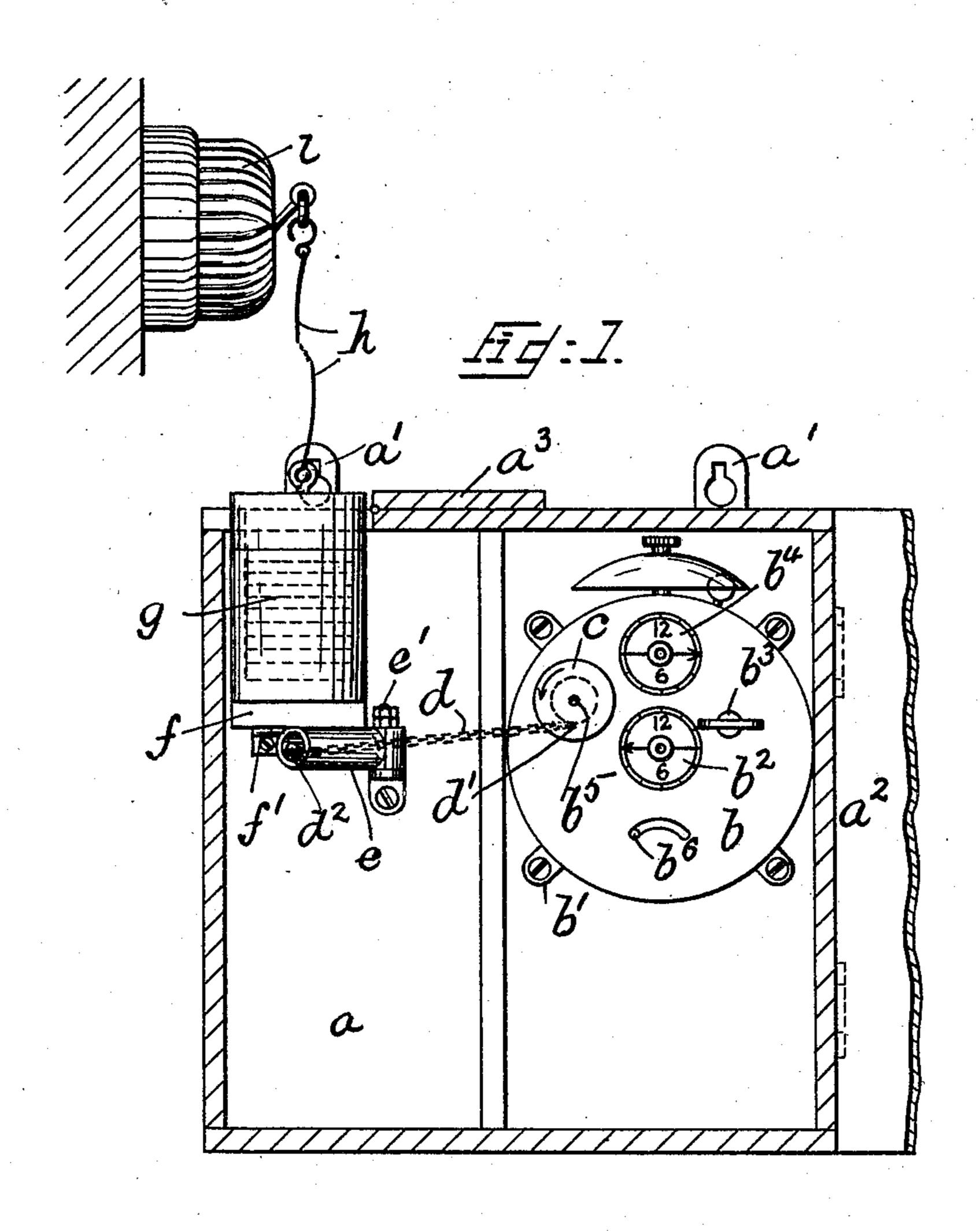
C. RUSS.

TIME CONTROLLING MECHANISM FOR GAS COCKS. APPLICATION FILED MAY 28, 1904.

NO MODEL.

