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WO-A1-2010/108111
DE-U1-202008 004 505
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US-A1- 2005 194 002

DESCRIPTION

Technical Field

[0001] The present invention relates to a stove, and in particular to an inset stove for burning solid fuel such as logs.

Background to the Invention

[0002] Stoves which burn solid fuel such as logs have long been popular for use in domestic dwellings because of their heating and aesthetic qualities. One common type of solid fuel burning stove is known as an inset stove, as it is received in an opening in a wall so that its front fascia lies flush with or protrudes only by a small distance from the surface of the wall in which the inset stove is received.

[0003] Stoves of this type include a combustion chamber or firebox in which fuel such as logs is received. A door provides access to the firebox, which has a flue outlet through which smoke and other combustion products are exhausted to the outside of the stove, typically through a flue provided in the building in which the stove is installed.

[0004] The stove is provided with vents or air inlets through which external air can be introduced into the firebox to control the rate of combustion of the fuel. Typically these vents are provided towards a front surface of the stove and have a slotted grill, behind which a damper plate is slideably mounted. A lever is attached to the damper plate to allow the damper plate to be moved to cover or partially cover the slots in the grill, thereby preventing or restricting airflow through the slots of the grill into the firebox.

[0005] Vents of this type can be difficult to operate accurately, because of the difficulty in manually moving the damper plate to a precise position in which a desired airflow is achieved. Moreover, as it can be difficult to achieve repeatedly a particular airflow setting because of the difficulty in manually moving the damper to exactly the same position as it has previously occupied, repeatability is a problem in stoves with vents of this type. Additionally, the lever which controls the damper plate typically projects outwardly of a front fascia of the stove, which can be unsightly and can therefore have a negative aesthetic effect on the stove, particular where the stove is an inset stove which is designed to have a substantially flat fascia.

[0006] US 2005/194002 discloses an air bypass system for use with a heating appliance that includes an outer enclosure and a combustion chamber enclosure positioned within the outer enclosure. The bypass system includes a first opening providing an air passage between a source of air from a remote location and an air space defined between the outer enclosure and the combustion chamber enclosure. The bypass system also includes a second opening

providing an air passage between a source of room air and the air space, and an actuating member configured for movement between a first position substantially covering the first opening wherein the second opening is open for air flow, and a second position substantially covering the second opening wherein the first opening is open for air flow.

[0007] US 4313418 discloses a damper control system wherein a control screw is threadedly mounted in a door and engages a depending contact arm on a damper to move the damper between a closed position and various open positions.

[0008] DE 202008004505 relates to a wood burning stove with a combustion chamber surrounded by a number of walls, at least one of which comprises a door with a viewing window.

[0009] EP 1411299 discloses a fireplace comprising several access points, a closable combustion chamber, and at least one window unit with multiple glazing.

[0010] WO2010/108111 discloses a fireplace assembly with an integrated burn control which may be used in combination with gas-burning fireplaces, stoves, and fireplace inserts.

[0011] The fireplace assembly includes: a control panel; a concealment door that conceals the control panel when the concealment door is closed; automatic control panel lighting that is activated when the concealment door is open; a split flow or dual burner assembly that simulates a natural wood burning fire; and an intermittent pilot ignition system that allows a pilot flame to run continuously or intermittently.

Summary of Invention

[0012] The present invention provides a stove according to the appended claims.

[0013] The use of rotary control means in the stove of the present invention permits greater precision and repeatability in positioning the valve gasket than in prior art stoves, as the rotary control means can easily be set to a previously used setting in which the valve gasket is positioned to achieve a desired airflow, whilst the recessed position of the rotary control means with respect to the fascia, and the concealing means allow the rotary control means to be concealed to add to the aesthetic appeal of the stove.

Brief Description of the Drawings

[0014] Embodiments of the invention will now be described, strictly by way of example only, with reference to the accompanying drawings, of which:

Figure 1 is a perspective view of a stove according to an embodiment of the present invention;

Figure 2 is a schematic representation of a latch mechanism for latching a door of the stove of Figure 1 in a closed position.

Figure 3 is a view of the front of the stove of Figure 1;

Figure 4 is a schematic cross-sectional view taken from one side of the stove of Figure 1;

Figure 5 is a schematic perspective representation of a valve assembly used in the stove of Figures 1 and 3;

Figure 6 is an exploded perspective view of the valve assembly shown in Figure 5; and.

Figures 7 to 10 are schematic cross-sectional views of the valve assembly shown in Figures 5 and 6, illustrating the operation of the valve assembly.

Description of the Embodiments

[0015] Referring first to Figure 1, a stove is shown generally at 10. The stove shown in Figure 1 is an inset stove which is intended to be received in an opening in a wall of a building such as a domestic dwelling. The stove 10 has a frame 12, a rear side of which abuts the wall around the opening when the stove 10 is installed, such that a front face of the frame 12 faces away from the wall.

[0016] The frame 12 is attached to a stove body 14 which extends rearwardly of the frame 12 and, when the stove 10 is installed, is received in the opening in the wall. A door 16 is attached to the stove body 14 by means of a hinge 18, and opens to permit access to an interior of the stove 10. The door 16 in this example takes the form of a frame 20 of a metallic material that surrounds a panel 22 of tempered glass or another heat resistant material to permit visual access to the interior of the stove 10. The frame 20 of the door 16 is provided with a cut-out section 24 to accommodate rotary control knobs 26 of a valve assembly of the stove 10, which are positioned so as to be recessed with respect to a fascia of the stove 10 (which in this example is provided by the door 16) so that when they can be concealed to provide a substantially flat fascia to add to the aesthetic appeal of the stove 10.

