May 28, 1935. B. B. KAHN 2,002,894

STOVE

Filed Nov. 27, 1933

Fig. 1

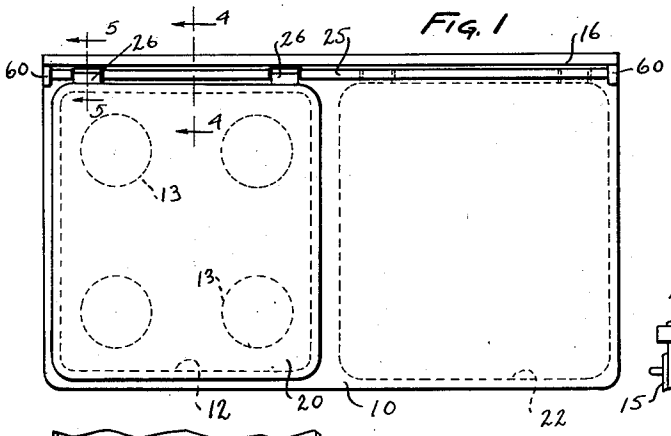


Fig. 2

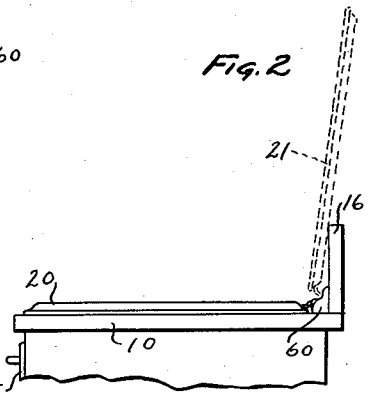
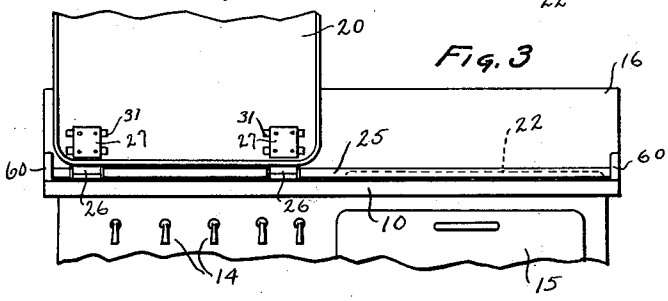