2 SHEETS-SHEET 1.



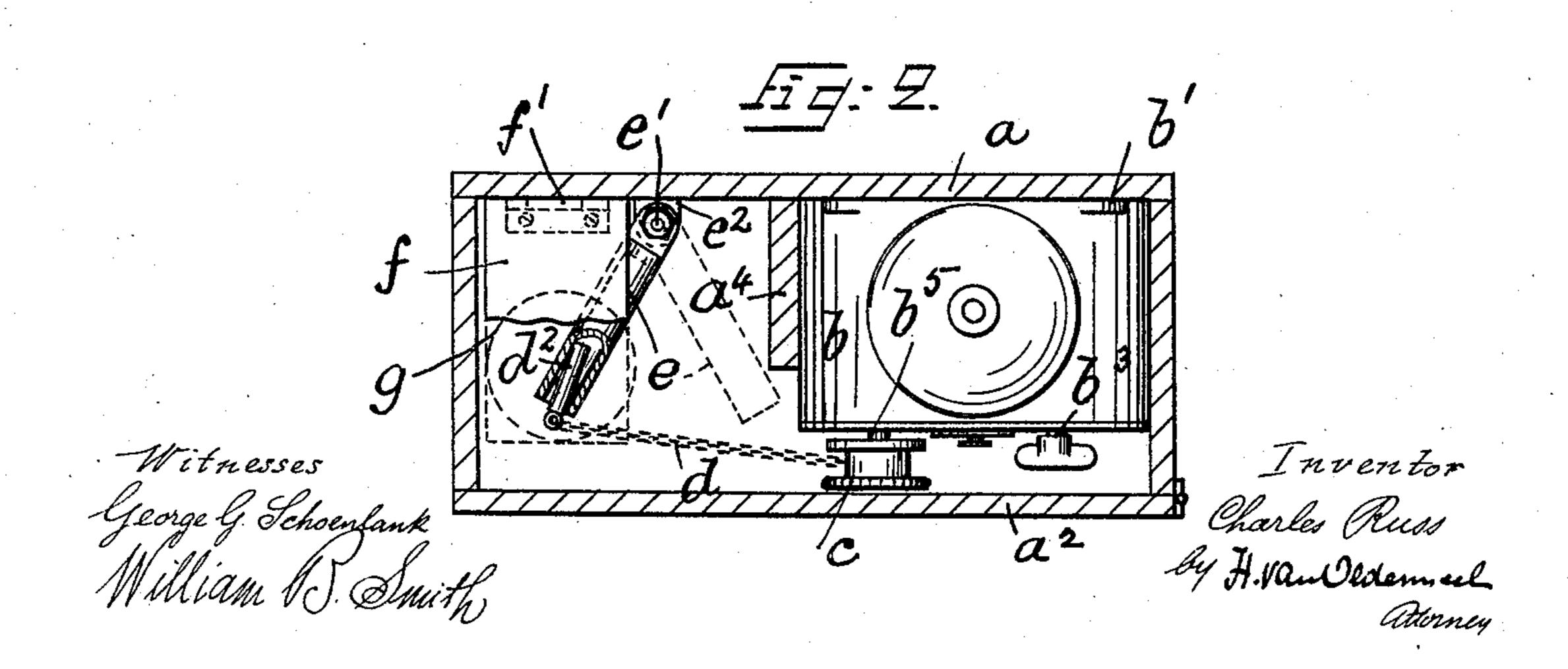


PHOTO-LITHIUGRAPHED BY SACKETT IS WILHELMS LITHO, & PTG. CO. NEW YORK.