[0017] The door 16 includes latching means to secure it in its closed position. As shown in Figure 2, the latching means 30 in this example comprises a rod 32 which is rotatably mounted at the opposite side of the door 16 to the hinge 18. The rod 32 includes a latch formation in the form of a hook 34 which extends outwardly of the rod and is configured to engage with a complementary receiving formation in a part of the stove 10 such as the frame 12 or body 14 of the stove 10 that is positioned adjacent the rod 32 when the door 16 is closed, to latch the door 16 in its closed position. A lower end of the rod 32 is received in a sleeve from which a lever 36 extends, in a direction generally opposed to the direction of the latch formation 34.

When the door 16 is closed, the lever 36 extends laterally of the rod 32 beneath the frame 20 of the door, such that the lever does not protrude outwardly beyond the pane of the frame 20 of the door 16.. The lever 36 terminates in a panel 38 which, when the door 16 is closed, is received in the cut-out section 24 of the frame 20 and lies substantially flush with the frame 20 of the door 16 to conceal the rotary control knobs 26 of the stove 10. A rear side of the panel 38 is provided with a tab which can be received by a spring latch provided in this example at a position intermediate the rotary control knobs 26, but which may be provided on the frame 20 of the door 16 or in any appropriate position on the stove body 14, to hold the panel 38 in position and thus prevent movement of the lever 32 and opening of the door 16.

[0018] Figure 3 shows the stove 10 with the door 16 closed, from which it can be seen that when the door is closed the panel 38 conceals the rotary control knobs 26. In this way, with the door 16 closed the stove 10 has a substantially flat fascia..

[0019] To open the door 16, the panel 38 is depressed to release the spring latch, permitting movement of the panel 38 and lever 36. The lever 36 is then pivoted outwardly of the frame 12 of the stove 10. The lever 36 is free to rotate through a predefined angle without causing the rod 32 to rotate, to permit access to the rotary control knobs 26 without releasing the latch formation 34 from its engagement with the complementary receiving formation. In this example the angle is approximately 60 degrees, as this causes the lever 36 and the panel 38 to move sufficiently far from frame 12 of the stove to allow adequate room for the rotary control knobs 26 to be accessed. It will be appreciated that any angle of rotation that achieves this could equally be employed.

[0020] Once the lever 36 has rotated through an angle greater than the predefined angle, for example through an angle greater than 60 degrees, the sleeve engages with the rod 32, causing the rod 32 to rotate, which in turn causes the latch formation 34 to disengage from the complementary receiving formation. Once the latch formation 34 has completely disengaged from the receiving formation the door 16 can be opened to permit access to the interior of the stove 10.

Figure 4 is a schematic cross-sectional view taken from one side of the stove 10. As can be seen from Figure 4, the stove 10 includes a combustion chamber or firebox 40, which is positioned so as to be visible through the panel 22 of the door 16 when the door 16 is closed. A flue outlet 42 is provided in an upper part of the firebox 40 to allow smoke and other combustion products to be exhausted to an exterior of the stove 10, typically through a flue provided in the building in which the stove is installed. A rear wall 44 of the firebox 40 is provided, towards an upper part, with a first air inlet 46, and towards a lower part with a second air inlet 48. The first air inlet 46 communicates with a first conduit 50 which receives air from an exterior of the stove 10, whilst the second air inlet 48 communicates with a second conduit 52 which receives air from the exterior of the stove 10. The first conduit 50 contains a first valve which is controlled by one of the rotary control knobs 26, and the second conduit 52 contains a second valve which is controlled by the other of the rotary control knobs 26, as is described in detail below.

[0021] The stove 10 includes a valve assembly 60 which controls airflow to the first and second air inlets 46, 48 of the firebox 40. The valve assembly is provided as a removable cartridge 62 which slots into the stove body 14 beneath the firebox 40, as shown in Figure 4. This arrangement is advantageous as it facilitates servicing or replacement of the valve assembly 60, as the cartridge 62 can simply be slid out of the stove body 14 without disassembling the stove 10.

[0022] Figure 5 is a schematic perspective representation of the valve assembly 60. As can be seen from Figure 5, the valve assembly includes a control fascia 64 on which the rotary control knobs 26 are mounted. The control fascia 64 is connected to a valve frame 66 in which first and second valve closures 68, 70 are received. The first and second valve closures 68, 70 each have a valve gasket 72 which securely seals an aperture in the first or second conduit 50, 52 when the valve closures 68, 70 are raised to a position in which they are fully engaged with the aperture, to close the aperture and prevent air flow to the first and second air inlets 46, 48. Mechanical linkages containing control screws, push rods and bell cranks link the valve closures 68, 70 to the rotary control knobs 26 such that rotation of the rotary control knobs 26 raises or lowers the valve apertures 68, 70 to regulate the airflow to the first and second air inlets 46, 48, as will be described below with reference to Figures 6 to 11 of the drawings.

[0023] The exploded perspective view of Figure 6 shows the arrangement linking one of the rotary control knobs 26 to the first valve closure 68, but it is to be appreciated that the arrangement linking the other control knob 26 to the second valve closure 70 is identical in its construction and operation, but is a mirror image of the arrangement shown in Figure 6, as can be seen from Figure 5.

[0024] As can be seen from Figure 6, the rotary control knob 26 is mounted on a threaded control screw 74 which passes through an aperture in the control fascia 64 and a co-axial threaded aperture in a thread block 76 which is disposed immediately behind the control fascia 64. The control knob 26 is secured to the control screw 74 by means of a grub screw 78. A compression spring 80 is mounted on the control screw 74 and abuts at one end against a washer 82 which is retained by a pin 83 which passes through the control screw 74 and at the other end against the thread block 76 to bias the control screw 74 towards an extended position.

[0025] The thread of the aperture in the thread block 76 is complementary to the thread of the control screw 74 such that when the control screw 74 is rotated by anti-clockwise rotation of the control knob 26 a free distal end 84 of the control screw 74 extends linearly away from the thread block 76, and when the control screw 74 is rotated in a clockwise direction the free distal end 84 of the control screw 74 retracts linearly towards the thread block 76. The inter-engagement of the threads of the control screw 74 and the aperture of the thread block 76 also acts to hold the control screw 74, and thus the control knob 26, in position when rotation of the control knob 26 ceases.

