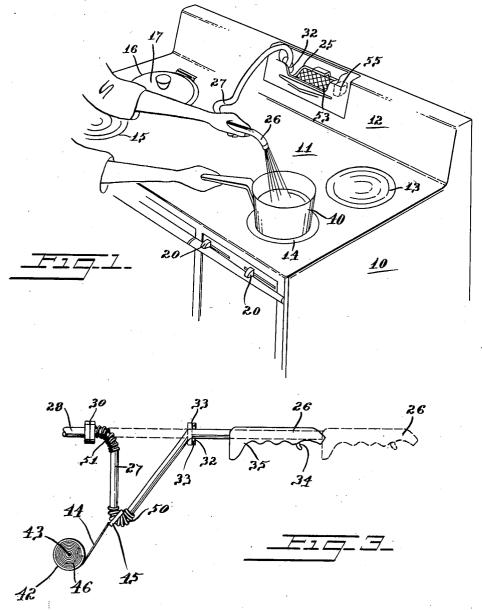
MOVABLE WATER SUPPLY ON COOKING STOVE

Filed April 30, 1948

2 SHEETS—SHEET 1



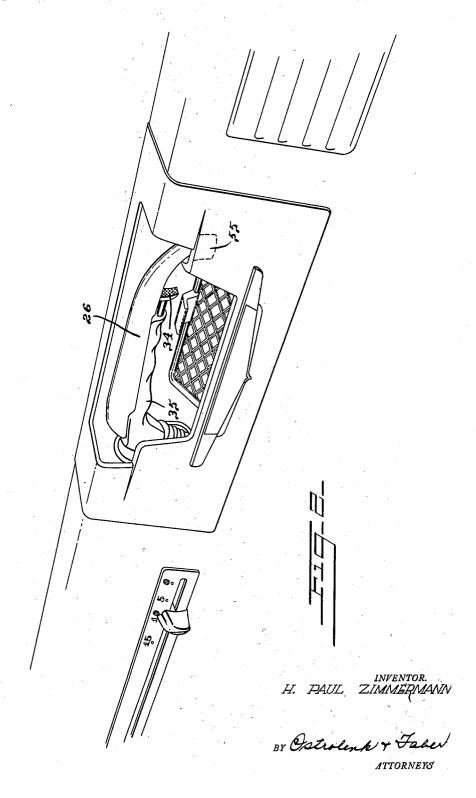
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2 SHEETS-SHEET 2



UNITED STATES PATENT OFFICE

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MOVABLE WATER SUPPLY ON COOKING STOVE

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1 Claim. (Cl. 126-1)

My present invention relates to cooking stoves and more particularly to the arrangement of a cooking stove whereby a convenient supply of water is provided for utilization in connection therewith and specifically is so arranged that the 5 source of water supply may be brought into appropriate juxtaposition with vessels on the cooking stove without requiring movement of the vessel itself or any portion of the stove proper.

In the operation and use of cooking stoves, it 10 often becomes necessary to add water to the various vessels located on the burners thereof while cooking is in progress.

Heretofore, the most convenient method used for this purpose was to fill a container at an 15 appropriate water tap and then pour the water into the vessel on the burner.

At times, where large quantities of water were required to be added, the vessel was temporarily carried off the burner to the water tap and re-

Attempts have also been made to devise unitary constructions supplying the water tap in connection with the stove itself, but such arrangements have been utilized only in connection with 25 tion when not in use. specifically movable burner arrangements; that is, the top of the stove was made rotatable so that the various burners and the vessels thereon might successively be moved beneath the opening of a water tap.

This has greatly increased the complexity of the stove structure, making it difficult and expensive to manufacture and requiring it to have an unusual and highly inconvenient shape.

of a water supply tap or outlet located in the stove itself, the opening of the water tap or the end of the water supply pipe or hose being manually movable selectively over any of the burners out requiring the movement of the vessels or movement of any portion of the stove proper.

Still more specifically, my invention contemplates the mounting of a flexible or movable hose, pipe, or tube with an appropriate nozzle on the 45 back splash panel or other convenient portion of the stove with a suitable finger operated valve at the nozzle.

