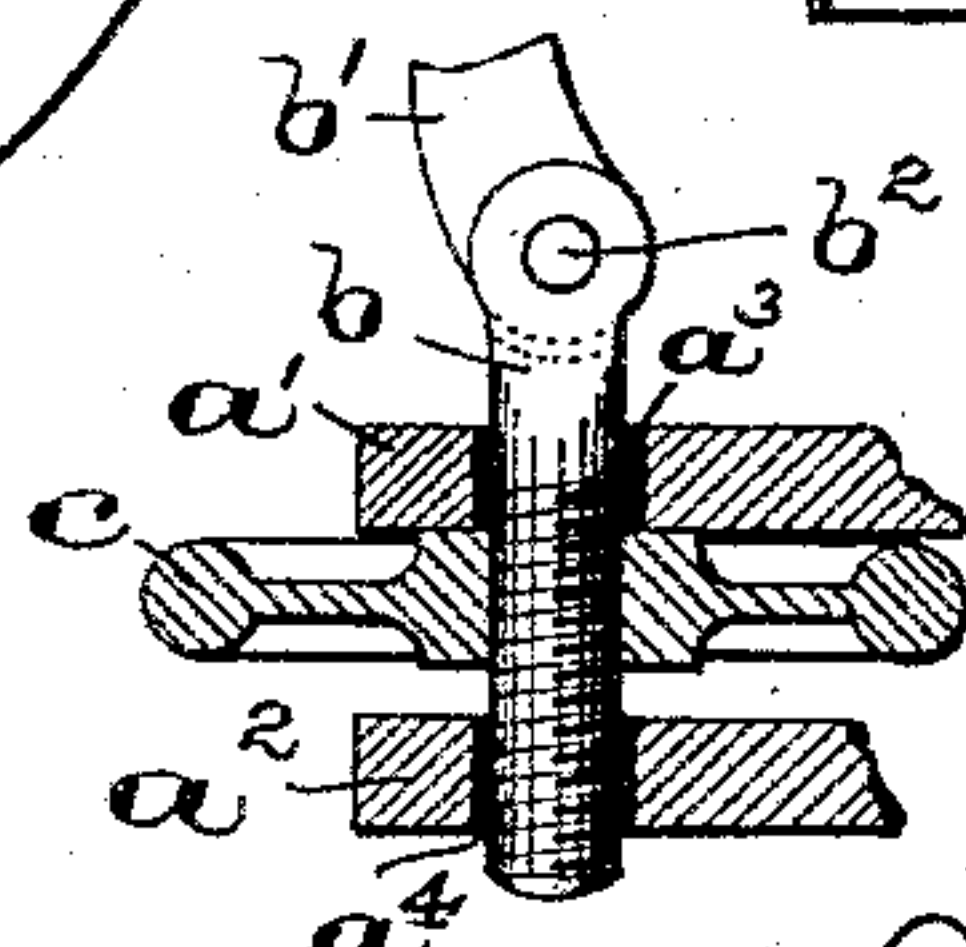
