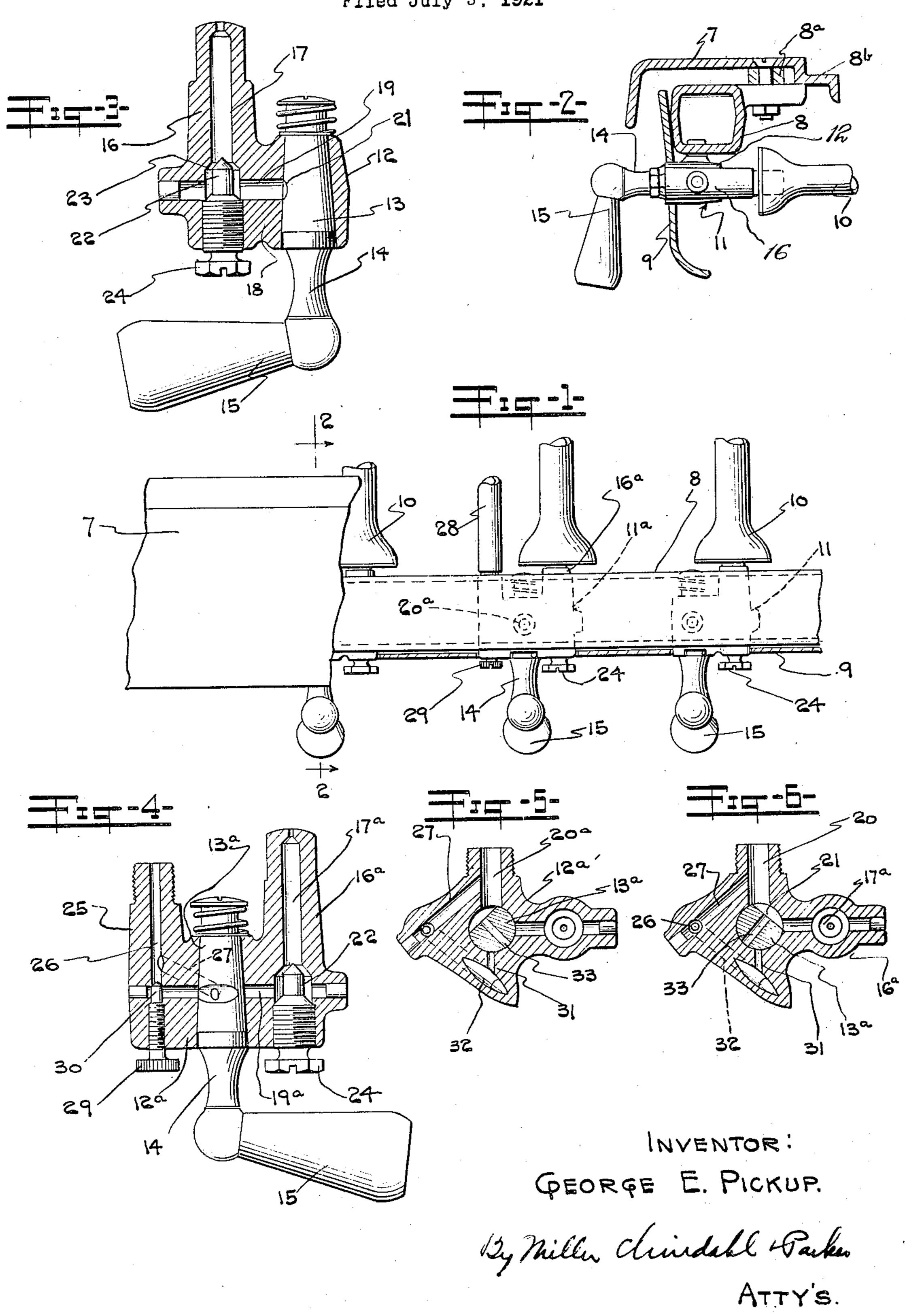
G. E. PICKUP

GAS COCK

Filed July 5, 1921



STATES PATENT OFFICE.

CHORCE H. PICKUP, OF NEWARK, OHIO, ASSIGNOR TO THE WEERLE COMPANY, OF NEWARK, OHIO, A CORPORATION OF OHIO.

GAS COCK.

Application filed July 5, 1821. Serial No. 482,387.