The user need merely lift the hose, tube, or pipe nozzle from the back splash panel of the 50 stove or other convenient mounting thereof, move the opening of the nozzle over the particular vessel to be refilled, press the valve operator at the nozzle to refill the vessel, and then replace the nozzle at the back splash panel or other convenient mounting.

My invention, therefore, lends itself to utilization in connection with standard stove arrangements permitting the stove to retain its most convenient and useful form while at the same time providing the step-saving facilities and convenience of a simplified water supply source at the stove itself.

The primary object of my invention, therefore, is the provision of a novel water supply arrangement in connection with a cooking stove wherein a source of water may be brought into juxtaposition with any of the vessels on the cooking stove without requiring movement of the vessels or operative parts of the stove itself.

In connection with the foregoing, another object of my invention is the provision of a novel flexible water supply hose arrangement and mounting therefor at the back splash panel of a cooking stove or at any other convenient point on the stove itself.

Another object of my invention is the arrangement of a flexible water supply mounting on a cooking stove so constructed that it is automatically retracted to a recessed or at rest posi-

Another object of my invention is the provision of novel simplified means for permitting onehand operation to refill vessels on a cooking stove without requiring movement of the vessels or operative parts of the stove itself.

Another object of my invention is the provision of a novel nozzle arrangement with a flexible retractable water supply hose connected thereto so constructed that the user need merely lift the My invention is directed to the arrangement 35 nozzle and move it over a vessel on the stove, press a button to refill the vessel with the desired quantity of water, release the button, and replace the nozzle.

The foregoing and many other objects of my to refill any of the vessels on the stove top with- 40 invention will become apparent in the following description and drawings in which:

Figure 1 is a view in perspective illustrating the operation of my novel water supply arrangement mounted on a cooking stove.

Figure 2 is an enlarged view in perspective showing the back splash panel of my novel stove with the water supply nozzle in the at rest position.

Figure 3 is a schematic view illustrating one method by which the water supply flexible hose or tube may be automatically retracted to the at rest position when not in use.

Referring now to the figures, I have here shown a cooking stove 10 having a top 11 and a back 55 splash panel 12. Various burner arrangements, such as the burners 13, 14, and 15, may be pro-

The burners are here shown arranged on either side of the stove with a flat work surface between them. Other arrangements of burners may, of course, be used; the four burners may be arranged at one side of the stove with the working platform at the other side of the stove; a deep-well cooker need not necessarily be provided; the burners may be electrical burners, gas 10 burners, or the stove may be of a type which uses any other kind of fuel; the controls indicated generally at 20, 20 may, of course, be varied to suit the type of energy used and the type of operation desired.

Various automatic or other controls may be utilized in connection with the stove, and various other types of burners or cookers may be used so that, for instance, provision may be made for an oven, broiler, or other cooking or baking 20 areas.

My invention is directed specifically to the construction shown at the back splash panel 12 which has a recess 25 in which the nozzle 26 of the flexible hose 27 normally rests as shown in 25 Figure 2; the nozzle 26 and the hose 27 may, of course, be supported in any suitable manner on or at the stove and need not necessarily be mounted in a recess, although this is the preferred construction.

A water supply pipe 28 as shown in Figure 3 is led from an appropriate source of water under appropriate pressure to the rear of the stove.

The flexible hose 27 is connected by suitable connecting means indicated generally at 30 to the 35 water supply pipe. The opposite end of the flexible hose is connected to the nozzle member 26.

The hose 27 is led through the opening 32 of recess 25 from the rear or interior of the stove to the exterior as shown in Figures 1 and 2.

The opening 32 may be provided with antifriction rollers indicated generally at 33, 33 of Figure 3, although these are not essential.

The nozzle 26 is provided with an appropriate valve which may be of suitable well-known con- 45 struction and operated by the trigger 34; pressing the trigger 34 toward the left with respect to Figure 3 opening the valve, and releasing the trigger 34 closing the valve.

able hand grip arrangement as shown at 35 of Figures 2 and 3.