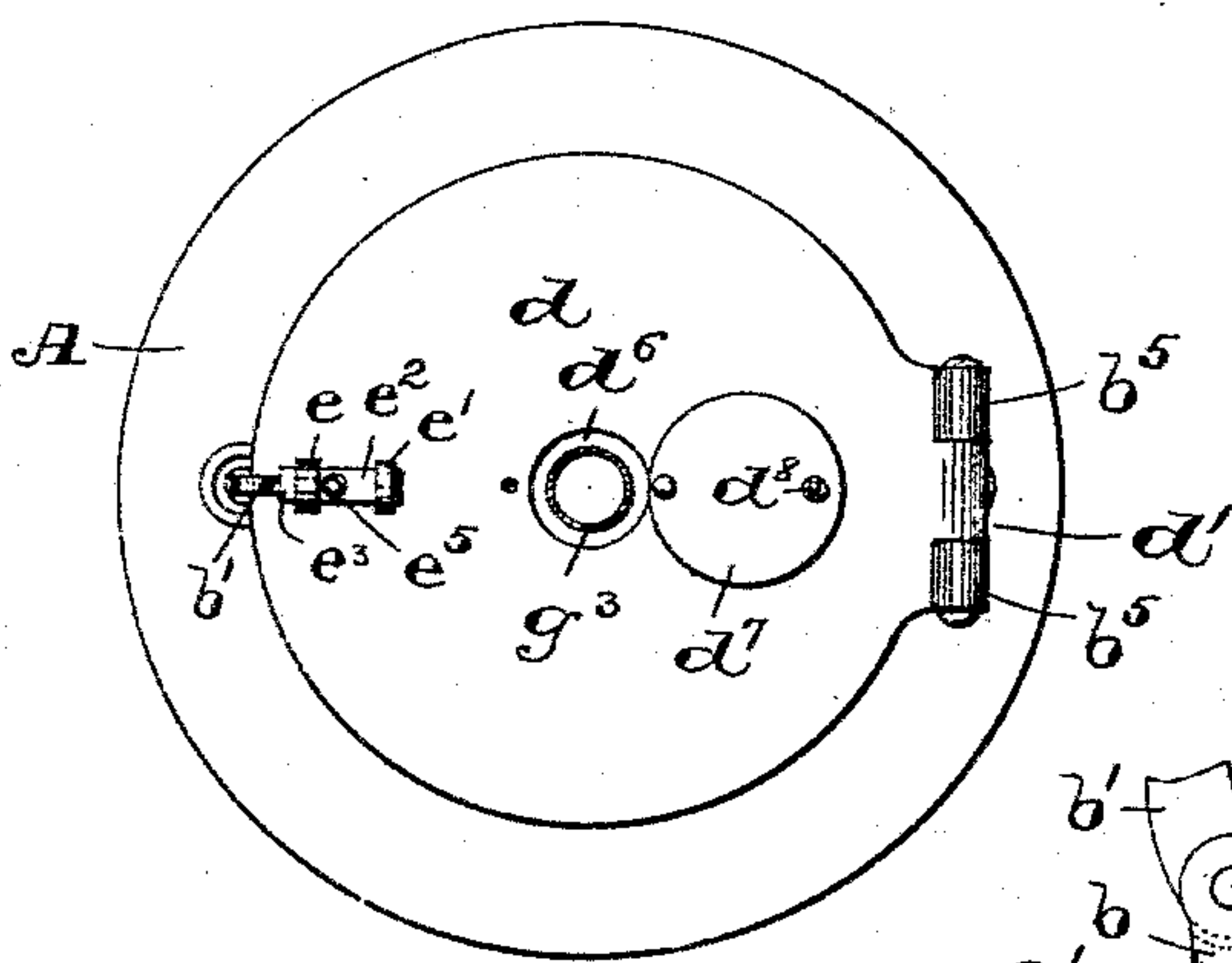
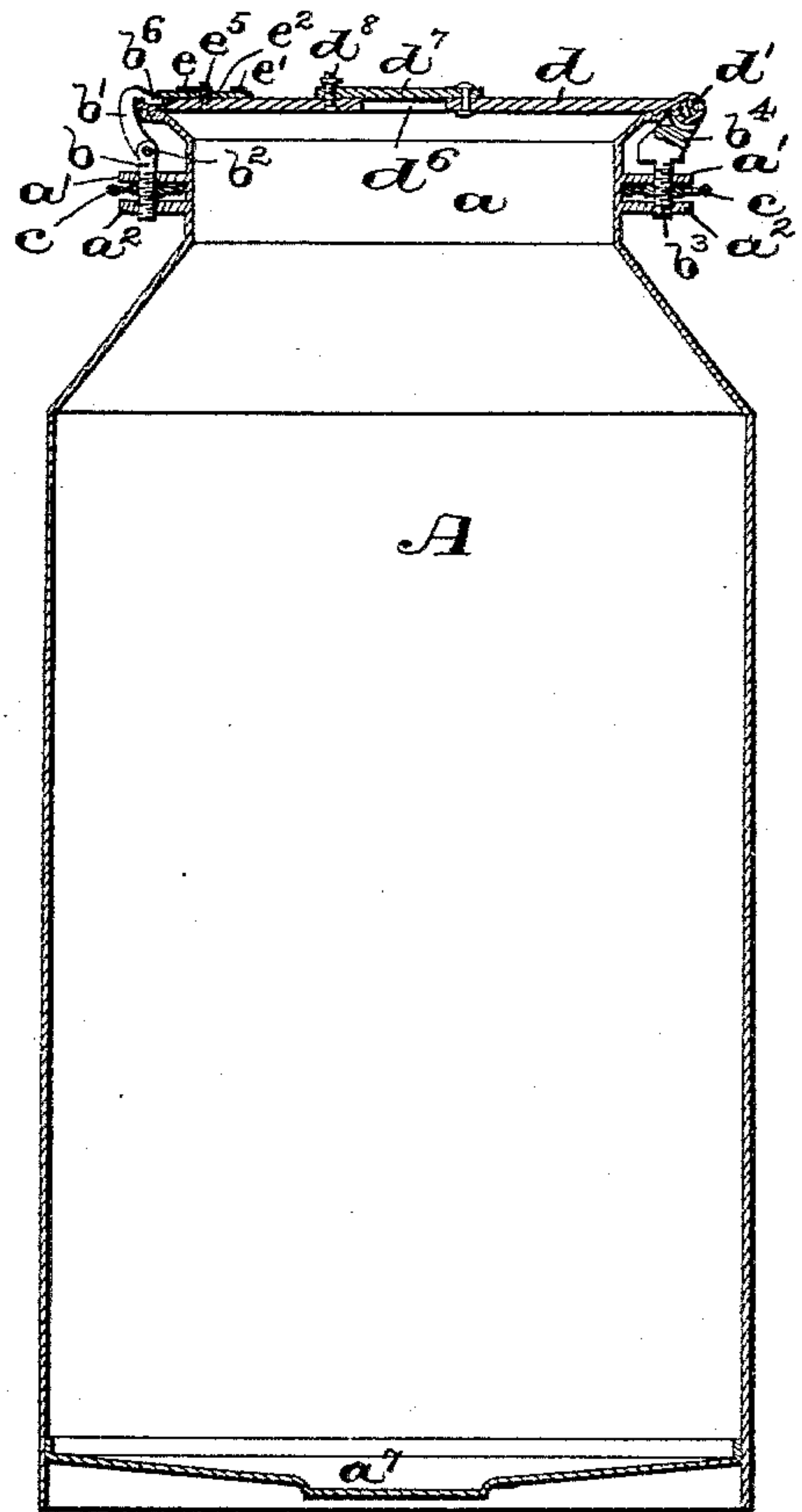