To all whom it may concern:

Newark, in the county of Licking and State 5 of Ohio, have invented new and useful Improvements in Gas Cocks, of which the fol-

lowing is a specification.

The invention relates to valve means for controlling the flow of gas from a manifold 10 in a gas range to a burner, and has particular reference to a device of this character which is adapted for use in connection with a concealed manifold such as is illustrated in my copending application Serial No. 482,388, 15 filed July 5, 1921.

One object of the invention is to provide a gas cock adapted to permit of the interposition of the valve means between the manifold and the burner while enabling the op-20 cration thereof from a point forwardly of

the manifold.

A further object of the invention is to provide a device of the character indicated which is capable of supplying, under the 25 control of the valve, an increased supply of gas to the lighting device.

operative point of view.

25 top plan view of a portion of the stove top arate from that provided by the valve 13. 90 operative positions.

Referring to Fig. 2, 7 designates the forward member of the stove top, and 8 indi-50 cates the manifold arranged below the top and secured thereto in any suitable way as by means of bolts 8° entered through lugs 8°. 9 is an upright plate member coacting with the forward frame member 7 to conceal the manifold which is connected with the rear

ends 10 of the burners by means of cocks 11 Be it known that I, George E. Piokup, a and 11°. Said cocks are located below the citizen of the United States, residing at manifold and have operating means extending through the plate member 9 forwardly into a readily accessible position.

The valve means 11 comprises a body providing a tubular casing 12 (Fig. 3) having an elongated chamber adapted to receive a conical valve member 13. The latter has a forwardly projecting stem 14, which is pro- 66 vided with an operating handle 15 of any preferred form. Parallel with said tubular casing 12 is a tubular stem 16 providing a passageway 17, and said stem is connected with the casing by means of a transverse por- 70 tion 18 having a fork 19 therein establishing communication between the valve chamber and the passageway 17. The casing 12 is connected with the manifold by means of a vertical port 20 in an upstanding tubular 75 stem portion of the body and the valve member is ported as at 21 so as to control the flow of gas from the manifold to the burner by

way of the port 19 and the passageway 17. For the purpose of controlling the height so of the flame at the burner, I provide a needle A further object of the invention is to valve 22 having a seat 23 in the forward end provide a gas cock of the kind described of the passageway 17. Said valve is screwwhich is of a very practical character from threaded into the forward end of the stem 30 a structural standpoint as well as from an 16 so as to be adjustable therein, the forward 35 end of the screw being provided with a In the accompanying drawings, wherein head 24. It will be seen that the needle I have illustrated a preferred embodiment of valve 22 constitutes an adjusting means for my invention, Figure 1 is a fragmentary controlling the flow of gas, which is sep-

or frame and the manifold having gas cocks In Figs. 4 to 6 I have shown valve means embodying the invention. Fig. 2 is a verti- as embodying an additional outlet for the cal sectional view taken substantially in the gas which is adapted to supply gas to the plane of line 2-2 of Fig. 1. Fig. 3 is a hori-lighting device. Thus, I have in this in-30 zontal sectional view on an enlarged scale stance provided a central portion 120 pro- 95 through the cock shown in Fig. 2. Fig. 4 viding a chamber for the valve member 13. is a similar view but showing the cock for Upon one side of this portion 12a is a tubusupplying gas to the simmering burner and lar stem 162 which provides a passageway to the lighter. Figs. 5 and 6 are vertical sec- 17°. This passageway preferably discharges 45 tional views through the cock shown in Fig. into the forward end of the simmering 100 4 and showing the valve member in different burner and hence is made of relatively small size, and the flow of gas from the valve chamber to the passageway 17° is effected by a port 19^a, and is controlled by a needle valve 22 as in the case of the valve shown in Fig. 3. 105

On the opposite side of the valve chamber is a tubular stem 25 providing a passageway 26 which communicates directly by way of an inclined port 27 (Fig. 5) with the vertical port 20° which communicates at its up- 130.

served that through this port 27 gas is constantly supplied to the passageway 26 through the tubular stem 25, said stem being 5 connected by means of a pipe 28 with a lighting device (not shown). An additional adjusting screw 29 for controlling the volume of gas supplied to the lighting device is provided. This adjusting screw has 10 at its inner end a needle valve 30 adapted to seat in the forward end of the passageway

26 as shown in Fig. 4.