[0026] The free distal end 84 of the control screw abuts against a free end 86 of a push rod

88, which passes through an aperture 90 in a front plate 92 of the valve frame 66. The valve frame 66 has two side plates 94 which are substantially parallel to each other and which have attachment lugs 96 that are substantially perpendicular to the side plates 92 such that when the side plates 94 are attached to the front plate 92 by means of the attachment lugs 96 the side plates 94 are substantially perpendicular to the front plate 94. The valve frame 66 also has a floor plate 97 which extends between the side plates 94. A tongue 98 extends outwardly of a rear edge of the floor plate 97. The tongue 98 is resiliently biased in a downward direction and, when the valve assembly 60 is received in the stove 10, engages with a base plate of the stove to urge the top of the valve frame 66 towards a plate in which air inlets of the conduits 50, 52 are provided, to hold the valve frame 66 securely in the correct position with respect to the air inlets of the conduits 50, 52. The tongue 98 also has a secondary effect of impeding movement of the valve assembly 60 with respect to the stove 10, but does not prevent removal of the valve assembly 60 from the stove if sufficient force is applied to pull the valve assembly 60 out of the stove 10.

[0027] A first pair of mounting holes 100 are provided in a forward portion of each of the side plates 94 for receiving a substantially cylindrical bell crank shaft 102. The first mounting holes 100 of the side plates 94 are aligned, such that when the bell crank shaft 102 is received in the first mounting holes 100 its longitudinal axis is substantially parallel to the front plate 92 of the valve frame 66. A second pair of mounting holes 104 are provided in a rear portion of each of the side plates for receiving a substantially cylindrical valve shaft 106. The second holes are aligned such that when the valve shaft 106 is received in the second holes 106 its longitudinal axis is substantially parallel to the front plate 92 and the longitudinal axis of the bell crank shaft 102.

[0028] A bell crank 108 is attached to an exterior surface of one end of hollow, generally cylindrical sleeve 110 which is rotatably mounted on the bell crank shaft 102, such that when the bell crank shaft 102 and the sleeve 110 are installed in the valve frame 60 the bell crank 108 is positioned adjacent one of the side plates 94 and can rotate about the bell crank shaft 102.

[0029] The bell crank 108 has a generally flat first arm 111 which acts as an engagement portion. A hole or recess is provided in the first arm 111 to retain a distal end of the push rod 88. One side of a free end of the first arm 111 is attached to the exterior surface of the end of the sleeve 110. A second arm 112 extends outwardly of the first arm 111 in a direction generally perpendicular to the first arm 111, such that in normal use of the valve assembly 60 the second arm 112 extends towards a rear of the valve assembly 60. A distal end portion 114 of the second arm 112 is angled upwardly with respect to the second arm 112, and a generally cylindrical rod 116 is mounted on the distal end portion 114 of the second arm 112 extending in a direction generally perpendicular to the second arm 112 such that a longitudinal axis of the rod 116 is substantially parallel to those of the bell crank shaft 102 and the valve shaft 106.

[0030] The first valve closure 68 has first and second side plates 118 which are disposed in a substantially parallel spaced configuration, being linked together by a top plate 120. The first

and second side plates 118 are each provided with a notch 122 in a front portion of the first and second side plates 118, and when the first valve closure 68 is assembled these notches 122 are aligned such that the first valve closure 68 can be rotatably mounted on the valve shaft 106 by receiving the valve shaft 106 in the aligned notches 122. A valve weight 124 is attached to an underside of the top plate 120 at a position intermediate the notches 122 and a rear edge 126 of the top plate 120, and the valve gasket 72 is provided on an upper surface of the top plate 120.

[0031] When the valve assembly 60 is assembled, the first valve closure 68 is mounted on the valve shaft 106, and the valve weight 124 causes the valve closure 68 to rotate in a clockwise direction until the underside of the top plate 120 abuts against the rod 116. Thus, in normal operation of the valve assembly the first valve closure 68 is supported by the valve shaft 106 and by the rod 116.

[0032] The operation of the valve assembly 60 will now be described with reference to Figures 7 to 10 of the drawings, which are cross-sectional views of the valve assembly 60 with the valves in different positions corresponding to different airflow settings.

[0033] Figure 7 shows the valve assembly 60 with the first valve closure 68 in a fully open position. In this position the valve closure 68 rests on a stop 130 of the valve assembly 60.

[0034] Rotation of the control knob 26 in an anti-clockwise direction causes the control screw 74 to move towards the valve closure 68, which in turn causes the push rod 88 to extend. The distal end of the push rod 88, which abuts against the first arm 111 of the bell crank 108, causes the bell crank 108 to rotate about the bell crank shaft 102. The second arm 112 of the bell crank 108 therefore rotates in an anti-clockwise direction, as shown by the arrow 132 of Figure 8, and the magnitude of the rotation of the second arm 112 is much larger than the magnitude of the movement of the push rod 88, i.e. the bell crank 108 amplifies the motion of the push rod 88. The rod 116 mounted on the distal end portion of the second arm 112 moves with the second arm 112, and as the underside of the top plate 120 of the valve closure 68 abuts against the rod 116, this causes the valve closure 68 to be raised by pivoting around the valve shaft 106. The position of the valve weight 124 intermediate the notches 122 and the rear edge 126 of the top plate 120 ensures that the rear edge 126 of the top plate 120 is lifted before the front edge of the top plate 120. This has advantageous effects, which are described below.

[0035] When the rear edge 126 of the top plate 120 comes into contact with the area around the aperture in the conduit 50, 52 rotation of the valve closure 68 around the valve shaft 106 is no longer possible, and the valve closure 68 begins to pivot around the point of contact between the top plate 120 and the area around the aperture, as indicated by the arrow 134 of Figure 9, lifting the front edge of the top plate 120. Further anti-clockwise motion of the control knob 26 causes this motion to continue until the valve closure 68 is fully seated and the valve gasket 72 seals the aperture to close the valve and prevent airflow through the aperture, as shown in Figure 10.