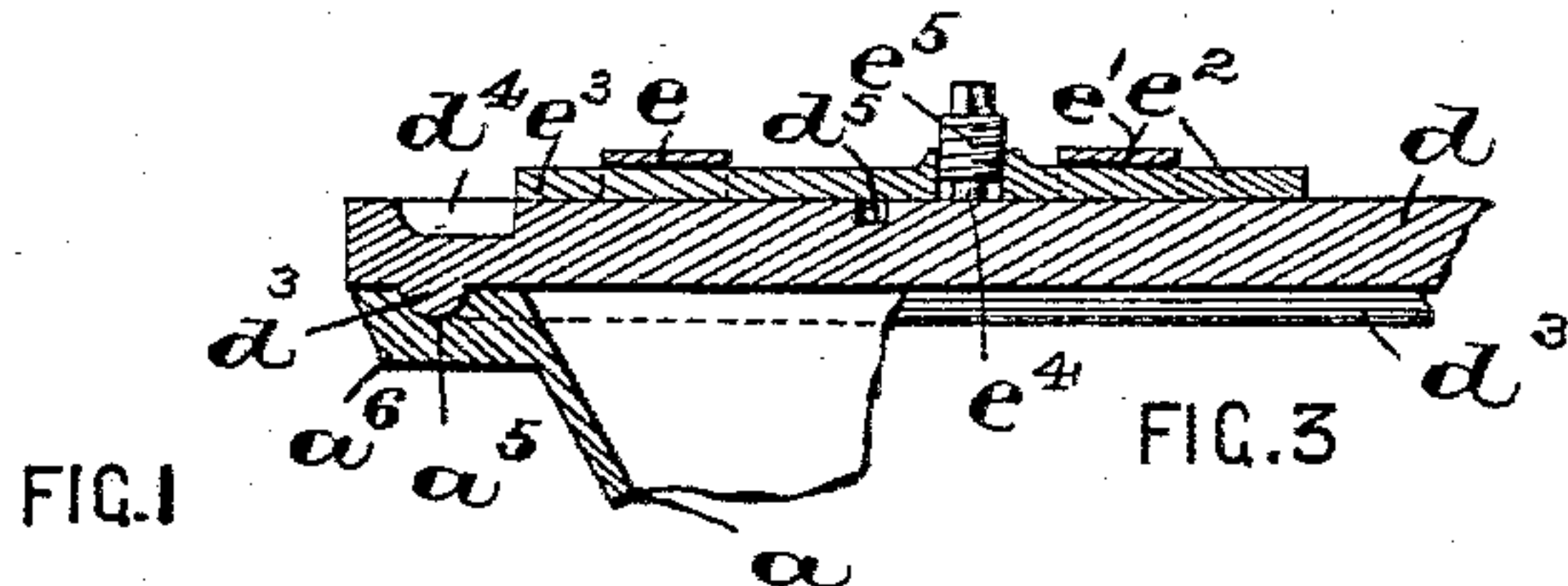
