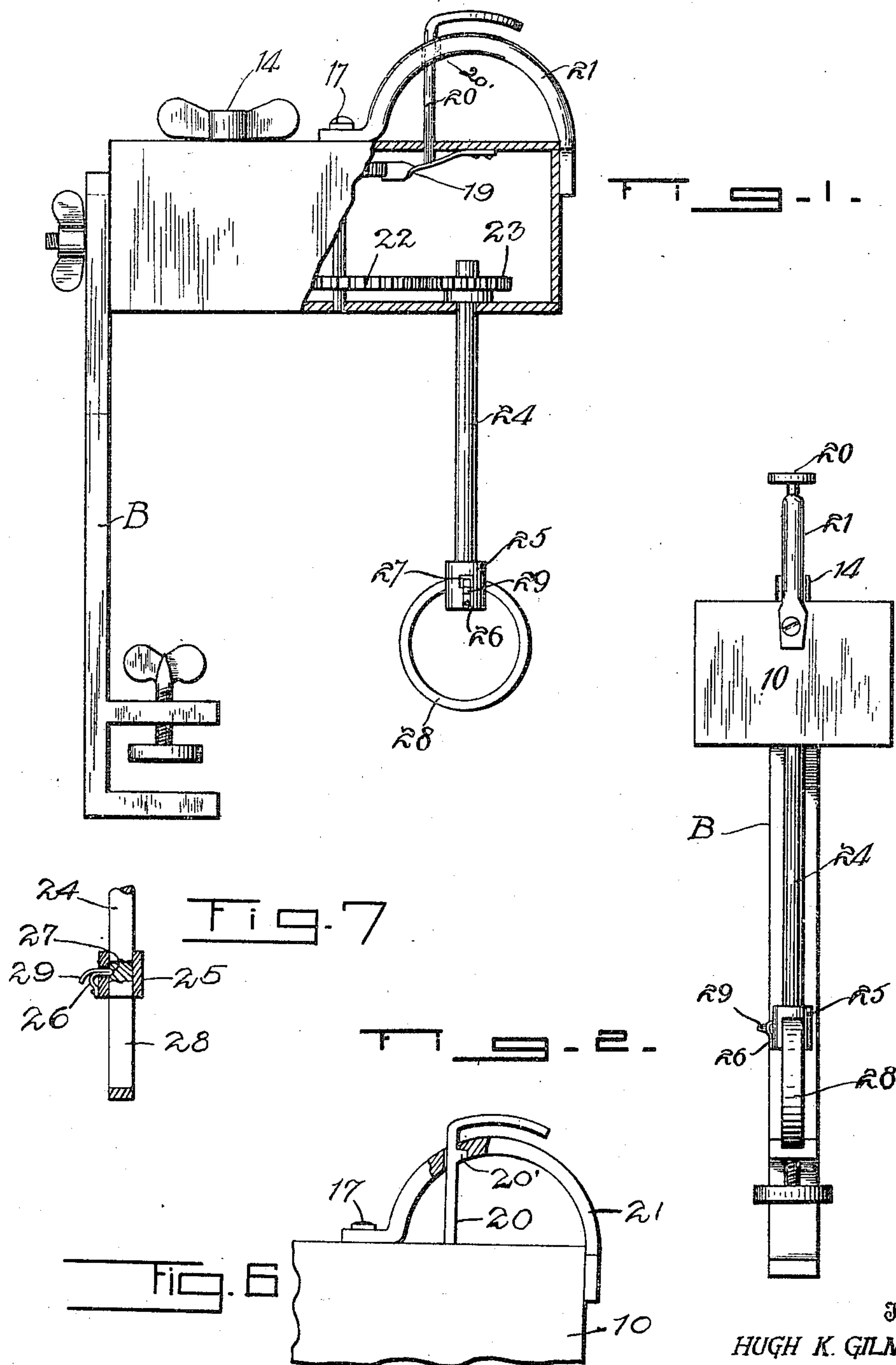


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EGG BEATER AND CREAM WHIPPER.
APPLICATION FILED FEB. 15, 1909.

959,731.

Patented May 31, 1910.

2 SHEETS—SHEET 1.



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FIG. 3.

