Oct. 11, 1960 STEN SUNE AXELSSON 2,955,588

GAS STOVES

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Fig. 1

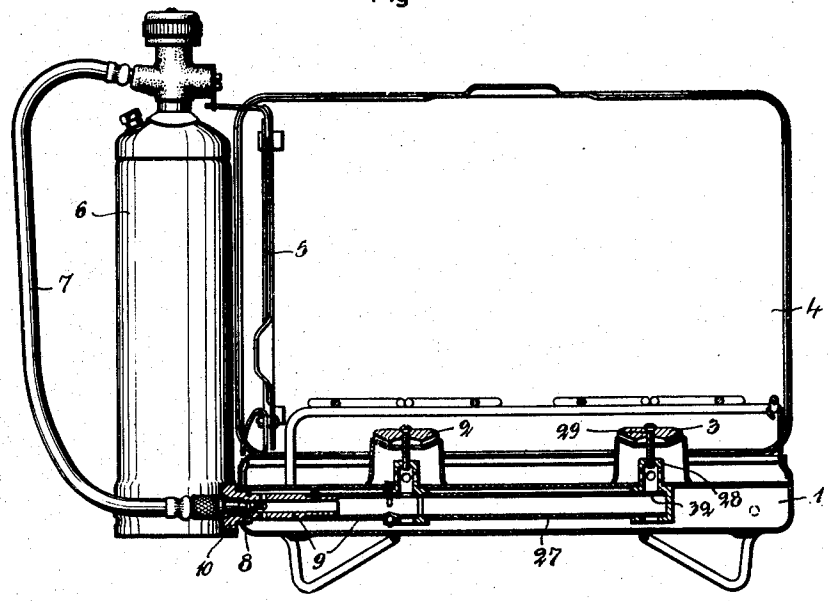
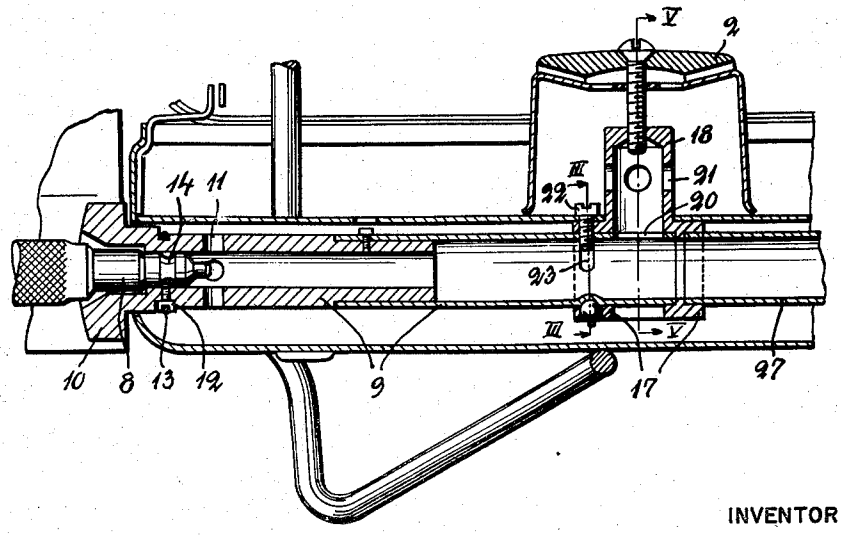


Fig. 2



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Fig. 3

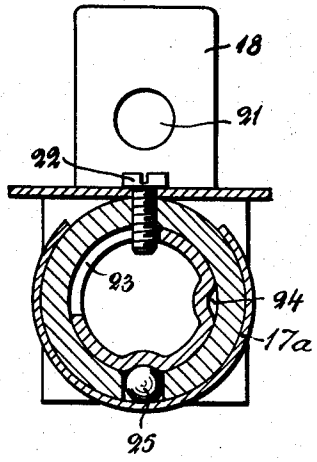


Fig. 4

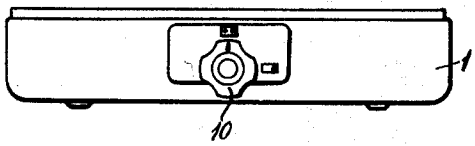


Fig. 5

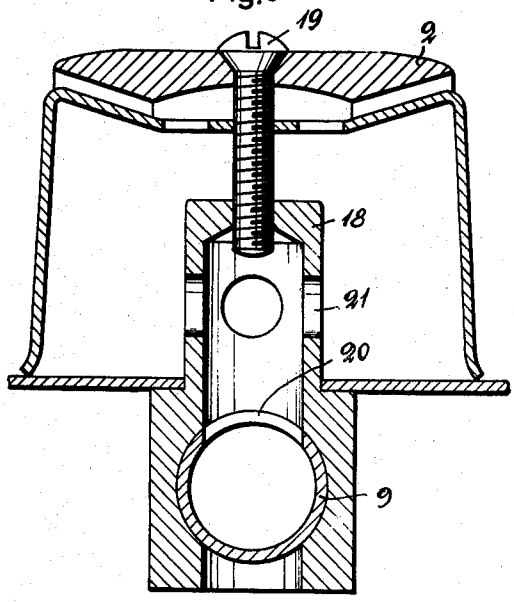
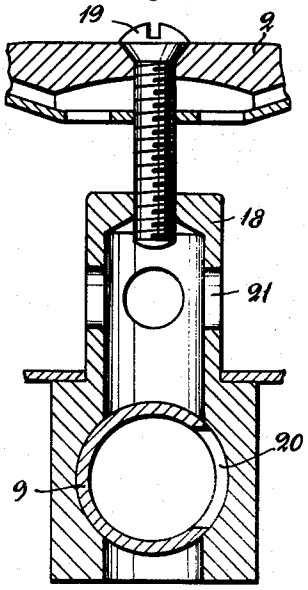