[0036] The rotation of the control knob is limited by a first pin 136 which passes through the control screw 74 and interacts with a second pin 138 which extends rearwardly of the thread block 76. The first pin 138 acts as a stop to limit rotation of the control screw 74 in either direction. The length and position of the first and second pins 136, 138 are selected so that the degree of rotation permitted by the interacting first and second pins 136, 138 ensures that the valve closure 68 has sufficient travel to become fully seated (closed) and fully open with sufficient tolerance to accommodate slight variations in stove dimensions.

REFERENCES CITED IN THE DESCRIPTION

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- [DE202008004505 \[0008\]](#)
- [EP1411299A \[0009\]](#)
- [WO2010108111A \[0010\]](#)

Patentkrav

1. Ovn (10) omfattende et forbrændingskammer (40) og en ventilanordning (60) til at regulere luftstrøm ind i forbrændingskammeret (40), hvor ventilanordningen
5 (60) omfatter en ventillukning (68, 70) til at lukke en ventilåbning af ovnen og drejestyreorgan (26) til at hæve ventillukningen (68, 70) mod ventilåbningen og sænke ventillukningen (68, 70) væk fra ventilåbningen, hvor drejestyreorganet (26) er positioneret for således at være forsænket i forhold til en front af ovnen (10), og ved at ovnen (10) yderligere omfatter skjuleorgan (38) til at skjule
10 drejestyreorganet (26), **kendetegnet ved at** ovnen yderligere omfatter:

en dør (16) af ovnen (10) forsynet med et udskåret afsnit (24) til at akkommodere drejestyreorganet (26); låseorgan til at fastgøre døren (16) i
dens lukkede position, hvor låseorganet omfatter en stang (32), der er drejeligt monteret i en del af døren (16) og der har en indgrebsformation,
15 der er konfigureret til at indgribe med en komplementær modtagelsesformation forsynet i en del af ovnen, der er positioneret tilstødende stangen, når døren (16) er lukket, hvor låseorganet yderligere omfatter en arm (36), der indgriber med stangen (32) og kan bevæges for at skabe rotation af stangen (32); og hvor skjuleorganet omfatter en plade
20 (38) tilvejebragt på armen (36), hvilken plade (38) er konfigureret til at blive modtaget i det udskårne afsnit (24) af døren (16).

2. Ovn ifølge krav 1, hvor armen (36) er fri til at rotere igennem en forudbestemt vinkel uden at indgribe med stangen (32), således at stangen (32) ikke roterer
25 under rotation af armen (36) igennem den forudbestemte vinkel.

3. Ovn ifølge krav 2, hvor den forudbestemte vinkel er cirka 60 grader.

4. Ovn ifølge krav 1, hvor pladen (38) er forsynet med låseorgan til at holde
30 pladen (38) i position og begrænse bevægelse af armen (36).

- 5.** Ovn ifølge et hvilket som helst af de foregående krav, hvor ventilanordningen (60) omfatter en mekanisk forbindelse, der forbinder drejestyreorganet (26) til ventillukningen (68, 70).
- 5 **6.** Ovn ifølge krav 5, hvor den mekaniske forbindelse omfatter en styreskrue (74), der er fastgjort til drejestyreorganet (26) til drejebevægelse dermed, hvor styreskruen (74) har en fri ende, der støder op mod en fri ende af en skubbestang (88), hvor skubbestangen (88) har en fri distal ende, der indgriber med en første arm af en drejeligt monteret vinkelarm (108), der har en anden arm, der virker
- 10 på ventillukningen (68, 70), således at rotation af drejestyreorganet (26) forårsager drejebevægelse af vinkelarmen (108) og derved bevægelse af ventillukningen (68, 70).
- 7.** Ovn ifølge krav 5, hvor ventillukningen (68, 70) er forsynet med indsnit (122)
- 15 på linje i forreste dele af sideplader af ventillukningen (68, 70) ved hjælp af hvilke ventillukningen (68, 70) er monteret på en ventilaksel (106), således at bevægelse af vinkelarmen (108) forårsager drejebevægelse af ventillukningen (68, 70) omkring ventilakslen (106).
- 20 **8.** Ovn ifølge krav 7, hvor ventillukningen (68, 70) er forsynet med en vægt (124), der er positioneret mellemliggende indsnittene (122) og en bageste del af ventillukningen (68, 70).
- 9.** Ovn ifølge krav 7 eller krav 8, hvor en stang er monteret på en distal ende af
- 25 den anden arm af vinkelarmen (108) til at indgribe med en underside af en toplade af ventillukningen (68, 70), således at, hvis drejebevægelse af ventillukningen (68, 70) omkring ventilakslen (106) hæmmes ved kontakt mellem den bageste del af ventillukningen (68, 70) og en genstand, vil yderligere bevægelse af vinkelarmen (108) forårsage at ventillukningen (68, 70) drejer
- 30 omkring et kontaktpunkt mellem den bageste del af ventillukningen (68, 70) og genstanden.

10. Ovn ifølge et hvilket som helst af de foregående krav, hvor ventillukningen (68, 70) er forsynet med en ventilpakning (72).

11. Ovn ifølge et hvilket som helst af de foregående krav, hvor ventilanordningen 5 omfatter stoporgan til at begrænse omfanget af rotation af drejestyreorganet (26).

12. Ovn ifølge krav 11, hvor stoporganet omfatter en første stift (136), der rager frem fra en del af ventilanordningen til indgriben med en anden stift (138), der er 10 forbundet med drejestyreorganet (26).

13. Ovn ifølge et hvilket som helst af de foregående krav, hvor ventilanordningen er forsynet med en elastisk tunge til at forspænde ventilanordningen mod en position i hvilken ventillukningen (68, 70) er korrekt positioneret i forhold til 15 ventilåbninger af ovnen (10).