Fig. 3



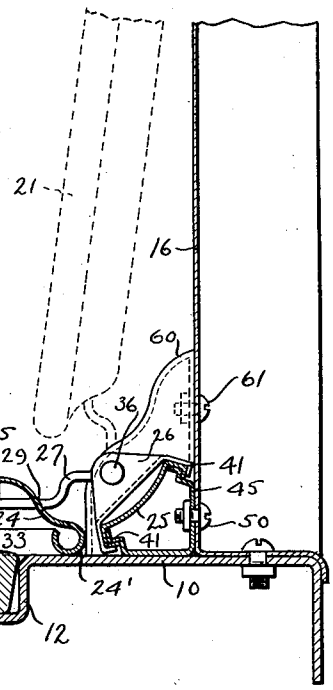


Fig. 4

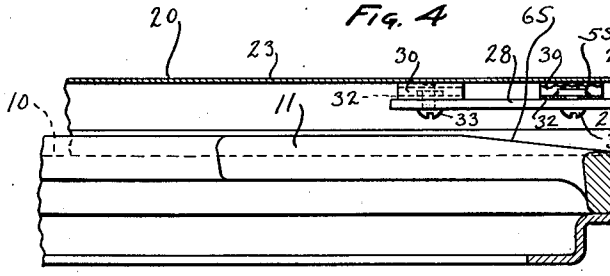


Fig. 5

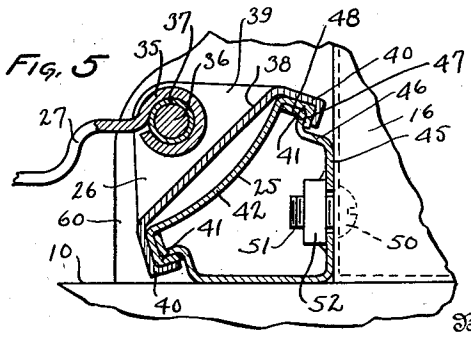
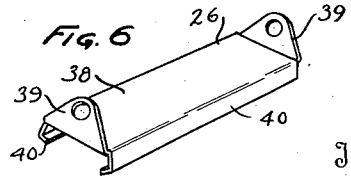


Fig. 6



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STOVE

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Application November 27, 1933, Serial No. 699,819

9 Claims. (Cl. 126—214)

This invention relates to stoves.

One of the principal objects of the invention is the provision in a stove having a cooking top and an area such as an oven top or work space at the side thereof, of a movable cover for the stove top that is arranged to serve selectively as a closure for the cooking top or as a cover for the area adjacent the cooking top.

Another object of the invention is the provision of a stove top cover having attachment to the stove such as to provide for pivotal movement of the cover and also for traversing movement in the direction of the pivot axis.

Another object of the invention is the provision of a stove having a movable top cover, and attaching means therefor affording a pivotal and a traversing movement of the cover; said attaching means comprising a decorative member positioned adjacent the junction of the stove top and a part extending upwardly from the rear thereof, and continuing for substantially the length of said stove parts.

Other objects and advantages of the invention will be apparent from the following description, the accompanying drawing, and the appended claims.

In the drawing,—

Fig. 1 is a plan view of a stove constructed in accordance with this invention;

Fig. 2 is a fragmentary side elevational view of Fig. 1;

Fig. 3 is a fragmentary front elevational view showing the stove cover in an upright or removed position;

Fig. 4 is a fragmentary sectional view taken on the line 4—4 of Fig. 1;

Fig. 5 is an enlarged fragmentary sectional view taken on the line 5—5 of Fig. 1; and

Fig. 6 is a view in perspective of a hinge member shown on a reduced scale.

In the drawing, which discloses a preferred embodiment of the invention, there is illustrated a stove of the type sometimes referred to as a table top stove. As shown, this stove is arranged so the cooking top and the top of the oven adjacent the cooking top are aligned, that is, they lie in a plane. By so arranging the stove there is afforded an area at the side of the cooking top, and at the same height as the cooking top, which may be utilized for the same purposes as a table. As this usable space is conveniently located with respect to the stove cooking top a great deal of the work involved in the preparation of food is done on this table area.

A cover is provided for the stove top so that during times that the stove is out of service the cooking top may be closed over. This cover and its attachment to the stove are of such character that the cover is not only movable to expose the cooking top for use, but in addition it is movable to a position as a cover and protection for the table area which is usually a finished permanent part of the stove. In the latter position it provides protection against damage to the stove top during use of this area as a table, and also provides a work area which is additionally insulated from the heat from the oven beneath.

Although the cover top, when used as a table, is subjected to the same wear and tear and the same danger of damaging as is the oven top of the stove, this cover member is a relatively inexpensive part which can easily be changed if it should become damaged in service. Even though the work area above the oven is effectively insulated against excessive heat loss this surface may reach a temperature during continued use which is objectionable in a table top. The additional insulation afforded by the cover member thus provides a cooler working surface.

Referring now more particularly to the drawing, in which like characters of reference designate like parts throughout the several views thereof, there is shown a stove having a flat top 10 which extends for the full length thereof. The left hand portion is arranged as a cooking top and comprises supporting means for the cooking vessels in the form of a grill 11 which is received within a depression 12 of the stove top. Cooking top burners 13 stand beneath the grill and are shown provided with control valves 14 accessible on the stove front. For convenience in description, that area which is occupied by the grill, and which is defined by the depressed portion 12 of the stove top, will be referred to as the cooking top. The right hand portion of the stove contains an oven which is positioned directly beneath the stove top 10. As shown, this oven is accessible through a door 15. A member 16 extends upwardly from the rear of the stove top 10. This member continues for the full length of the stove top and adds to the finished appearance to the stove.