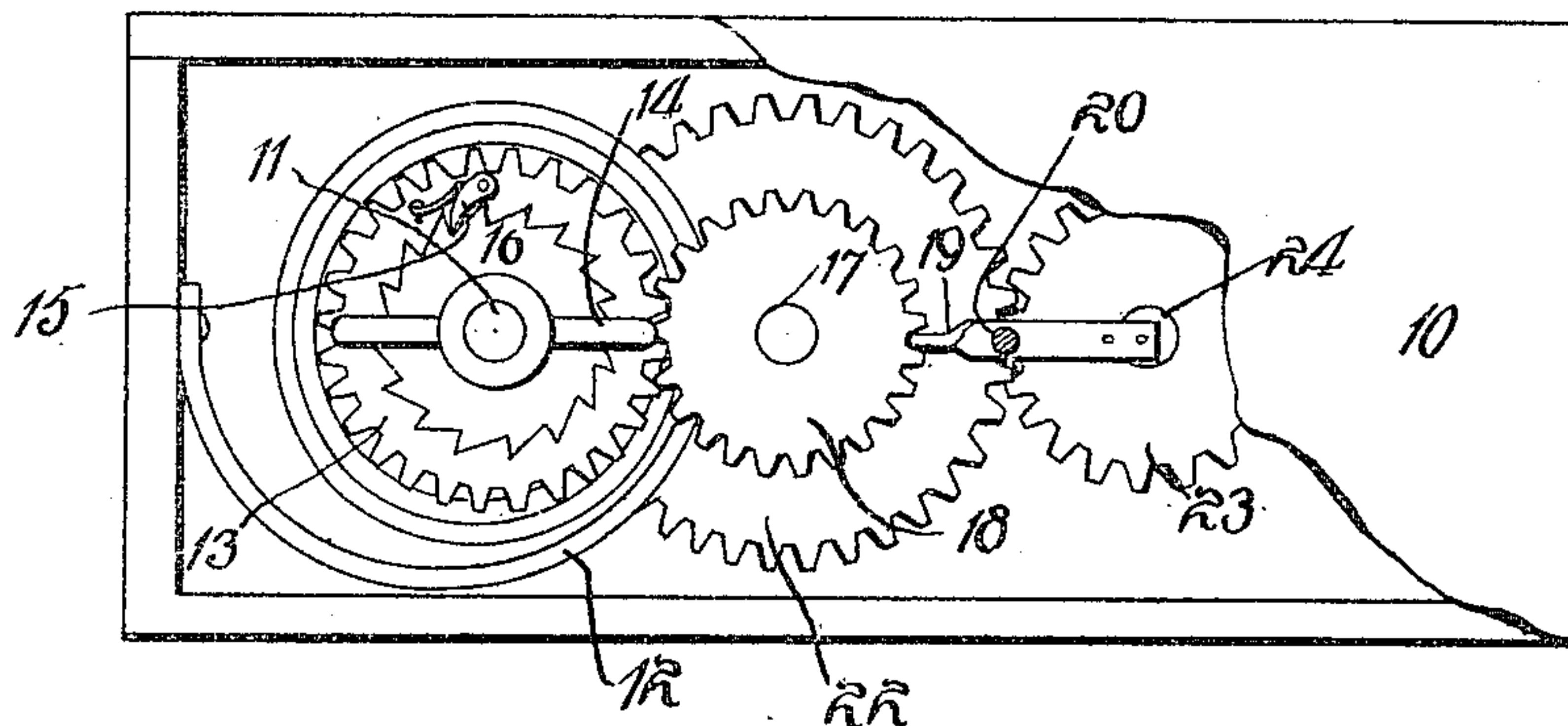


FIG. 5.