The user of the stove when it is necessary to refill any of the vessels 40 located on any of the burners need merely pick up the nozzle 26 as shown in Figure 1, pull it over to the vessel 40 pulling out the hose 21, and then press the trigger 34 with the thumb or forefinger to release the appropriate quantity of water into the vessel 40.

When the desired quantity of water has been delivered to the vessel, the user need merely release the trigger 34 and then replace the nozzle member 26 in the recess 25.

A sufficiently long slack loop may be provided 65 for the hose 27 between the connection 30 to the water supply pipe 28 and the opening 32 so that the weight of this slack loop would tend to draw back the extended portion of the hose 27 and the nozzle 26 or so that the user need merely lift 70 up the nozzle 26 substantially above the opening 32 so that the hose 27 would fall back therein; or, if desired, specific hose retracting means may be provided.

One such hose retracting means is indicated 75 tained but only by the appended claim.

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generally in Figure 3. A roller 42 may be rotatably mounted on a stud 43 which is secured to the rear wall or an appropriate stationary structural member of the stove.

A torsional spring 46 is connected between the stud 43 and the roller 42 and is so arranged as to produce a clockwise bias on the roller 43 with respect to Figure 3.

A tape 44 which may be of flexible metallic material is connected to the periphery of the roller at one end and at the other end is connected to a stop member 45 secured to the base of the slack loop of the hose 27.

When the nozzle 26 and hose 27 are drawn out 15 through opening 32, the flexible metallic tape 44 is pulled out, thereby rotating the roller 42 and tensioning the spring 46.

The stop member 45 on the hose 27 when it reaches the opening 32, since it is larger than the opening 32, will prevent the pulling out of the hose beyond any required distance for which the stop member 45 is set.

When the pull on the nozzle 26 is relaxed, the spring 46 will retract the hose through opening 32. The user need then merely guide the nozzle 26 back to the recess 25 without being required to lift the nozzle in any way to push the hose back through the opening 32.

A wire coil 50 may be placed around the hose 27 at the base of the slack loop in order to reinforce the hose at this point and to prevent too sharp a bend thereat. The wire coil is, of course, sufficiently flexible to permit the extension and retraction of the hose 27.

Similarly, a wire coil 51 may be placed at the bend of the hose 27 adjacent its connection 30 to the water supply pipe 28 to prevent too sharp a bend of the flexible hose at that point while 40 permitting the hose to bend sufficiently to be extended and retracted.

The base of the recess 25 may, of course, be appropriately shaped to provide proper support for the nozzle member 26 and to blend with the exterior ornamental appearance of the stove itself.

In addition, the base of the recess may be provided with an appropriate drip pan 53 which may be removable or otherwise drainable, and the end The nozzle 26 may also be provided with a suit- 50 of the recess 25 which receives the opening of nozzle 26 may be provided with a recess 55 to receive and position this end of the nozzle; this opening 55 may also, if desired, be provided with a removable cup so that any water dripping thereinto from the nozzle may, if required, be drained.

By the means herein shown, therefore, I have provided a novel simplified method and means for adding water to vessels on or in a cooking stove without requiring any movement of the vessel itself or any movement of the operative parts of the cooking stove.

The water supply unit requires but a single one-hand operation, obviates the necessity for moving the vessels to a remote water supply or bringing water from a remote water supply to the vessels and also obviates the necessity for rearrangement of the operative parts of the cooking stove.

In the foregoing I have described my invention solely in connection with specific illustrative embodiments thereof. Since many variations and modifications of my invention will now be obvious to those skilled in the art, I prefer to be bound not by the specific disclosures herein con-

I claim:

In a device of the class described, the combination which comprises a stove having a plurality of burners, a splash panel, a flexible water hose having a valved nozzle, recessed means for support- 5 ing said nozzle on said splash panel, said means having an apertured vertical wall carried by said splash panel substantially at right angles thereto, said hose passing through said apertured wall and having its outer end connectible to a source 10 of water, a slack portion in said hose below said splash panel, a tension member secured to said hose at a bend in said slack portion, a tension spring secured to said tension member and serving to pull said hose rearwardly through said 15 apertured wall in a plane parallel to said splash

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panel so as to normally maintain said nozzle in secured position on said supporting means.

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