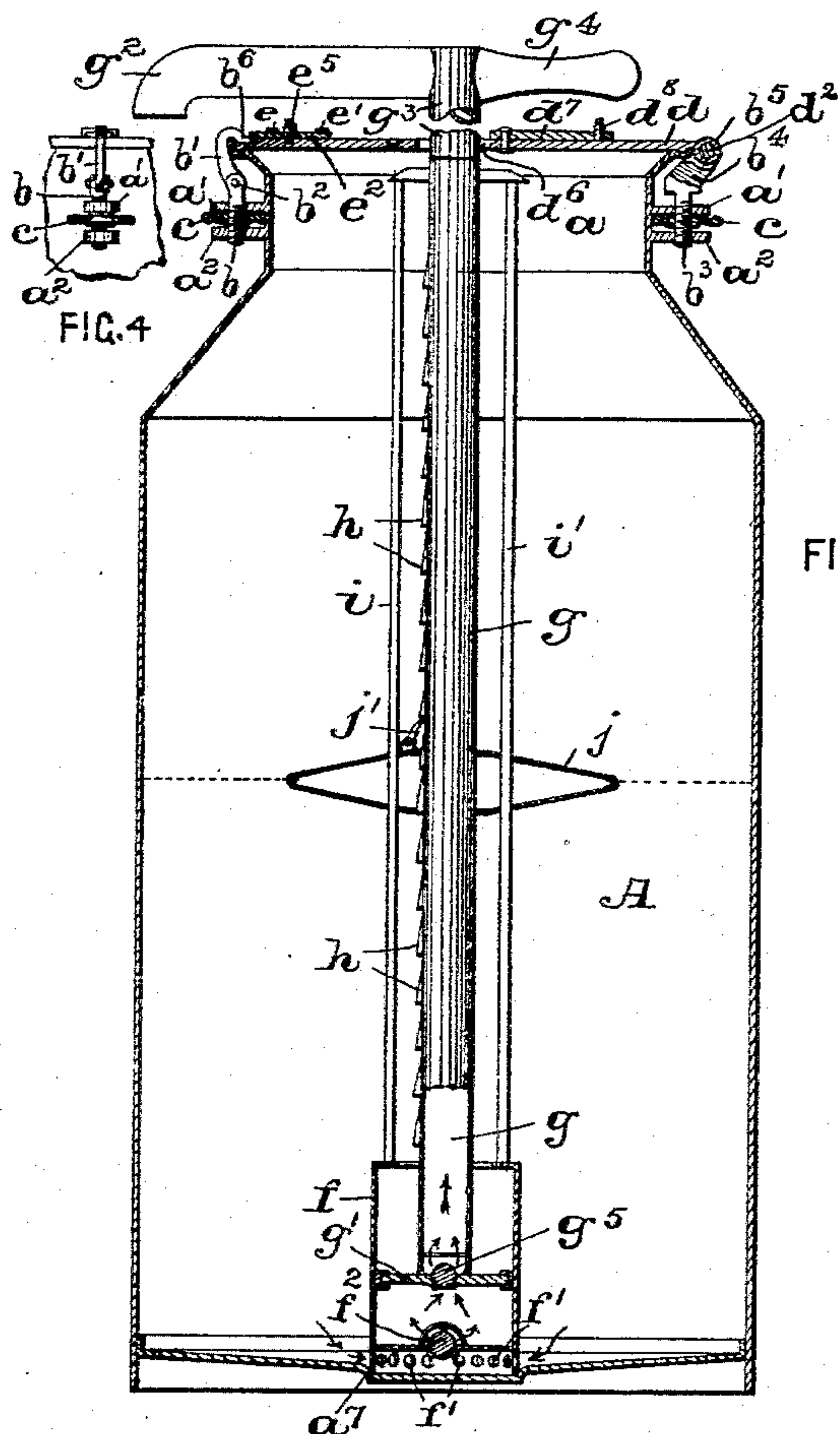


