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(54) **Securing device for gas hob tap**

(57) A securing device (1) for a tap (26) of a gas hob (21), intended to fix said tap (26) both to a pipe (20) feeding gas to the hob (21) and to a usual portion (22) of said hob in which a through hole (24) is provided for receiving a shaft (25) of said tap (26) which cooperates with a corresponding knob, said device comprising a profiled one-piece body (2) having a first portion (3) presenting at a free end a seat (12) for receiving a projecting element (31) of said tap (26) such as to define the position for its securing to said pipe, said tap (26) being then fixed to

this latter by a mechanical fixing member (33) cooperating with a corresponding seat (6) provided in a second portion (4) of said profiled body, said seat of said second portion (4) and said end (10) of said first portion (3) of the profiled body (2) being disposed on opposite sides of the gas feed pipe (20), said body (2) presenting at the free end (15) of said second portion (4) at least one seat (16) for a corresponding mechanical fixing member (37) for fixing the body (2) to that portion (22) of said hob (21) provided with the through hole (24).

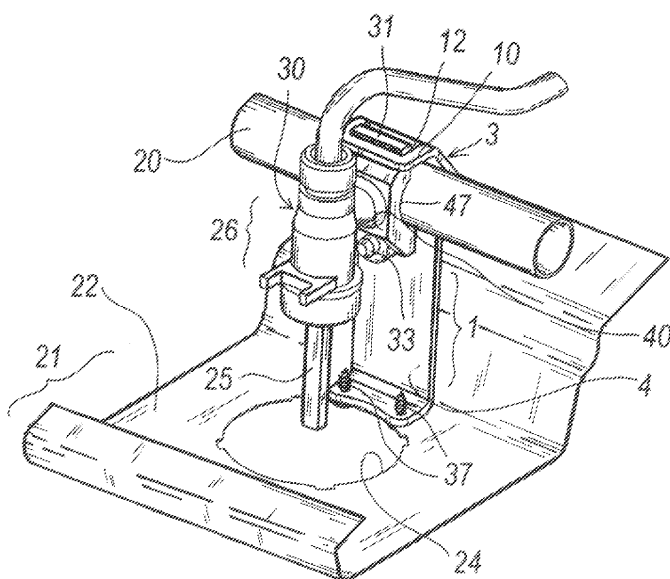


FIG. 3

Description

[0001] The present invention relates to a securing device for a gas hob or gas stove tap in accordance with the introduction to the main claim.

[0002] A gas hob or gas stove is known to comprise a region or portion in the form of a control panel on which at least one knob is present for regulating the gas flow to a corresponding burner positioned on said hob. The knob cooperates with a gas tap controlled by a profiled shaft which projects through a hole provided in said portion of the hob, and on which the knob is mounted. The tap body is fitted into a hole provided in a rigid pipe (known as the side pipe) positioned below said portion and connected in known manner to a usual hob gas feed pipe connected to the gas supply. A conduit extends from the tap body to terminate at the burner.

[0003] A tap formed in this manner must be correctly positioned and secured to the hole provided in the rigid pipe, and its profiled shaft must be correctly aligned with the through hole in the said hob portion.

[0004] This positioning, securing and alignment are currently achieved by using a plurality of members provided for this purpose, thus making the hob assembly lengthy and relatively difficult. This affects the hob installation cost.

[0005] An object of the present invention is to provide a device which enables the gas tap of a corresponding burner to be rapidly and easily mounted on a hob.

[0006] A particular object of the invention is to provide a device of the stated type which is easy to manipulate during tap installation on the hob.

[0007] These and further objects which will be apparent to the expert of the art are attained by a securing device for a gas hob tap in accordance with the accompanying claims.

[0008] The present invention will be more apparent from the accompanying drawing, which is provided by way of non-limiting example and in which:

Figure 1 is a perspective view of a device according to the invention;

Figure 2 is a perspective view from above showing a part of the gas hob using the device of the invention; and

Figure 3 is a perspective view from below showing the interior of the hob of Figure 2.

[0009] With reference to said figures, a device according to the invention is indicated overall by 1 and comprises a profiled one-piece body 2 presenting a first and a second portion 3, 4 respectively. Between the first portion 3 and second portion 4 an intermediate part 5 is present, inclined to said portions and projecting from the body 2 outwards of a flat face 8 of the second portion 4, which lies opposite a face 9. An elongated hole or slot 6 is provided in said second portion 4, in proximity to the intermediate part 5. The face 8 is indicated hereinafter as the

outer face and the face 9 the inner face, in relation to the use of the device 1.