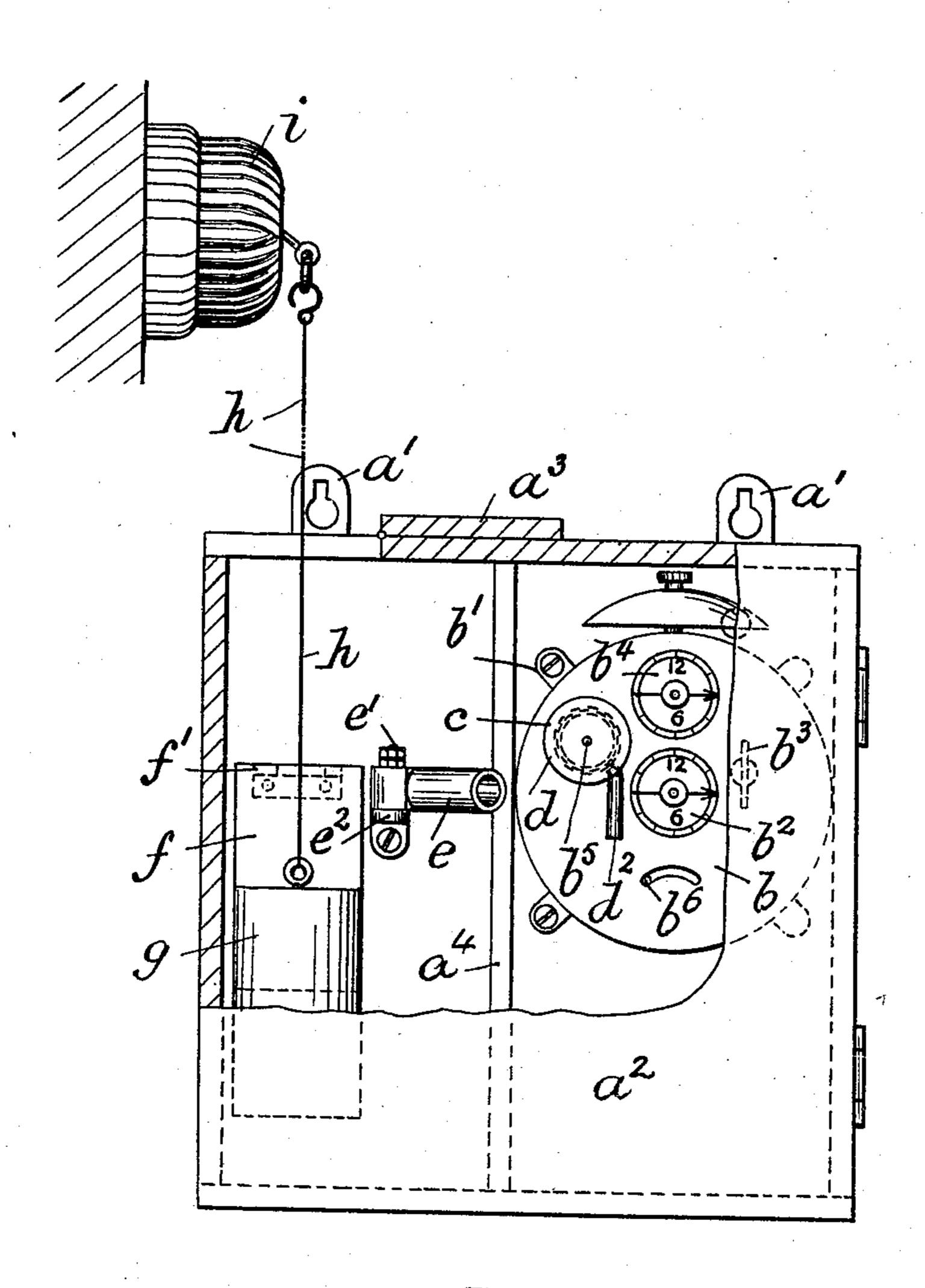
C. RUSS.

TIME CONTROLLING MECHANISM FOR GAS COCKS.

APPLICATION FILED MAY 28, 1904.

NO MODEL.

2 SHEETS-SHEET 2.



[z] - 3.

Witnesses George G. Schoenlank Milliam B. Smith

Inventor Charles Russ by Hraw Oldenneel, Attorney

United States Patent Office.

CHARLES RUSS, OF WEST EALING, ENGLAND.

TIME CONTROLLING MECHANISM FOR GAS-COCKS.

SPECIFICATION forming part of Letters Patent No. 773,987, dated November 1, 1904.

Application filed May 28, 1904. Serial No. 210,312. (No model.)

Lo all whom it may concern:

Be it known that I, Charles Russ, a subject of the King of Great Britain and Ireland, and a resident of West Ealing, England, have in-5 vented a certain new and useful Improvement in Apparatus for Automatically Operating Electric Switches, Gas-Cocks, or other Like Controlling Devices, (for which I have filed an application for British Patent No. 8,394, dated 10 April 12, 1904;) and I do hereby declare the following to be a full and exact description of the same.

This invention relates to improved apparatus for automatically operating electric 15 switches, gas-cocks, or other like controlling devices at a predetermined time, so as to enable, for example, the lights in a building to be put out when desired without burning to waste or requiring the attention of any one to 20 effect the same, and has for its object to provide a simple, cheap, and efficient apparatus for the purpose.

To this end the invention consists in operating the switch, gas-cock, or other controller 25 by means of a weight which when the apparatus is set for actuation rests on a support or table held up by an arm or catch controlled by a clockwork mechanism and which when such mechanism releases the table falls suf-3° ficiently to operate the switch, cock, or other

controller.