A cover 20 is provided which may selectively rest in the cooking top or on the area adjacent the cooking top, or may stand in an upright position in which the entire stove top is exposed. As shown the cover is commensurate in size with the cooking top so that when it rests on the stove over the cooking top an effective closure is provided for this part. Being substantially the same

size as the cooking top the cover is therefore considerably less in lateral extent than the full length of the stove. As shown, it extends for approximately half the length of the stove top.

The cover **20** is attached to the stove so that it may be raised to an upright position, as indicated at **21** in Fig. 2, when it is desired to use the cooking top. Also, the attaching means is of such character that the cover may stand upright in any desired position within the length of the stove, and may rest on the stove top above the oven as a cover for that portion of the stove top. When in this latter position, which is indicated in dotted outline at **22**, the exposed face of the cover member may be used as a table top in the same manner that the stove top is so used.

The cover is of such construction that it serves as a heat insulator. As shown, it is formed of sheet metal and has a flat plate like central portion **23** with a bounding rim **24** formed as a downturned flange and terminating in a rolled bead **24'**. The cover is of sufficient depth to provide an air space over the oven top that is adequate to serve as an insulator to prevent the passage of excessive heat from the oven top to the cover.

The cover attachment to the stove is by means of a member **25** that extends for substantially the full length of the stove, and which provides for a sliding movement of the cover. This member is constructed so that it serves also as a decorative part of the stove structure. As shown, the member **25** is positioned adjacent the junction of the stove top **10** and the member **16** which extends upwardly at the rear of the stove top. This member **25** is formed to afford a slidable engagement with hinge members **26** which are in turn pivotally connected to the cover **20** so that the cover may be moved pivotally and may also have a traversing movement.

The hinge connection on the cover **20** comprises hinge plates **27** which are positioned at the lateral extremes of the cover. These plates **27** are attached to the cover on the underside thereof so that when the cover is in the position of use as a closure the plates and the attaching parts are out of sight and a smooth working surface is thus afforded. As shown, the plates **27** have extending ends **28** which pass through the cover **20** at slots **29**. The hinge plate ends **28** are joined to the cover as by being attached to cover brackets **30**. As shown, these have end portions **31** which are welded to the cover, and depressed center portions **32** for the reception of screws **33** that extend through the hinge plates. The exposed ends of the hinge plates **27** are formed with eyes **35** which engage hinge pins **36** that are carried by the hinge members **26**. The spaced plates **27** are arranged so that the eyes **35** stand in axial alignment.

The hinge members **26** are formed of sheet metal and comprise a flat plate portion **38** with upstanding ends **39**. These ends are spaced apart to receive the hinge plates **27** and have aligned openings for reception of the hinge pins **36**. The pins **36** may be in the form of rivets. Free movement at the hinge axis is provided for by the insertion of a sleeve **37** intermediate the hinge eye **35** and its pin **36**.

The sides of the hinge member **26** intermediate the upturned ends **39** are turned downwardly and are formed as indicated at **40** to engage guide ways on the attaching member **25**. As shown, the guideways **41** are arranged at parallel sides of a plate like front portion **42** of the attaching member **25** which is proportioned so that these guideways stand closely adjacent the stove top **10** and the back member **16**. The plate **42** is, in effect, a fillet positioned at the junction of the stove top **10** and the back member **16**. The exposed part of the member **25** substantially encloses its supporting structure so that the supporting part is not visible. To add to the decorative effect of this part the exposed portion may be made of polished metal and, as shown, the plate portion **42** has a concave contour. By so arranging the part **42** a pleasing effect is provided and in addition the contacting engagement between the member **25** the hinge members **26** is limited to the interengaging ways of these parts.

