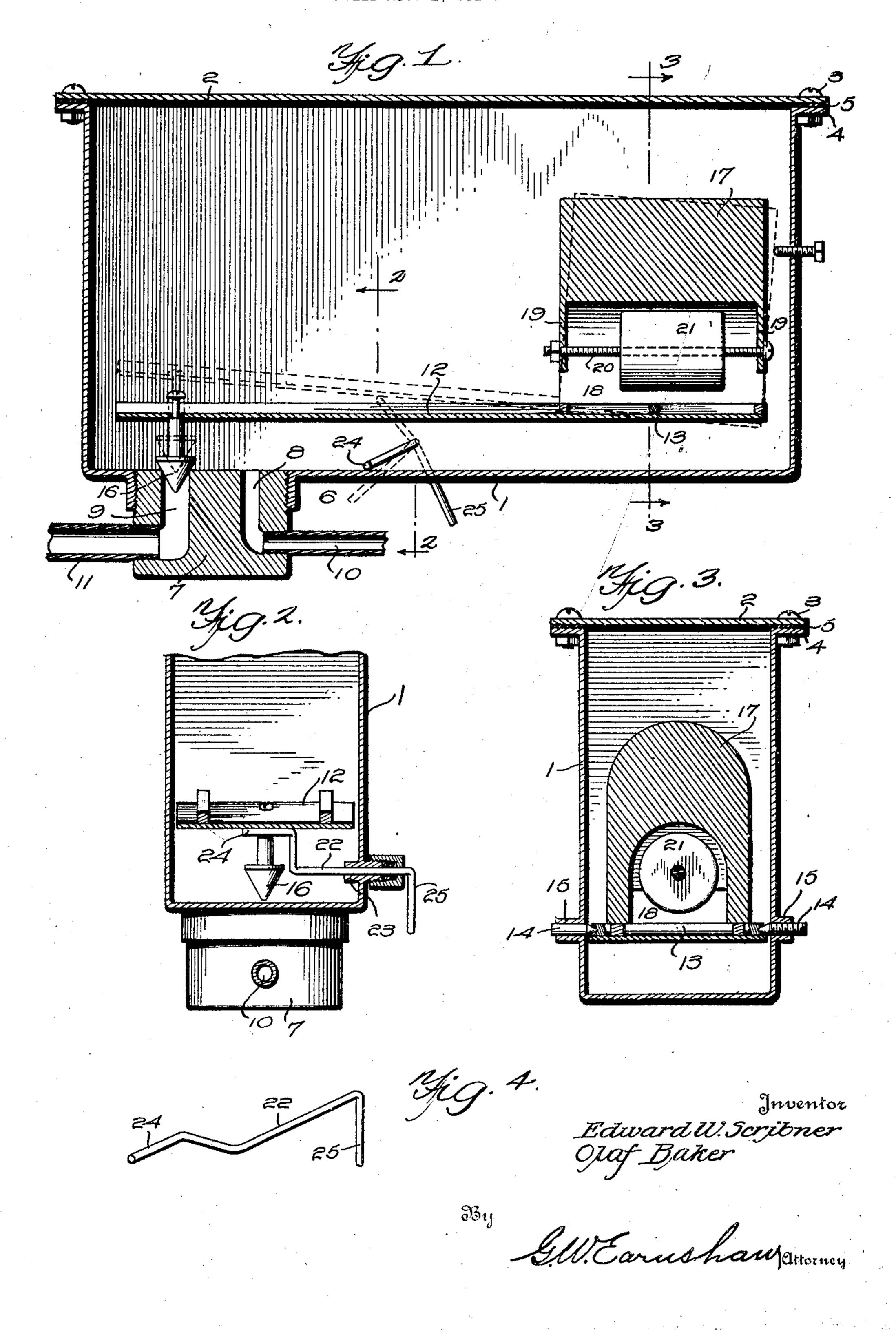
E. W. SCRIBNER ET AL. VALVE. FILED Nov. 2, 1921.



UNITED STATES PATENT OFFICE.

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VALVE.

Application filed November 2, 1921. Serial No. 512,360.

To all whom it may concern:

lowing is a specification.

trol valves, and more particularly to valves maintained in open position by the pressure of the gas when it exceeds a predetermined

mined point.

20 pivoted lever is employed, the lever carry- side and normally retain it in the dotted 25 normal conditions, and a flow of gas of a adapted to receive the points of bearing pins sition. Adjacent the pivot, a block is se- One of the pins is threaded, as shown, to cured to the lever and this block is pro- permit adjustment. 30 vided with a threaded shaft adapted to A valve 16 is carried by the forward end may be varied.

It is an object of the present invention to provide a valve of this type which may

ent pressures.

40 wherein adjustment is obtained through a rod, the weight being provided with an inregulating weight mounted adjacent the pivot.

In the accompanying drawings, we have

45 this showing:

Figure 1 is a vertical longitudinal sectional view,

Figure 2 is a transverse vertical sectional

view on line 2—2 of Figure 1, Figure 3 is a similar view on line 3—3 of

Figure 1, and, Figure 4 is a detail view of a crank mem-

ber.