On the accompanying drawings, Figure 1 represents a sectional elevation of an apparatus embodying the present invention, show-35 ing the parts set for operating an electric switch. Fig. 2 represents a sectional plan of Fig. 1, showing part of the weight-supporting table broken away. Fig. 3 represents a sectional elevation showing the position of 40 the parts when the switch has been operated.

a represents a casing for containing the parts of the apparatus, which is provided with eyes a' for hanging it against a wall

and with hinged doors $a^2 a^3$.

b represents a clockwork mechanism supported by brackets b' or otherwise and provided with a time-dial b^2 , a time-winding arbor b^3 , an alarm-setting dial b^4 , an alarmwinding arbor b^5 , which rotates in the direc-

tion of the arrow when the alarm operates, 50

and a regulator b^6 .

On the alarm-arbor b^5 is keyed or mounted a drum or pulley c, which serves for a winding-handle and which has a chain, cord, or the like d connected to it at d'. The chain d is 55 provided with a short peg d^2 , which is adapted to loosely fit into the hollow end of an arm or catch e and to detachably connect the chain thereto. The arm is pivotally mounted on a stud e', rising from a bracket e^2 , at- 60 tached to the casing side, so as to have facility of swinging in a horizontal plane between the box side and an upright a^4 .

f is a table hinged to the casing side at f'and adapted to be maintained in a horizontal 65 position by the arm e when the latter is swung underneath it, Figs. 1 and 2, and to fall and assume a vertical position when the arm is swung from underneath it, Fig. 3. The table f when in its horizontal position serves to 70 support a weight g, which may be made heavier or lighter to suit various switches and which is connected by a cord or the like h to the handle of the electric switch i.

The operation of the improved device is as 75 follows: When it is desired to leave the apparatus to turn out the lights at a predetermined time, the clockwork mechanism is started and the alarm-dial is set so as to release the alarm and cause the arbor b^5 to rotate at 80 such time. The peg of the chain d is inserted into the hollow end of the arm e, and the latter is swung underneath the table, so as to support it and the weight on it. At the given time the alarm is automatically released, and 85 the drum c winds the chain d, so as to swing the arm from underneath the table, which then falls and allows the weight to do likewise and operate the switch as desired, while the chain will disconnect from the arm by the 90 peg d^2 drawing out of its hollow end upon the arm stopping against the upright a^4 and will allow the alarm-arbor to continue to operate and not interfere with the operation of the alarm.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In apparatus for automatically operat-

773,987

ing electric switches gas-cocks or other like controllers at a predetermined time, the combination, with a clockwork mechanism having a rotatable arbor adapted to be automat-5 ically operated at a predetermined time, of a drum fast on said arbor, a table adapted to swing in a vertical plane, a catch adapted to swing in a horizontal plane across the path of said table to support or release same, means 10 connecting said drum and catch and adapted to operate said catch and to automatically detach therefrom after said catch has been operated, and a weight supportable by said table and connectible to the operating part of 15 the gas or electric controller and adapted to operate same when the catch is operated and the table is released and falls, as set forth.

2. In apparatus for automatically operating electric switches gas-cocks or other like 20 controllers at a predetermined time, the combination, with a clockwork mechanism having a rotatable arbor adapted to be automatically operated at a predetermined time, of a drum fast on said arbor, a table adapted to 25 swing in a vertical plane, a catch having a hollow end adapted to swing in a horizontal plane across the path of said table to support or release same, means attached at one end to said drum and adapted to be wound thereon 30 when it operates, a short peg attached to the other end of said means and adapted to loosely

.

.

.

.

•

fit into the hollow end of said catch and connect said means thereto for operating said catch and to automatically disconnect the same after said catch has been operated, and a 35 weight supportable by said table and connectible to the operating part of the gas or electric controller and adapted to operate same when the catch is operated and the table is released and falls, as set forth.

3. In apparatus for automatically operating electric switches gas-cocks or other like controllers at a predetermined time, in combination, a table adapted to swing in a vertical plane, a catch adapted to swing in a hori- 45 zontal plane across the path of said table to support or release same, means adapted to connect said catch to a clockwork mechanism for operating same and to automatically disconnect same after said catch has been oper- 5° ated, and a weight supportable by said table and connectible to the operating part of the gas or electric controller and adapted to operate same when the catch is operated and the table is released and falls, as set forth.

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

CHARLES RUSS.

Witnesses:

.

ALFRED CHARLES DAY, ARTHUR WALTER DAY.