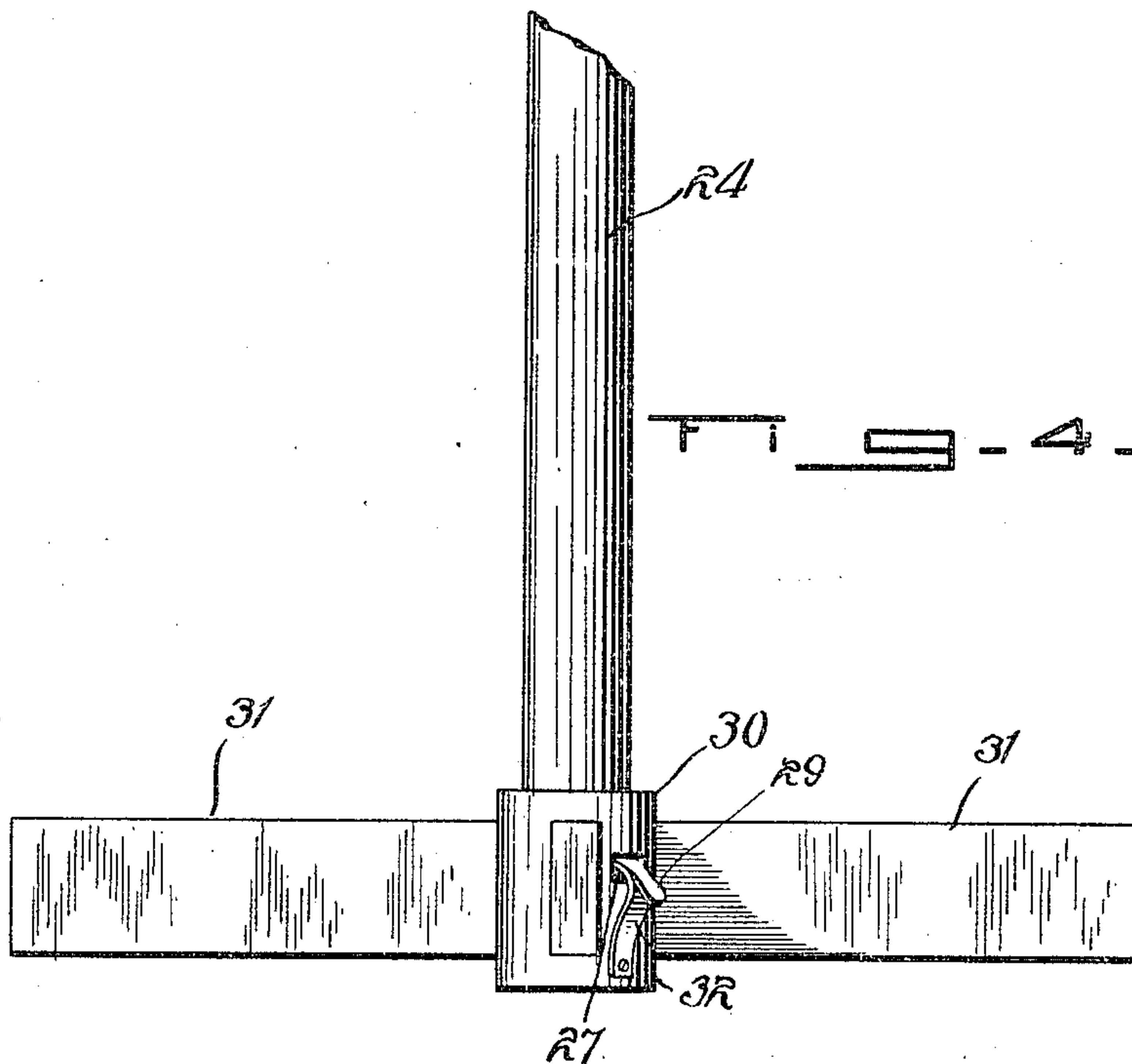
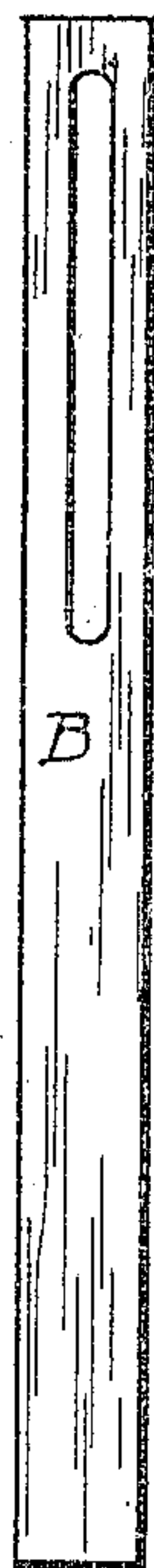


FIG. 4.