14. Ovn ifølge et hvilket som helst af de foregående krav, hvor ventilanordningen er tilvejebragt som en aftagelig kassette (62).

DRAWINGS

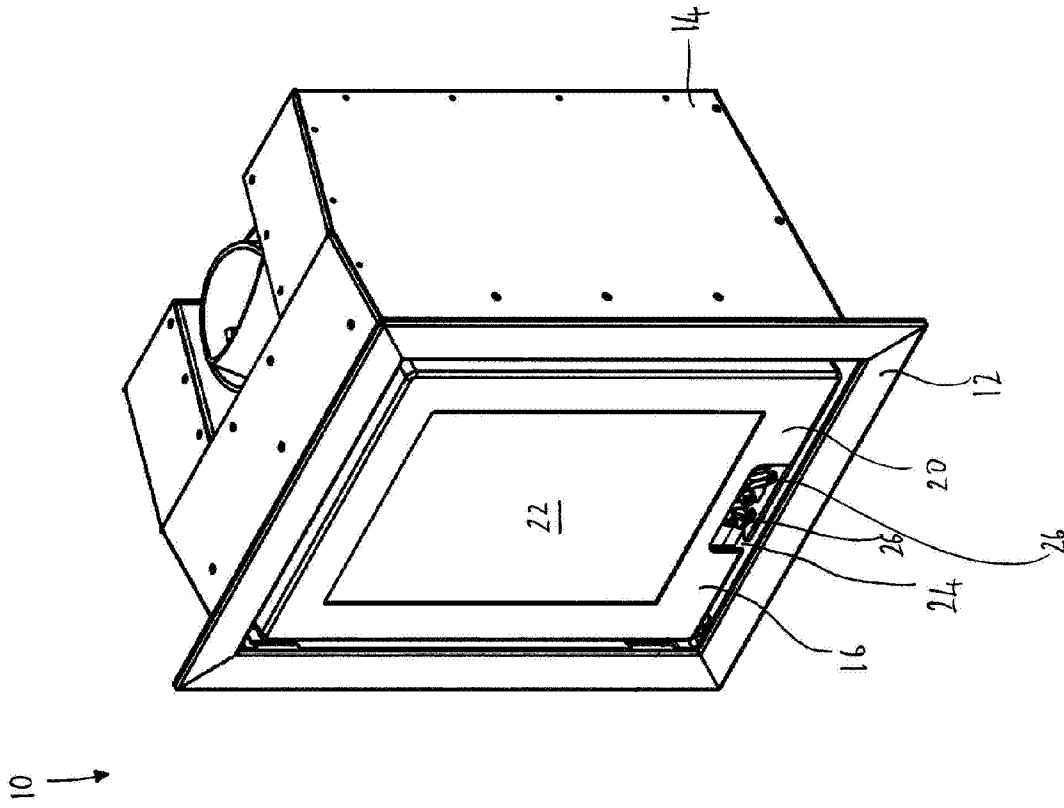