Although the attaching member **25** may be of any desired form and configuration it is shown as being constructed of sheet metal and is made up of two parts which when assembled are of tubular formation. The supporting part **45** is formed as a right angle having surface contact with the stove back **16** and the top **10**. The sides of the part **45** are bent inwardly as indicated at **46**, then outwardly at **47**, and again inwardly at **48**. These end portions are received within the similarly shaped guideways **41** of the exposed plate **42**. The assembled member **25** may be readily connected to the stove structure as by means of screws **50** which extend through the back member **16** into threaded engagement with the member **25** as indicated at **51**. This threaded engagement may be accomplished as by welding nuts **52** in the member **45** prior to assembly and in alignment with the openings **53** at the attaching positions. This same method of assembly may be used in the cover brackets **30** as is indicated at **55**.

End pieces **60** are provided at each side of the stove to serve as decorative ends for the attaching member **25**, and to serve also as a means of limiting the travel of the hinge members **26**. As shown, these pieces **60** are held in place by provision of screws **61**. If desired, the pieces **60** may be arranged with openings corresponding to the contour of the attaching member **25** so that in assembly the end pieces may telescope the ends of the attaching member.

The cover may be easily assembled to the stove by first attaching to the cover the hinge plates **27** and connected hinge members **26**. The members **26** are then engaged with the member **25** by a lateral movement of the cover. If desired, the procedure may be reversed by first assembling the hinge members **26** to the member **25** and then attaching the cover **20** to the hinge plates **27**. Upon assembling the cover to the stove the end pieces **60** are attached so that the lateral movement of the cover is then limited and the cover may not be unintentionally moved beyond its normal range of travel.

The relationship of the stove parts and the hinge axis **36** is such that when the cover is lifted to a substantially upright position it will rest against the upper part of the back member **16** in a position sufficiently beyond the vertical that it will be held in place by the force of gravity. When the cover is to be moved from the closure position over the cooking top to the position as a cover over the work space, or in the reverse direction, it is first lifted upwardly to clear the cooking top grill which preferably extends above the stove top surface an amount sufficient to permit cooking utensils to be moved about on it without rubbing on the stove top. As shown, the rearward part of the grill top is

elevated at a gradual slope, as indicated at **65**, so that the cover will clear this part without being lifted to a steep angular position.

The cover is quite light in weight and is readily movable. If desired, a knob or handle may be provided for lifting the cover. This is not necessary as the cover bead **24'** is formed sufficiently large that the cover may easily be raised by lifting from beneath the bead. By not using a handle a smooth and unobstructed working surface is afforded.

While the form of apparatus herein described constitutes a preferred embodiment of the invention, it is to be understood that the invention is not limited to this precise form of apparatus, and that changes may be made therein without departing from the scope of the invention which is defined in the appended claims.

What is claimed is:

1. In a stove comprising a cooking top and an oven at the side thereof having a top surface extending in continuation of the cooking top, a cover of a size commensurate with the area of the cooking top, means attaching the cover to the stove comprising a member fixed to the stove and extending for substantially the length of the stove top adjacent the rear thereof, and hinge means pivotally and slidably connecting the cover to said member for swinging movement on an axis parallel to and for sliding movement in the direction of the member for selective positioning of the cover with respect to the stove top as a closure for the cooking top or as a cover on the stove top area over the oven and adjacent the cooking top.

2. In a stove comprising a cooking top and an oven at the side thereof having a top surface extending in continuation of the cooking top, a sheet metal cover having a flat face and a downwardly extending peripheral portion adapted for engagement with the stove top, and means pivotally and slidably attaching the cover to the stove for selective movement of the cover to a position as a closure for the cooking top or as a cover on the oven top area adjacent the cooking top wherein the flat cover face is always uppermost.