[0010] The first portion 3 is inclined to the intermediate part but in the opposite direction to this latter, and has an end 10 presenting an elongated hole 12. The hole 12 is positioned with its longitudinal axis K perpendicular to the central longitudinal axis W of the one-piece body 2, while the elongated hole or slot 6 has its longitudinal axis F parallel to said axis W. The second portion 4 of the device 1 presents a free end 15 bent at 90° and provided with through holes 16. This end 15 and the end 10 of the first portion 3 are bent inwards from the body 2, with reference to the use of this latter. In this respect, the body 2 is intended to be positioned about a rigid or side pipe 20 for distributing the gas to the burners of the gas hob 21, which presents a portion in the form of a control panel 22 on which at least one knob (not shown) is positioned for controlling and regulating the gas feed to a corresponding hob burner. The knob is located on a shaft 25 of a gas regulating tap 26 present at a through hole 24 provided in the portion 22, said tap 26 cooperating in known manner with the rigid pipe 20. The tap 26 is intended to be secured to the pipe and positioned with its shaft through the hole 24 by the device 1 of the invention.

[0011] For this purpose, the tap 26 comprises a body 30 having, in known manner, an end projecting element 31 to be received in the elongated hole 12 provided in the end 10 of the portion 3 of the device body 2. The tap 26 is also fixed to the body 2 by a screw (or similar fixing element) 33 inserted through the elongated hole or slot 6. It should be noted that the rigid pipe 20 is present between the screw 33 and the element 31, in contact with the inner face of the body 2 at the first portion 3, the shape of which substantially follows the shape of the pipe 20.

[0012] Finally, the body 2 is fixed to the portion 22 by screws 37 inserted through holes 16 in the end 15 and into corresponding holes (not shown) in that portion.

[0013] By virtue of the invention, securing the tap 26 to the hob 21 and to the pipe 20 and correctly positioning the shaft 25 relative to the hole 24 represent operations which are simple and quick to carry out. In this respect, to secure it to the pipe 20 the element 31 of the tap 26 is inserted through the hole 12 and the screw 33 screwed down through the hole or slot 6, this latter enabling the screw position to be adjusted along the axis W. It should be noted that the screw is screwed into a usual mouth 40 of the tap 26 carrying the element 31, and is shaped with an arched surface 47 which follows the contour of the pipe 20 on which this surface rests. The engagement between the element 31 and the hole 12 and between the screw and the mouth 40 secures the tap 26 to the pipe 20.

[0014] The screws 37 are then fixed through the holes in the portion 22 and into the holes 16, to correctly position the shaft 25 of the tap 26 within the hole 24. This hence secures the tap to the portion 22 of the hob 21 and correctly positions the tap shaft 25 relative to the hole 24.

[0015] Consequently, the use of the device 1 allows

rapid and simple fixing between various parts of the hob 21, to allow its correct utilization.

[0016] Other variants of the device 1, such as that in which the first portion 3 is arched to enable it to be better positioned about the pipe 20, can also be provided in the light of the foregoing description, and are to be considered as falling within the scope of the ensuing claims.

[0017] For example, although the device has been described in the example in association with a built-in hob, it can also be applied to free-standing appliances, such as stoves and the like.

Claims

1. A securing device (1) for a tap (26) of a gas hob (21), intended to fix said tap (26) both to a pipe (20) feeding gas to the hob (21) and to a portion (22) of said hob (21) in which a through hole (24) is provided for a control shaft (25) of the tap (26), said device being **characterised by** comprising a profiled one-piece body (2) having a first portion (3) presenting at a free end (10) a seat (12) for receiving a corresponding element (31) of said tap (26) such as to define the position for its securing to the pipe (20), said tap (26) being fixed to this latter by a mechanical fixing member (33) cooperating with a corresponding seat (6) provided in a second portion (4) of said profiled body (2), said body (2) presenting at the free end (15) of said second portion (4) at least one seat (16) for a corresponding mechanical fixing member (37) for fixing the body (2) to that said portion (22) of the hob (21) provided with the through hole (24). 20
2. A device as claimed in claim 1, **characterised in that** the seat for receiving the corresponding element (31) of the tap (26) is a through hole (12). 35
3. A device as claimed in claim 2, **characterised in that** the through hole (12) is an elongated hole. 40
4. A device as claimed in claim 3, **characterised in that** the elongated through hole (12) has its longitudinal axis (K) perpendicular to the central longitudinal axis (W) of the one-piece body (2) of the device (1). 45
5. A device as claimed in claim 1, **characterised in that** the seat for the mechanical fixing member (33) is a hole (6) provided in the second portion (4) of the one-piece body (2). 50
6. A device as claimed in claim 5, **characterised in that** the hole (6) in the second portion (4) is a slot.
7. A device as claimed in claim 6, **characterised in that** said slotted hole (6) has its longitudinal axis (F) parallel to the central axis (W) of the one-piece body (2) of the device (1). 55

8. A device as claimed in claim 1, **characterised in that** the second portion (4) of the one-piece body (2) is flat except at its end (15), which is bent through 90°, the first portion (3) of said body being inclined to the second portion (4). 5

9. A device as claimed in claim 8, **characterised in that** between said first and second portion (3, 4) an intermediate part (5) is present, also inclined to the second portion (4), but in the opposite direction to the first portion (3). 10

10. A device as claimed in claim 8 or 9, **characterised in that** the first portion (3) is inclined towards the interior of the device body (2), i.e. towards the tap (26), and is positioned about the gas fed pipe (20). 15