Referring to the drawings, the reference 55 numeral 1 designates a box or casing in which the valve is mounted. This casing is

provided with a removable cover 2, to per-Be it known that we, Edward W. Scrib- mit access to the interior. The cover is NER and OLAF BAKER, citizens of the United maintained in position by means of bolts 3, States, residing at Douthat, in the county passing through it and through openings in 60 5 of Ottawa, and Miami, in the county of a flange 4, formed on the casing. Suitable Ottawa, and State of Oklahoma, respec- packing 5 may be provided to prevent leaktively, have invented certain new and useful age. The bottom of the casing is provided Improvements in Valves, of which the fol- with an opening surrounded by an internally threaded flange 6. This flange is adapted to 65 This invention relates to automatic con-receive a plug 7 having an inlet port 8 and an outlet port 9. Inlet and outlet pipes 10 adapted to be arranged in gas lines and and 11 are connected to the ports 8 and 9 respectively.

A pivoted plate or lever 12 is mounted in 70 amount, but adapted to automatically close the casing above the ports 8 and 9. As when the pressure falls below a predeter- shown, this member is relatively broad, extending to points adjacent each side of the In the present invention, we have provided casing, so that the gas passing through the an automatic valve of this type wherein a port 8 will come in contact with its under 75 ing a valve which is adapted to close the line position shown in Figure 1 of the drawgas line when the lever is in lowered posi- ings. The lever is provided with a shaft tion. The pivot is so arranged that the 13 adjacent its other end, having conical valve will assume a closed position under recesses in each end. These recesses are 80 predetermined amount is necessary to main- 14 which are mounted in suitable enlargetain the valve end of the lever in raised po-ments 15 in the side walls of the casing.

carry a weight, whereby the weight may of the lever and is adapted to close the outbe adjusted longitudinally and the propor- let port 9 when the lever is in lowered positional weights of the ends of the lever tion. A block 17 is secured to the rear end of the lever and extends in each direction 90 beyond the pivot. This block is provided with a recess or cut-out portion 18. The ends be adjusted to close automatically at differ- of the recess are partially closed by walls 19 and a threaded rod or shaft 20 is mounted It is a further object to provide a valve therein. A weight 21 is arranged on this 95 ternally threaded opening for the reception of the rod.

When the flow of gas has been cut off, and shown one embodiment of the invention. In the valve is to be reopened, a shaft 22, 100 mounted in a bearing 23 formed in the wall of the casing, is turned to cause crank portion 24, formed on the end thereof, to engage the under side of the lever. The outer end of shaft 22 is provided with a handle 25. 105 The operation of the device is as follows:

The weight of the portion of the lever arranged in front of the pivot is greater than the weight of the portion arranged in the rear so that the lever will normally maintain 110 the position shown in full lines in Figure 1 of the drawings when there is no flow of

gas. The valve 16 is then in closed position. necessary to retain said plate in raised posi-When the device is to be used, the shaft 22 is tion. turned to raise the lever to the dotted line position, and the flow of gas from the pipe 5 10 maintains the lever in raised position. When the pressure in the gas line falls below a predetermined amount, the plate lowers and the valve assumes a closed position.

The weight 21 may be adjusted longitudi-10 nally of the shaft 20 to vary the proportion of the weight on each side of the pivot

valve will automatically close.

It is to be understood that the form of our tudinally of said block. 15 invention herewith shown and described is 3. An automatic gas valve comprising a 50 20 of the invention or the scope of the sub-tion by the flow of gas, a valve carried by 55 joined claims.

We claim:

provided with a pair of passages forming an outer ends of said passages, a plate pivotally shaft. mounted in said casing and disposed over. In testimony whereof we affix our signa-30 said passages, whereby the flow of gas will normally retain said plate in a raised position, a valve carried by said plate and adapted to close said inlet when in lowered position, and a weight adjustably mounted on 35 said plate to permit regulation of the force

2. An automatic gas valve comprising a casing having an inlet and an outlet, a lever pivotally mounted therein, said lever being 40 adapted to assume a lowered position, but being normally maintained in raised position by the flow of gas, a valve carried by said lever and adapted to close said outlet when the lever is lowered, a block secured 45 to said lever adjacent said pivot, said block and thus vary the pressure at which the being provided with a recess, and a weight mounted in said recess and adjustable longi-

to be taken as a preferred example of the casing having an inlet and an outlet, a lever same, and that various changes in the shape, pivotally mounted therein, said lever being size, and arrangement of parts may be re-adapted to assume a lowered position, but sorted to without departing from the spirit being normally maintained in raised posisaid lever and adapted to close said outlet when the lever is lowered, a block secured 1. An automatic gas valve comprising a to said lever adjacent said pivot, said block casing having an opening therein, a plug being provided with a recess, a threaded 25 arranged in said opening, said plug being shaft mounted in said recess, and a weight 60 mounted on said shaft, said weight being inlet and an outlet, pipes connected to the adapted to be adjusted by rotation of said

tures in presence of two witnesses.

EDWARD W. SCRIBNER. OLAF BAKER.

Witnesses:

NOEL W. WYATT, ROY DEPRE.