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HUGH KERR GILMOUR, OF OWENSBORO, KENTUCKY.

EGG-BEATER AND CREAM-WHIPPER.

959,731.

Specification of Letters Patent.

Patented May 31, 1910.

Application filed February 15, 1909. Serial No. 477,954.

To all whom it may concern:

Be it known that I, HUGH KERR GILMOUR, a citizen of the United States, residing at Owensboro, in the county of Daviess and State of Kentucky, have invented certain new and useful Improvements in Egg-Beaters and Cream-Whippers, of which the following is a specification.

This invention relates to kitchen articles, and refers especially to that class of devices known as egg beaters and cream whippers.

An object of this invention is to produce a device of this character which may be employed as an egg beater and cream whipper.

Another object of this invention is the provision of a device of this character which carries means for mechanically operating the same to enable the operator to hold the implement in the material to be stirred in the desired position without danger of spilling the same.

The invention has for a further object the provision of a device of this character which is of simple construction and operation, is light and easily handled and comprises but few parts to enable the economical manufacture of the same.

Other objects and advantages will be apparent from the following description and it will be understood that changes in the specific structure shown and described may be made within the scope of the claims without departing from the spirit of the invention.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a side elevation of the device having the egg-beating attachment applied thereto, Fig. 2 is an end view of the same, Fig. 3 is a top plan view of the device showing the casing partially broken away, Fig. 4 is a detailed view of the stem with the cream-whipping attachment applied thereto. Fig. 5 is a detailed side view of the bracket B. Fig. 6 is a fragmentary view partly in section of the handle and push rod. Fig. 7 is a similar view showing the means of securing the collar upon the rotary stem.

Referring to the drawings, 10 designates

a casing which is of substantially rectangular formation and in one end of which is mounted an arbor 11. Disposed about the arbor 11 is a spring 12 of spiral formation which is secured at its inner extremity to the arbor 11 and which is secured to the casing 10 at its outer extremity. The arbor 11 is also provided with a gear 13 loosely mounted upon the same and which is adapted to be rotated through the medium of the arbor 11 by the spring 12. The arbor 11 is provided with a winged nut 14 for the purpose of winding the spring and the usual pawl 15 and ratchet 16 are employed for the purpose of locking the gear 13 upon the arbor 11 to operate the device.

Within the casing 10 adjacent the arbor 11 and in parallel relation thereto is mounted a stub shaft 17 which carries a pinion 18 which is meshed with the gear 13 and by means of which the stub shaft 17 is adapted to be rotated. For the purpose of locking the stub shaft 17 and arbor 11 from rotation when desired, a leaf spring 19 is employed which is secured to the inner face of the casing 10 and has its free extremity engaged with the teeth of the pinion 18 for the purpose of preventing the movement of the same. The spring 19 is provided with a push rod 20 which extends upwardly through the casing 10 through a slot in a handle 21 rigidly secured upon the upper face of the casing 10. A second gear 22 is rigidly keyed to the stub shaft 17 and is meshed with a second pinion 23 which is keyed upon a stem 24 rotatably disposed within the casing 10 and extended downwardly through the bottom thereof. The lower extremity of the stem 24 is adapted to receive a circumscribing collar 25 which is held rigidly in position upon the stem 24 by means of a spring-actuated dog 26 which extends inwardly of the collar 25 and engages in a seat 27 formed in one side of the stem 24. The circumscribing collar 25 is provided with an agitator in the form of an egg beater which comprises a strip of spring metal 28 bent into circular formation and secured at its extremities to the opposite sides of the sleeve 25. For the purpose of admitting of the removal of the sleeve 25, the dog 26 is provided with an outwardly

extending lip 29 which is adapted to be engaged by the operator and drawn outwardly before the sleeve 25 can be withdrawn from the stem 24.