3. In a stove comprising an adjacently related cooking top and an oven having a common top surface, a member extending upwardly at the rear of the stove top for substantially the length of the stove top, a cover of a size to conceal the cooking top, means attaching the cover to the stove comprising a member fixed to the stove top in front of the upwardly extending member and continuing for substantially the length of the stove top, hinge means pivotally and slidably connecting the cover to the member that is fixed to the stove for selective movement of the cover to a position as a closure for the cooking top or as a cover on the stove top area adjacent the cooking top, said upwardly extending member supporting the cover in a raised position at any point in the cover travel along the member fixed to the stove wherein both the cooking top and the area at the side thereof are exposed.

4. In a stove comprising a cooking top and a surface area extending at the side of the cooking top, a cover of a size commensurate with the area of the cooking top, and means attaching the cover to the stove for selective movement to a position as a closure for the cooking top or as a cover on the stove top area adjacent the cooking top, said attaching means comprising a member fixed to the stove and extending for substantially the length of the stove, said fixed member having a guideway thereon, a hinge member on the cover, and a member having a pivotal attachment to the hinge member and a sliding attachment to the said guideway to afford a pivotal and a traversing movement of the cover member.

5. In a stove comprising a cooking top and a surface area extending at the side of the cooking top, a cover of a size commensurate with the area of the cooking top, and means attaching the cover to the stove for selective movement to a position as a closure for the cooking top or as a cover on the stove top area adjacent the cooking top, said attaching means comprising a member fixed to the stove and extending for substantially the length of the stove, said fixed member having a guideway thereon, hinge members laterally spaced on the cover and having aligned hinge eyes, and members separately connecting the hinge members to the fixed member, said connecting members each having a hinge pin for attachment to the hinge eyes and having means slidably engaging the said guideway for pivotal and traversing movement of the cover on the stove.

6. A stove having a substantially flat top, a cover for said stove top, said cover being substantially shorter than the top length, cover attaching means affording a permanent attachment of the cover to the stove and comprising a member extending lengthwise of the stove top for substantially the stove length adjacent the rear thereof, and means adjacent opposite ends of one side edge of the cover connecting the cover to said member for pivotal movement of the cover on an axis extending in the direction of the member and for a traversing movement in the direction of the member whereby selected portions of the stove top may be exposed at the side of the covered part.

7. A stove having a substantially flat top and a member extending upwardly from the rear thereof, cover attaching means comprising a member extending lengthwise of the stove top for substantially the length of the stove top adjacent the junction of the top and the upwardly extending member and forming a decorative fillet between the stove top and the upwardly extending member, said attaching member having a guideway thereon, a cover for the stove top substantially shorter than the stove top length, and hinge means pivotally connected to the cover and slidably engaging the guideway of the attaching member for selective positioning of the cover on the stove top.

8. A stove having a substantially flat top and a member extending upwardly from the rear thereof, cover attaching means comprising a member positioned at the junction of the stove top and the upwardly extending member and formed as a fillet at said junction, inturned portions on opposite faces of said attaching member, a cover for a portion of the stove top, a hinge member pivotally connected to said cover, said hinge member having inturned portions extending in the direction of the hinge axis for sliding engagement with the inturned portions of the attaching member whereby the cover and hinge member may slide with respect to the attaching member for substantially the length of the stove.

9. A stove having a substantially flat top and a member extending upwardly from the rear thereof, cover attaching means positioned at the junction of the stove top and the upwardly extending member, said cover attaching means comprising a

sheet metal plate having parallel side edges formed as hinge carrying ways, supporting means for the plate attached to the underside thereof for supporting the plate to stand as a fillet of which the side edges terminate closely adjacent the stove top and the upwardly extending member whereby the plate serves as a decorative part of the stove structure and conceals the plate supporting means from view, a hinge member pivotally connected to the cover, and means on the hinge member slidably engaging the parallel side edges of the plate for guidance of the cover during pivotal movement and traversing movement lengthwise of the stove.

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