(No Model.)

H. BOKELMANN.  
SHEET METAL CAN.

No. 533,578.

Patented Feb. 5, 1895.



WITNESSES:

FIG. 2

FIG. 5

INVENTOR:

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# UNITED STATES PATENT OFFICE.

HERMAN BOKELMANN, OF NEWARK, NEW JERSEY.

## SHEET-METAL CAN.

SPECIFICATION forming part of Letters Patent No. 533,578, dated February 5, 1895.

Application filed June 29, 1894. Serial No. 516,040. (No model.)

*To all whom it may concern:*

Be it known that I, HERMAN BOKELMANN, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Sheet-Metal Cans; 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in sheet metal cans, and has for its primary object to provide a can for the carrying of liquids, such as milk and the like.

A further purpose of the invention is to provide a lid or cover hinged to the side of the can, and fastened down by means of a suitable clamping device, when desired.

Furthermore, the invention has for another object, the arrangement of a pump to be used in connection with the can, whereby the liquid can be drawn from the interior of the can without removing the cover.

Figure 1 is a vertical section of the can, comprising therein the several novel features of construction and arrangement of parts embodying the principles of my invention. Fig. 2 is a plan view of the can and cover. Fig. 3 is a detail sectional view of part of the cover and a locking bolt connected therewith. Fig. 4 is a side view of one of the clamps; and Fig. 5 is a detail section of the clamp-bolt and a hand wheel connected therewith, for tightly forcing the clamp down upon the cover of the can. Fig. 6 is a vertical section of the can, in which the liquid pump has been dispensed with.

Similar letters of reference are employed in said above described views to indicate corresponding parts.

The invention consists in the novel form of sheet metal can herein shown, as a new article of manufacture, and further, in certain details of construction and combinations of parts, as will be hereinafter more fully described and finally embodied in the clauses of the claim.

In said drawings A represents a metal can of any desired form and size, made of sheet

metal, and provided on opposite sides of the neck  $a$  with suitable lugs or ears  $a'$  and  $a^2$ , substantially as shown in Figs. 1, 4 and 5.

As will be seen more especially from Fig. 5, the upper ear  $a'$  is provided with a hole  $a^3$  having a smooth bore, while in the lower ear  $a^2$  is a hole  $a^4$ . A clamp-bolt  $b$  is passed through said hole  $a^3$  in the ear  $a'$  and through the hole  $a^4$  in the ear  $a^2$ , and rotatively arranged on a screw-thread on said bolt, between said ears, is a suitable hand wheel  $c$ .

As will be seen from Figs. 1 and 6, the bolt  $b$  to the left of the drawings is provided with a hook-shaped clamping rod  $b'$  pivotally connected at  $b^2$  with said bolt  $b$ , while the bolt  $b^3$ , at the right of the drawings, is provided with an arm  $b^4$  having pintle-bearing ears  $b^5$ , between which is pivotally arranged an ear  $d'$  of the cover or lid  $d$ , said parts being held together by means of a suitable pin  $d^2$ . Said cover is preferably provided on its under side with an annular projection or bead  $d^3$ , which, when the lid is closed, fits snugly in a correspondingly arranged groove  $a^5$  in the surrounding rim  $a^6$  of the neck of the can, as will be clearly seen from Fig. 3. When said lid or cover is closed and it is desired to firmly clamp the cover down to prevent the same from being opened by accident, and thereby spilling the contents of the can, all that is necessary, is to turn the hand wheels  $c$  on said bolts  $b$  and  $b^3$ , whereby the hook-shaped end of the clamping rod  $b'$  and the arm  $b^4$  cause said lid or cover to be tightly brought down upon the surrounding edge of the neck of the can to seal the same. Said lid or cover  $d$  is preferably provided with suitable guides  $e$  and  $e'$  in which slides a lock-bolt  $e^2$ , as shown in Fig. 3. The hook-end of the clamping rod  $b'$  can be arranged in a depression  $d^4$  formed in the top of the lid  $d$ , and the free end  $b^6$  of the hook on said rod  $b'$  is flattened, as shown, to bring it flush with the upper surface of the lid. When the lid has been fastened down, as above stated, the bolt  $e^2$  is pushed forward, thereby bringing its free end  $e^3$  directly above said end  $b^6$  of the clamping hook on said rod  $b'$ . At the same time, the end  $e^4$  of a screw-threaded stud  $e^5$  is brought directly above the depression  $d^5$  in the lid and by screwing the lower end of said stud into said depression, the bolt  $e$  is immovably held in its locked po-