Figure 1

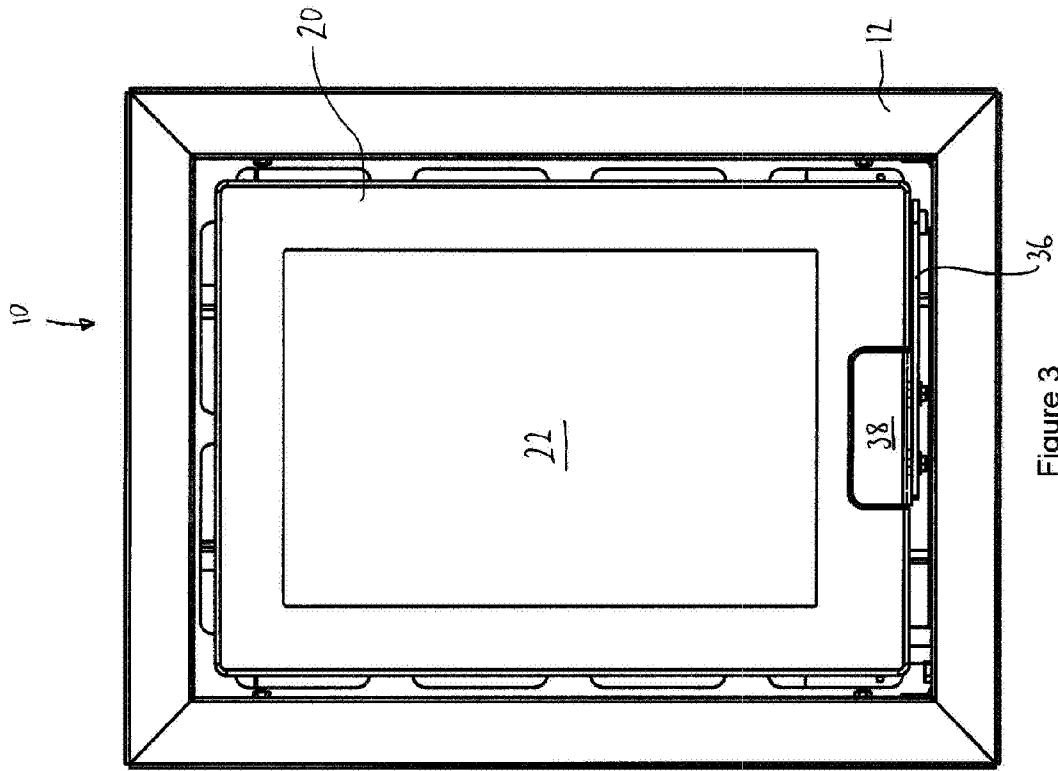


Figure 3

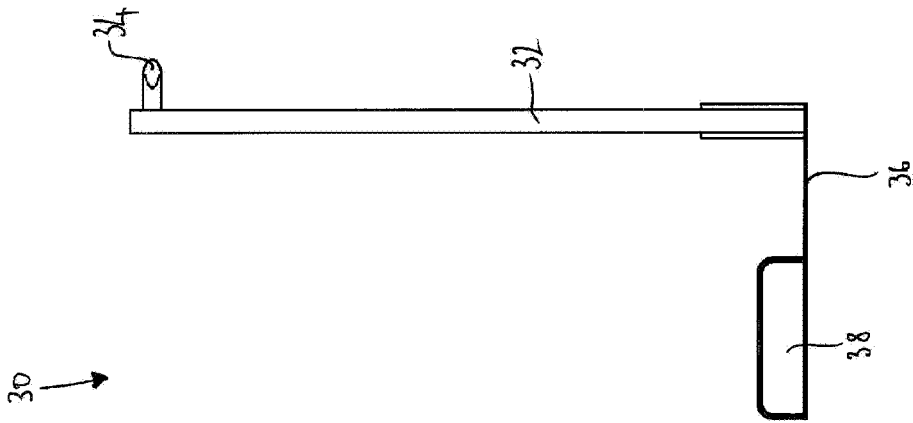


Figure 2

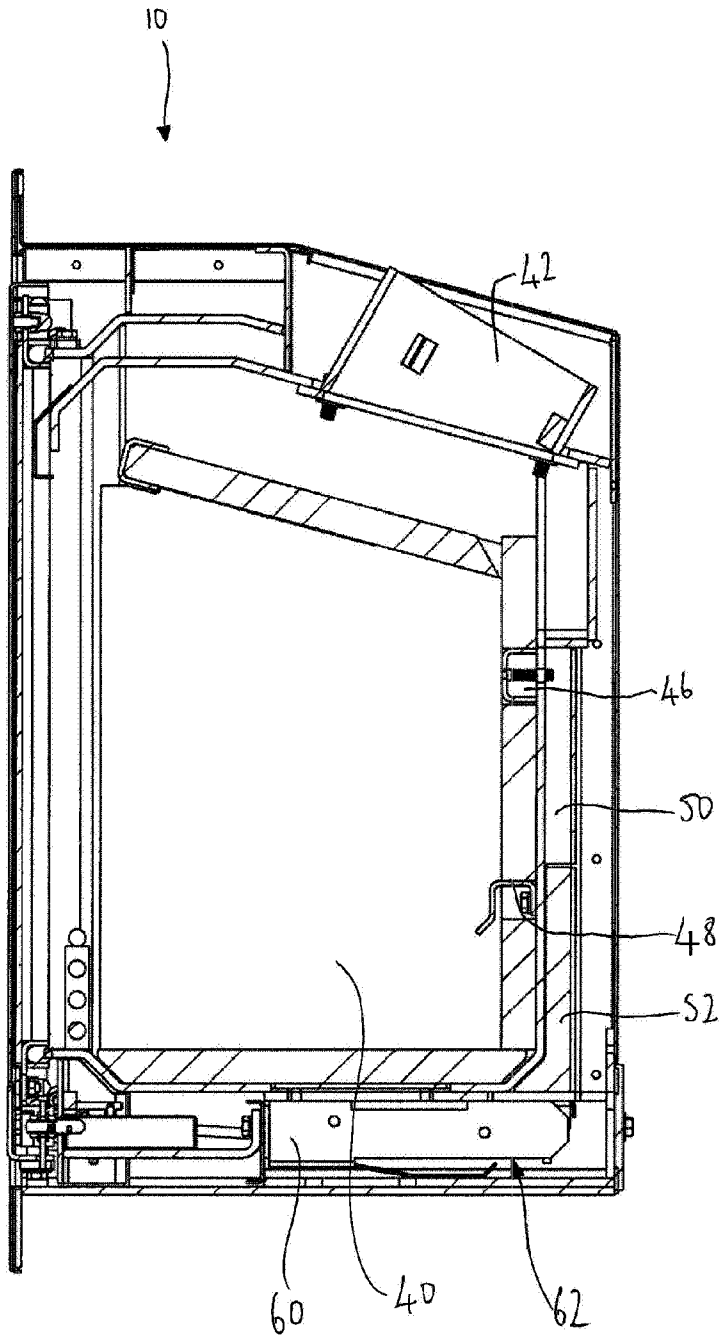