- 5 In Fig. 4 of the drawings the stem 24 is disclosed as carrying a sleeve 30 which is provided with radially extended arms 31 being so formed as to present flat lateral faces for the purpose of greater agitation of the material in which the same is adapted to be placed. The sleeve 30 is provided with a dog 32 for the purpose of engaging in the seat 27 upon the stem 24 to secure the sleeve 30 rigidly in position.
- 10 In use the operation of the device is as follows: The spring 12 is wound by means of the operation of the thumb nut 14 while the operator holds the casing 10 in position by grasping the handle 21. When it is desired to set the stem 24 in motion, the push rod 20 is depressed by engagement of one of the fingers of the operator to disengage the spring 19 from the pinion 18 and to thereby release the train of gears to cause the rotation of the stem 24. When it is desired to position the egg beater upon the lower extremity of the stem 24 the lip 29 is drawn outwardly by the thumb of the operator and held in such position while the sleeve 25 is secured over the extremity of the stem 24 when the lip 29 is released and the dog 26 is permitted to engage in the seat 27 of the stem 24 and to thereby hold the sleeve 25 against rotative or longitudinal movement.
- 20 To move the sleeve 25 from position, the lip 29 is drawn outwardly while at the same time the sleeve is disengaged from the extremity of the stem 24. In like manner the sleeve 30 may be positioned upon the lower extremity of the stem 24.

The character B indicates a vertically adjustable clamp member carried by the casing of the beater, and adapted for engagement with a table to support the beater at various heights thereabove, so that the device may be placed in operation and not require further attention.

By pressing the rod 20 downwardly and turning it laterally, the projection 20' thereon is engaged against the under side of the handle to hold the device in constant operation until the rod 20 is released, as will be apparent.

What is claimed is:—

- 55 1. In a device of the character described, the combination of a casing, a rotatable stem mounted in said casing and depending therefrom, a spring mechanism disposed in said casing and connected to said stem to actuate the same, a handle secured to the exterior of said casing, a vertically movable rod extending through said handle and casing normally adapted to hold said stem from

rotation, and an agitator removably secured to the lower extremity of said stem. 65

2. In a device of the character described, the combination with a casing, of a rotatable stem mounted in said casing and depending therefrom, a spring mechanism disposed in said casing and connected to said stem to actuate the same, a handle secured to the exterior of said casing, a vertically movable rod extending through said handle and casing, means secured within the casing normally holding said stem against rotation, said means being engaged by the lower end of said rod to actuate said stem, said rod having a projection formed thereon adapted to engage with said handle during the rotation of said stem. 70 75 80

3. In a device of the character described, the combination with a casing, of a stem mounted in said casing and depending therefrom, a spring mechanism disposed in said casing and connected to the stem to actuate the same, a handle secured to the exterior of said casing, a stop secured to the interior of said casing normally adapted to hold said stem against rotation, a vertically movable rod extending through said handle and casing, the lower end of said rod being engaged with said stop and adapted to depress the same, said rod being laterally movable, a stud integrally formed with said rod adapted to engage with said handle to retain the same in its depressed position during the actuation of said stem, an agitator detachably disposed upon the lower extremity of said stem, and a spring pressed stud carried by said agitator adapted to engage in a recess formed in the stem to retain the agitator in position thereon. 85 90 95 100

4. In a device of the character described, the combination with a casing, of an arbor vertically mounted in said casing, a spiral spring secured to said arbor and casing, a gear loosely mounted on said arbor, a ratchet rigidly secured on said arbor, a pawl carried by said gear and engaged with said ratchet to lock said gear upon the arbor, a shaft disposed in said casing, a pinion on said shaft meshed with said gear, a gear carried by said shaft, a stem mounted in said casing, a pinion on said stem meshed with said last mentioned gear, an agitator detachably secured to the lower extremity of said stem, and a vertically movable rod adapted to lock said stem against rotation. 105 110 115

5. A device of the character described comprising a casing, an arbor mounted in said casing, a spiral spring secured to said arbor and said casing, a gear loosely mounted on said arbor, means for locking said gear thereon, a shaft mounted in said casing, a pinion on said shaft meshed with said gear, a gear carried by said shaft, a stem 120 125

mounted in said casing and depending there-
from, a pinion on said stem meshed with
said last mentioned gear, a handle secured
to the exterior of said casing, a stop secured
5 in said casing normally engaged with the
pinion on said shaft, a rod extending
through said handle and casing adapted to
release said pinion, and an agitator detach-

ably secured to the lower extremity of said
stem. 10

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

HUGH KERR GILMOUR.

Witnesses:

E. A. HELMKE,
J. M. MURPHY.