sition above the hook-end of the clamping rod  $b'$ , as will be clearly understood from an inspection of Fig. 3. Said lid  $d$  may also be provided with a central opening  $d^6$  above which is a pivotally arranged plate  $d^7$  provided with a screw-stud  $d^8$ , similar in construction to the stud  $e^5$ , whereby said plate or disk  $d^7$  can be turned over said opening  $d^6$  in the lid and firmly held in its closed position by said screw-stud, as will be understood. Said disk or plate  $d^7$  is not absolutely essential, but it is of great use to remove the liquid in the can, without disturbing the clamping devices connected with the can and the opposite edges of the lid  $d$ .

The can may be provided with any suitable form of lift pump for drawing the liquid from the can. The pump illustrated in the present case, consists essentially of a cylinder  $f$  arranged in a recess  $a^7$  in the bottom of the can. Said cylinder is open at the bottom, being preferably provided with inlet holes  $f'$  and a suitable valve  $f^2$  through which the liquid passes into the chamber directly beneath the piston  $g'$  on the tubular piston rod  $g$ . Said rod  $g$  is connected at the top with a removable tube  $g^3$  having an outlet  $g^2$  and a handle  $g^4$ .

From Fig. 1, it will be seen, that when the piston rod is operated, the valve  $f^2$  and the valve  $g^5$ , will open and close, respectively, to permit the liquid in the can to be forced into the tubular piston rod and thence from its outlet  $g^2$ . The upper portion of said rod may be removed at will, to permit the closing of the plate or disk  $d^7$ , or to permit the swinging open of said lid or cover  $d$ , when necessary. Said piston rod  $g$  may be provided with teeth or serrations  $h$  on the one side of said tube, and loosely arranged to slide on said rod  $g$  and on suitable guide rods  $i$  and  $i'$  is a sheet metal float  $j$  provided with a catch  $j'$ , substantially as shown in said Fig. 1. Said float, will always float upon the surface of the liquid in the can, with the said catch  $j'$  in holding contact with one of the teeth  $h$  on said rod  $g$ . When the said rod  $g$  is pushed down, the catch  $j'$  will force the float beneath the surface of the liquid, thereby thoroughly stirring or mixing the liquid, while the pump is being operated. As soon as the rod  $g$  moves upwardly, the float  $j$  will of its own accord float to the surface of the liquid, but when the rod  $g$  is again pushed down, the catch  $j'$  will also force the float beneath the surface of the liquid.

It will be observed that cans constructed in accordance with my invention are strong and durable, and when the lid  $d$  is firmly held in place, there is no danger of spilling the contents of the can in case it is upset.

The can is especially adapted for use as a milk can.

Having thus described my invention, what I claim is—

1. A sheet metal can, having lugs or ears on the sides of its body, a bolt having a pintle-

bearing arm arranged in said ears on one side of the can, a lid or cover hinged to said pintle-bearing arm, a clamp-bolt in said ears on the opposite side of the can, adapted to be clamped down over the edge of the lid when closed, and hand wheels  $c$  on said bolts, substantially as and for the purposes set forth.

2. A sheet metal can, having a pair of lugs or ears on the sides of its body, a bolt adjustably arranged in said ears on one side of the can, and having a pintle-bearing arm, a lid or cover hinged to said pintle-bearing arm, a clamp-bolt adjustably arranged in said ears on the opposite side of the can, a clamping hook pivotally connected with said bolt, adapted to be clamped down over the edge of the lid when closed, and hand wheels  $c$  on said bolts, substantially as and for the purposes set forth.

3. A sheet metal can, having a pair of lugs or ears on the sides of its body, a bolt adjustably arranged in said ears on one side of the can, and having a pintle-bearing arm, lid or cover hinged to said pintle-bearing arm, a clamp-bolt adjustably arranged in said ears on the opposite side of the can, a clamping hook pivotally connected with said bolt, adapted to be clamped down over the edge of the lid when closed, hand wheels  $c$  on said bolts, and a locking bolt  $e^2$  on said lid, adapted to lock with said clamping hook, substantially as and for the purposes set forth.