Figure 4

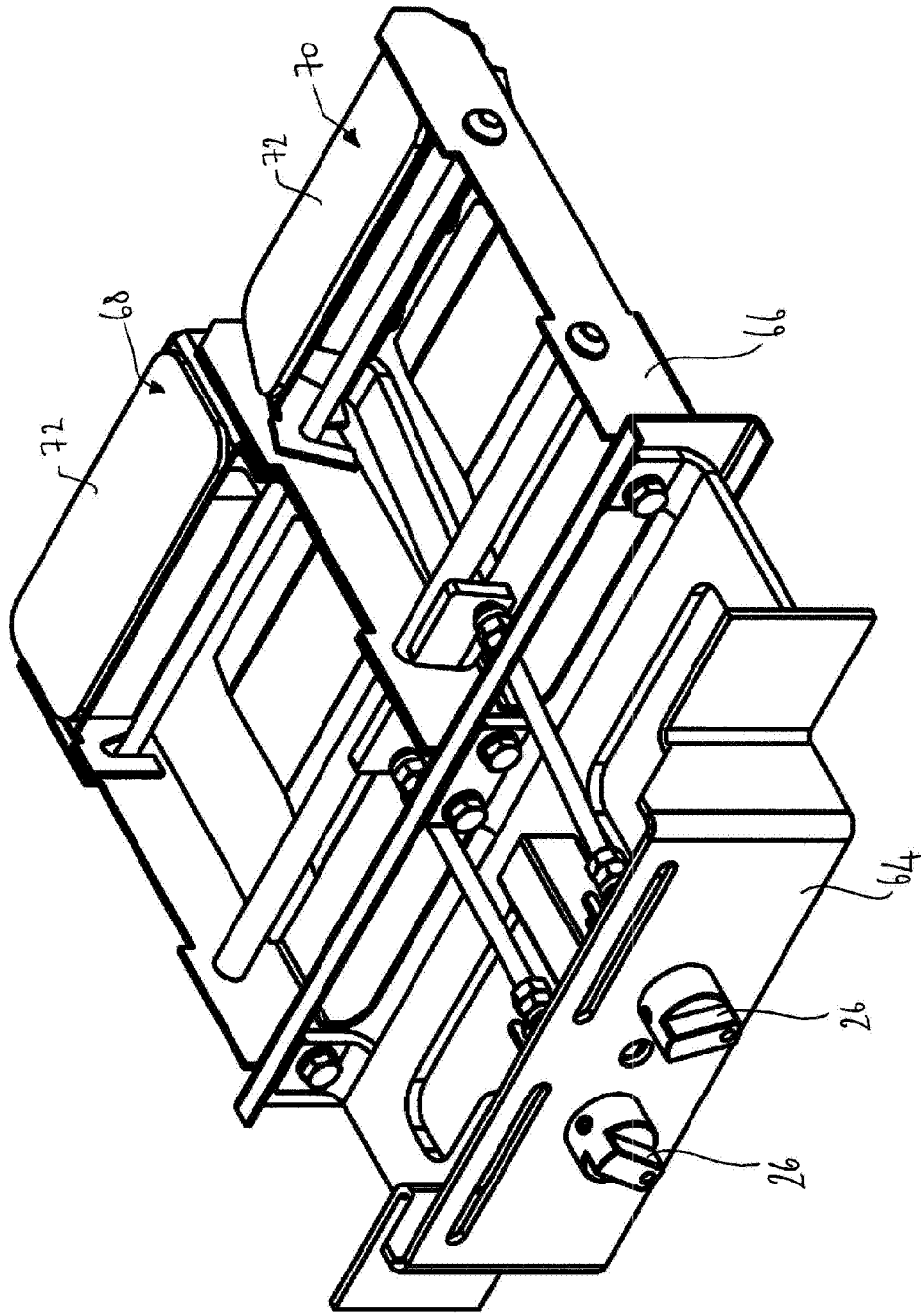


Figure 5

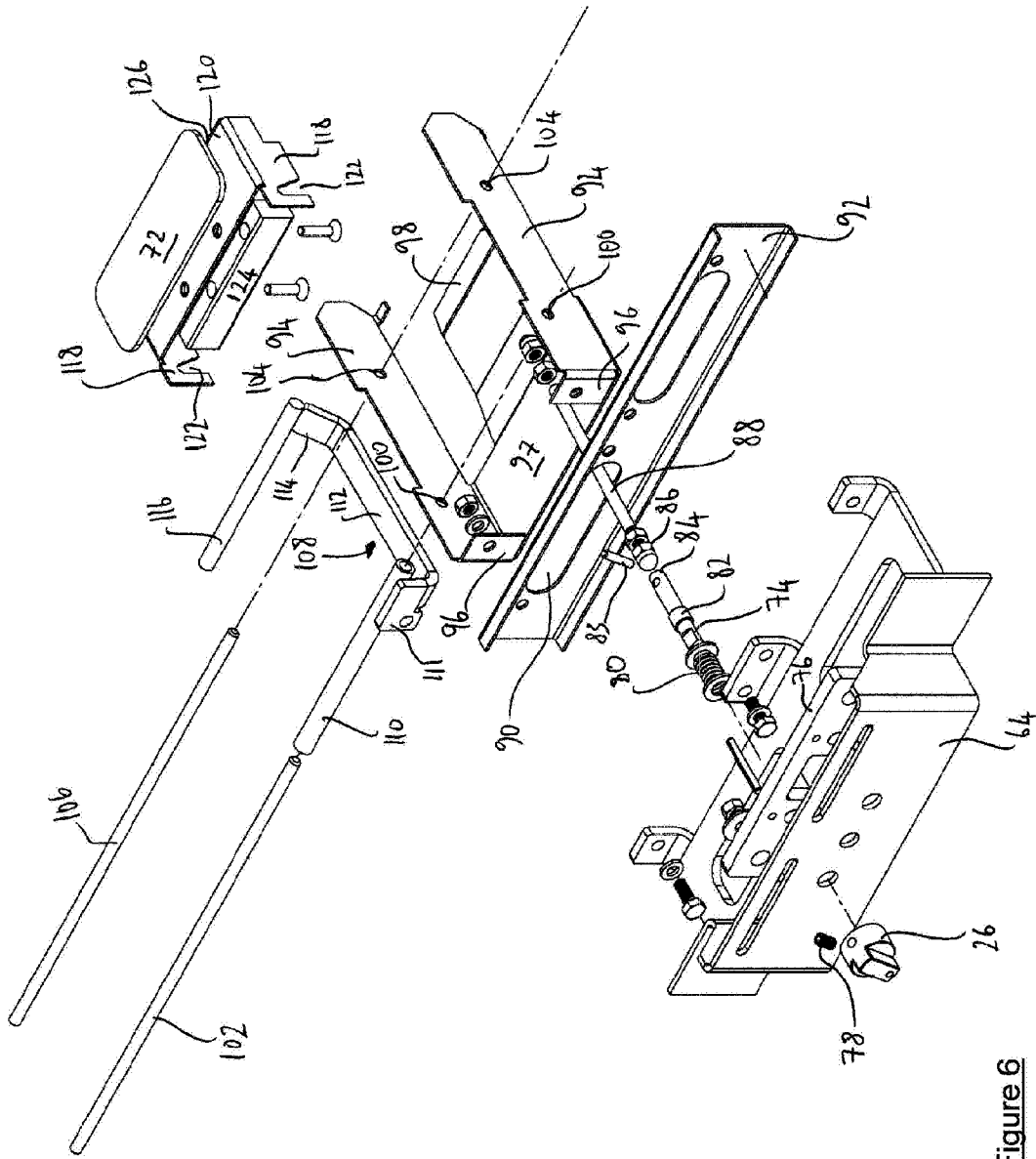


Figure 6

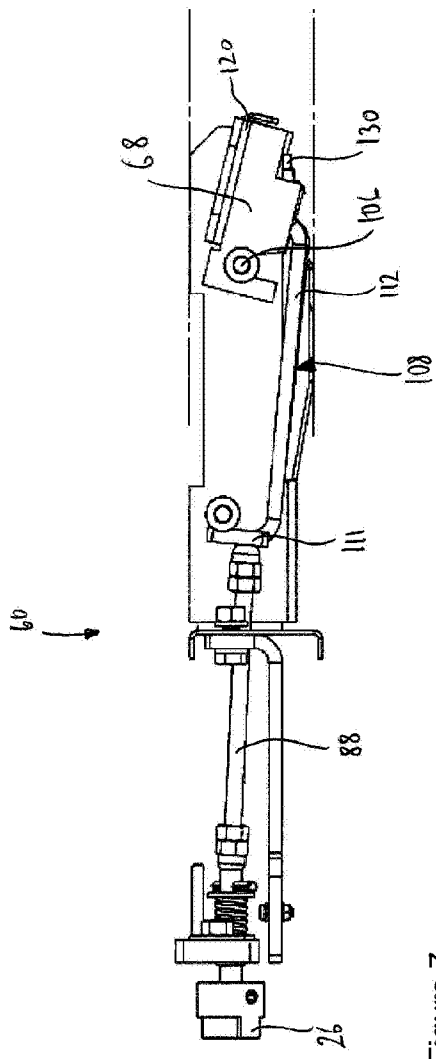