Preferably I provide means under the control of the valve 13a for increasing the flow 15 of gas to the pilot light. This means may comprise a port 31 (Figs. 5 and 6) leading from the lower side of the valve chamber and connected by means of an upwardly and rearwardly inclined passage 32 with the pas-20 sageway 26, rearwardly of its forward end. The valve member 13° has in this instance, in addition to the port 21, a diametrical port 33 which is adapted, in an intermediate position of the valve member, to establish a 25 connection directly between the tubular stem 20 and the port 31. By this means it is possible to control the flow of gas to the pilot light in such a way that, when it is desired to effect the lighting of the burners, the pilot 30 light will flare up so as to insure that the lighting of the burners into which the gas is turned, will take place.

It will be seen that I have provided a gas cock which is especially well adapted for use 35 in connection with a concealed manifold, and which is otherwise of a very advantageous and practical character, and while I have illustrated and described the invention in connection with a single embodiment 40 thereof, it is to be understood that various changes in form, construction and arrangement may be made without departing from the spirit and scope of the invention as ex-

pressed in the appended claims.

45 I claim as my invention: 1. In combination with a manifold, a gas cock comprising a body having a valve chamber therein, means located at the underside of said manifold establishing communi-50 cation between the manifold and said chamber, said body having an outlet for the gas located laterally to one side thereof and also communicating with said valve chamber, and valve means for controlling the 55 flow of gas from the inlet to the outlet through said chamber, said inlet and outlet ports being arranged at right angles with respect to each other and said valve means comprising a member arranged at right an-60 gles with respect to said ports.

2. In combination with a manifold, a gas cock comprising, in combination, a body having a valve chamber and an inlet and an outlet port opening into said chamber at substantially right angles with respect to

per end with the manifold. It will be ob- each other, said inlet port being vertically disposed and the outlet port horizontally disposed relative to the manifold, a valve member operable in said chamber upon an axis at substantially right angles with re- 70 spect to said ports, and a valve operating stem extending forwardly from the body.

3. In combination with a manifold and a gas cock mounted in superposed relation, said cock comprising a body having a pas- 75 sage adapted to discharge into a burner, a valve chamber parallel with and located laterally to one side of said passage, a port connecting said chamber with said passage, a port connecting the underside of said 80 manifold with said chamber, and a valve member operable in said chamber and adapted to control the flow of gas from the mani-

fold to said discharge passage.

4. In combination with a manifold and a 85 gas cock mounted in superposed relation, said cock comprising a body having a passage adapted to discharge into a burner, a valve chamber parallel with and located laterally to one side of said passage, a port 90 connecting said chamber with said passage, a port connecting the underside of said manifold with said chamber, a valve member operable in said chamber and adapted to control the flow of gas from the manifold to 95 said discharge passage, and supplemental means for adjustably controlling the flow of gas through said passage.

5. A gas cock comprising, in combination, a body having two parallel stems each pro- 100 viding a longitudinal discharge passage, said body having a valve chamber between said stems and parallel therewith, an inlet port communicating with said chamber and with one of said passages, and a valve mem- 105 ber for controlling the flow of gas from said

port to the other one of said passages. 6. A gas cock comprising, in combination, a body having two parallel stems each providing a longitudinal discharge passage, said 110 body having a valve chamber between said stems and parallel therewith, an inlet port communicating with said chamber and with one of said passages, a valve member for controlling the flow of gas from said port to 115 the other one of said pussages, and means controlled by said valve member providing a second connection between said port and the first one of said passages.

7. A gas cock comprising, in combination, 120 a horizontal discharge passage, an upright inlet port, a horizontal valve chamber into which said inlet port opens, means providing two separate connections between said passage and said chamber, and a valve mem- 125 ber in said chamber for controlling the flow of gas through one of said connections.

8. A gas cock comprising two parallel passages and an intermediate parallel chamber, an inlet port leading substantially at 120

right angles into said chamber, a valve memby said valve member for establishing communication with either of said passages.

5 9. A gas cock comprising, in combination, a body having a longitudinal passage constituting an outlet, a longitudinal chamber parallel with said passage and communicating therewith, a port at right angles to said

chamber constituting an inlet, a valve mem- 10 ber in said chamber, and means controlled ber in said chamber adapted to control the flow of gas from said inlet to said outlet, and a stem coaxial with said valve member and having an operating handle at its forward end.

In testimony whereof, I have hereunto set my hand.

GEORGE E. PICKUP.