4. A sheet metal can, having a pair of lugs or ears on the sides of its body, a bolt adjustably arranged in said ears on one side of the can, and having a pintle-bearing arm, a lid or cover hinged to said pintle-bearing arm, a clamp-bolt adjustably arranged in said ears on the opposite side of the can, a clamping hook pivotally connected with said bolt, adapted to be clamped down over the edge of the lid when closed, hand wheels  $c$  on said bolts, a locking bolt  $e^2$  movably arranged in guides on said lid, adapted to lock with said clamping hook, and a screw-stud  $e^5$  adapted to be screwed down into a depression in said lid, substantially as and for the purposes set forth.

5. A sheet metal can, having lugs or ears on the sides of its body, a bolt having a pintle-bearing arm arranged in said ears on one side of the can, a lid or cover hinged to said pintle-bearing arm, a clamp-bolt in said ears on the opposite side of the can, adapted to be clamped down over the edge of the lid when closed, an opening  $d^6$  in said lid and a plate or disk  $d^7$  and stud  $d^8$ , all arranged substantially as and for the purposes set forth.

6. A sheet metal can, having a pair of lugs or ears on the sides of its body, a bolt adjustably arranged in said ears on one side of the can, and having a pintle-bearing arm, a lid or cover hinged to said pintle-bearing arm, a clamp-bolt adjustably arranged in said ears on the opposite side of the can, a clamping hook pivotally connected with said bolt, adapted to be clamped down over the edge of



the lid when closed, an opening  $d^6$  in said lid, and a plate or disk  $d^7$  and stud  $d^8$ , all arranged substantially as and for the purposes set forth.

5 7. In a sheet metal can, the combination, with the body thereof, and a perforated lid, of a pump arranged in the body of the can and its discharge pipe extending through the lid, and a float substantially as and for the purposes set forth.

8. In a sheet metal can, the combination with the body thereof, of a pump arranged therein, comprising therein a cylinder  $f$ , a piston and tubular piston rod, valves, a discharge tube connected with said piston rod, and a float substantially as and for the purposes set forth.

9. In a sheet metal can, the combination with the body thereof, of a pump arranged therein, comprising therein a cylinder  $f$ , a piston and tubular piston rod, valves, and a discharge tube connected with said piston rod, teeth  $h$  on said rod, and a float loosely arranged on said rod, substantially as and for the purposes set forth.

10. In a sheet metal can, the combination with the body thereof, of a pump arranged therein comprising therein a cylinder  $f$ , a piston and tubular piston rod, valves, and a discharge tube connected with said piston rod, teeth  $h$  on said rod, and a float loosely arranged on said rod, a catch on said float adapted to engage with said teeth  $h$ , all arranged substantially as and for the purposes set forth.

11. In a sheet metal can, the combination, with the body thereof, and its lid and cover,

lugs or ears  $a'$  and  $a^2$  on said body, a bolt  $b$  loosely arranged in holes in said ears, a clamp arm pivotally connected with said bolt, adapted to engage with the lid, and a hand-wheel on a screw-thread on said bolt adapted to tighten said clamp arm against the edge of said lid, substantially as and for the purposes set forth.

12. In a sheet metal can, the combination, with the body thereof and its lid or cover, lugs or ears  $a'$  and  $a^2$  on said body, a bolt  $b$  loosely arranged in holes in said ears, a clamp arm pivotally connected with said bolt, adapted to engage with the lid, a hand wheel on a screw-thread on said bolt adapted to tighten said clamp-arm against the edge of said lid, and a locking bolt  $e$ , provided with a stud  $e^5$ , said bolt being adapted to be slipped over the clamping portion of said clamp-arm, substantially as and for the purposes set forth.

13. In a sheet metal can, the combination, with the body thereof and its lid or cover, lugs or ears  $a'$  and  $a^2$  on said body, a bolt  $b^3$  loosely arranged in holes in said ears, a pintle-bearing arm  $b^4$  on said bolt to which said lid or cover is hinged, and a hand wheel on a screw-thread on said bolt, said parts being arranged, substantially as and for the purposes set forth.

In testimony that I claim the invention set forth above I have hereunto set my hand this 23d day of June, 1894.

HERMAN BOKELMANN.

Witnesses:

FREDK. C. FRAENTZEL,  
WM. H. CAMFIELD, Jr.