Fig. 6



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2,955,588

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Claims priority, application Sweden July 5, 1957

1 Claim. (Cl. 126—38)

The present invention relates to an improvement in gas-burning cooking appliances and of the type having two burners to which the gas is conducted from the source of gas through a longitudinal tube having gas outlet slots at the burners. The object of this invention is to provide a control or shut-off of the gas supply to one of the two burners independently of the gas supply to the other burner. In accordance with this invention this object is achieved thereby that the tube is divided into two itnercommunicating parts of which one is rotatably mounted and associated with a finger grip accessible at the outside of the appliance, so that the gas outlet slot of that tube part may be adjusted to different positions to control the size of the flame of the associated burner.

The invention will be explained in more detail below with reference to the accompanying drawings, which show an embodiment serving to illustrate but not to limit the invention.

Figure 1 shows an elevation of the cooking appliance in opened condition with a gas container suspended on a wind-shield.

Figure 2 shows a portion of Figure 1 on an enlarged scale.

Figure 3 is an enlarged cross-section taken along line III—III in Figure 2.

Figure 4 is an elevation of the box.

Figures 5 and 6 show on the same scale as Figure 3 a cross-section taken along line V—V in Figure 2 with the rotatable gas supply tube shown in two different angular positions.

Referring to the drawings, the numeral 1 designates a box accommodating two burners 2, 3 disposed one beside the other. The numeral 4 designates a lid and 5 is a wind-shield hinged to one of the shorter sides of the lid 4. In the swung-out position, as shown in Figure 1, the wind-shield carries a container 6 filled with compressed gas.

A flexible tube or conduit 7 connected to the container 6 is provided at its free end with a gas nozzle 8 adapted to be inserted into a tube part 9 which is rotatably mounted in one of the shorter sides of the box 1. As best seen in Figure 2, the tube portion 9 outside the box 1 has a finger grip or knob 10 by means of which the tube part 9 can be turned about the nozzle 8. To ensure that said nozzle 8 will be correctly positioned relative to air inlet ports 11 in the tube part 9 and will also be fixed in such position, the tube portion 9 has a pin 12 which is secured to the tube portion by means of a resilient wire 13 surrounding the tube portion so that the free end of the pin can snap into an annular groove 14 in the gas nozzle 8.

The tube part 9 is composed of a thick-walled section provided with the finger-grip 10 and a thin-walled tube section which is rotatably mounted in the flanges 17 of the support 18 of the nearest burner 2 to which the support 18 is secured by means of a screw 19. In alignment with the burner 2 the tube part 9 rotatably mounted in the flanges has a gas outlet slot 20. In the portion thereof projecting into the burner 2, the support 18 is provided with gas outlet ports 21 opening to the burner.

To limit the rotation of the tube 9 and at the same time to maintain the tube 9 in either of its two end positions corresponding to completely open and completely closed gas supply to burner 2 one flange 17 of the support 18 has a screw 22, the free end of which projects into a circumferential slot 23 extending across approximately one quarter of the circumference of the tube 9, and the tube 9 has two depressions 24 corresponding to the two end positions of the tube and adapted to cooperate with a ball 25 mounted in one flange 17 and maintained in position by a resilient sleeve 17a enclosing the flange 17.

In the right-hand flange 17 of the support 18, there is non-rotatably secured one end of a second tube 27, the opposite closed end of which is non-rotatably secured in a second support 28 in its turn secured to the burner 3 by means of a screw 29.

The non-rotatable tube 27 is provided with a gas outlet slot 32 in alignment with the burner 3.

It will be apparent that by turning the finger grip 10 the gas outlet slot 20 can be caused to take the two positions illustrated in Figures 5 and 6 and corresponding to fully supply of gas and to completely closed gas supply, respectively, to the burner 2 as well as any intermediate positions to reduce the gas supply to the burner 2 to any desired extent independently of the gas supply to the burner 3.

I claim:

In a gas-burning cooking appliance, the combination comprising a pair of burner asemblies each including a burner, and a hollow burner support having inlet and outlet openings for passage of gas therethrough, means for conducting gas from a source thereof to said inlet openings including first tubular means extending between and having opposite end portions non-rotatably mounted respectively in said pair of supports, second tubular means having air inlet openings formed therein adjacent one end portion thereof and having the other end portion rotatably mounted in one of said burner supports in communication with said first tubular means and extending from said one burner support in longitudinal continuation of said first tubular means, and a conduit section adapted to extend from said gas source connected into the end of said second tubular means remote from said burners for discharging into said second tubular means in the region of the air inlet openings aforesaid, said second tubular means being provided with a gas outlet opening registering with the inlet opening of the associated burner support, and said first tubular means being provided with a gas outlet opening registering with the inlet opening of the associated burner support, and a finger grip at the end of said second tubular means into which said gas source conduit connects and accessible to the operator, said finger grip being operable for turning said second tubular means relative to said first tubular means to progressively vary the effective size of the gas inlet opening of the associated burner support.

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