Figure 7

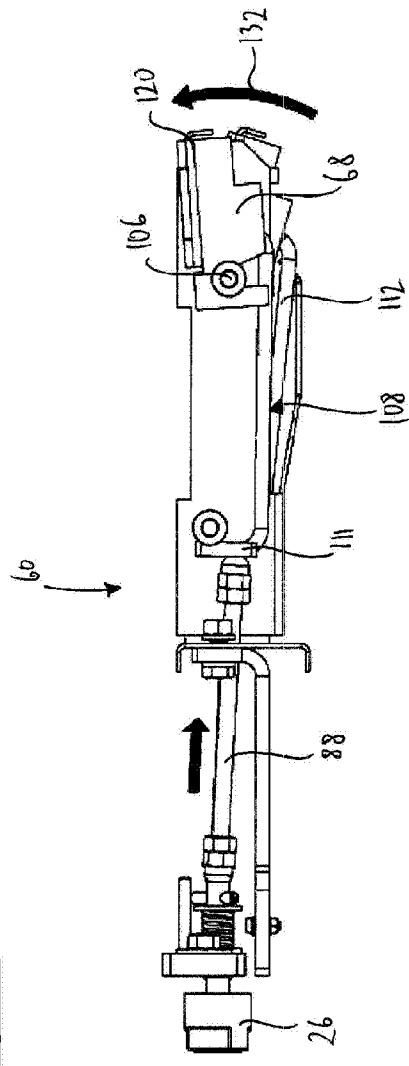


Figure 8

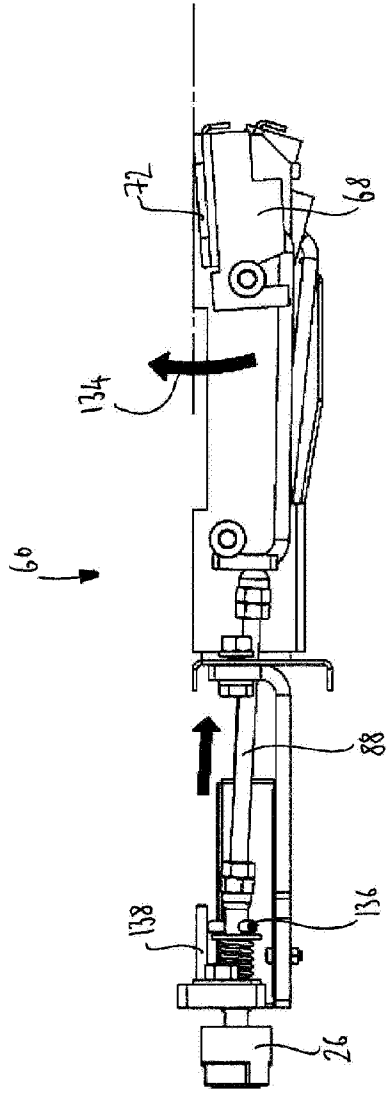


Figure 9

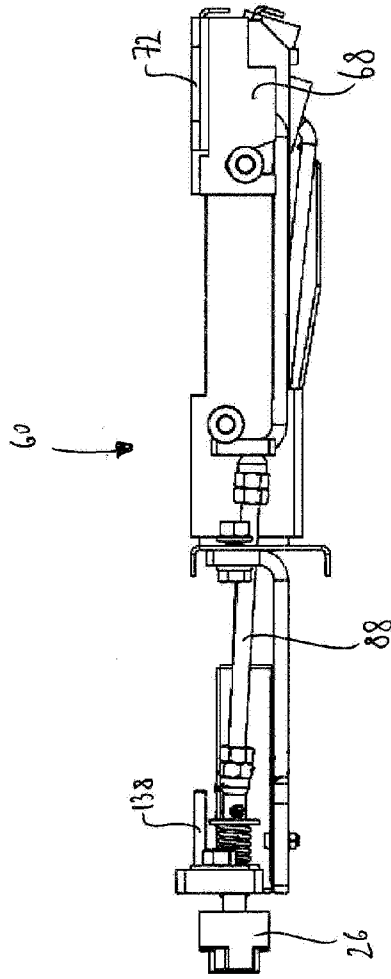


Figure 10