

Feb. 20, 1934.

B. B. KAHN

1,947,554

STOVE

Filed Aug. 5, 1931

2 Sheets-Sheet 1

Fig.1

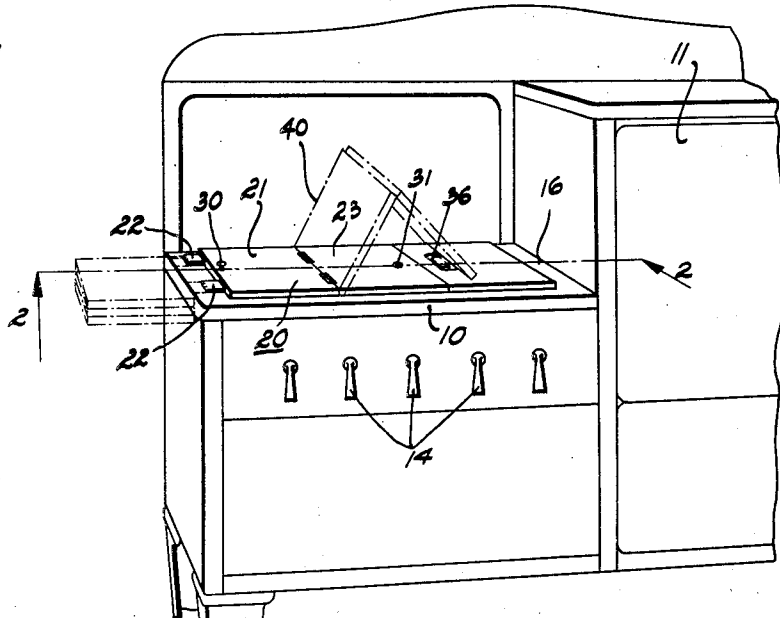


Fig. 2

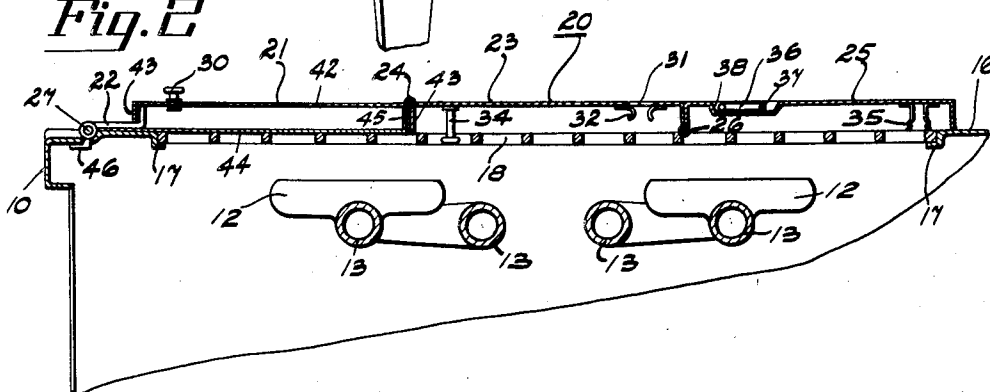
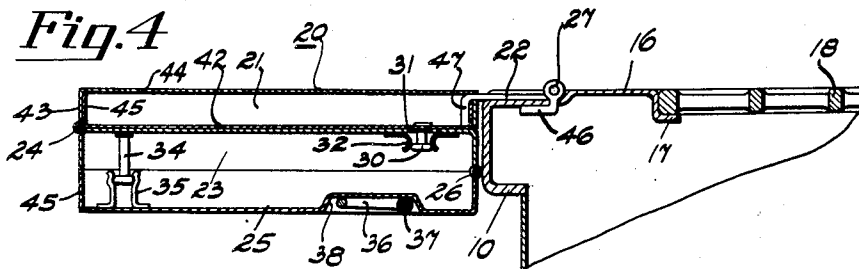


Fig.4



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B. B. KAHN

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2 Sheets-Sheet 2

Fig. 3

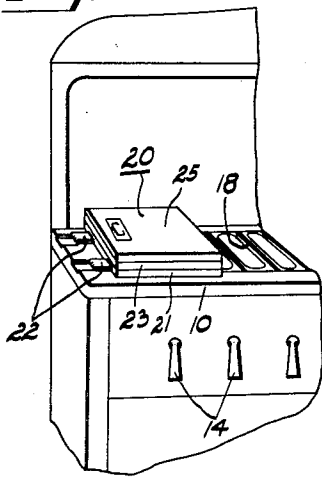


Fig. 5

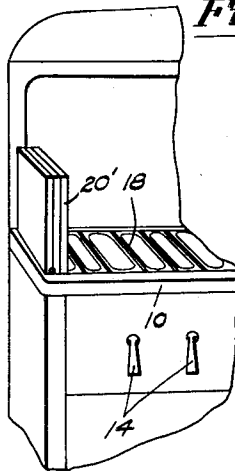


Fig. 6

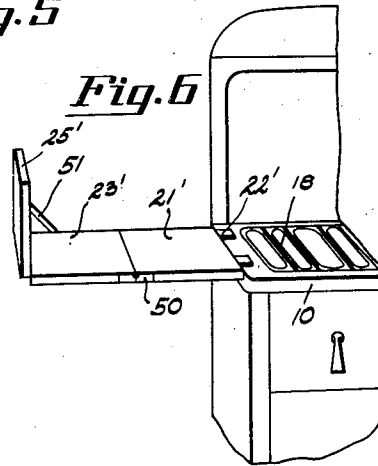


Fig. 7

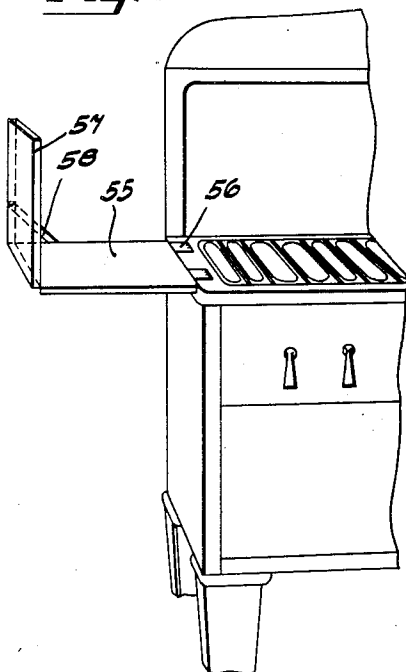
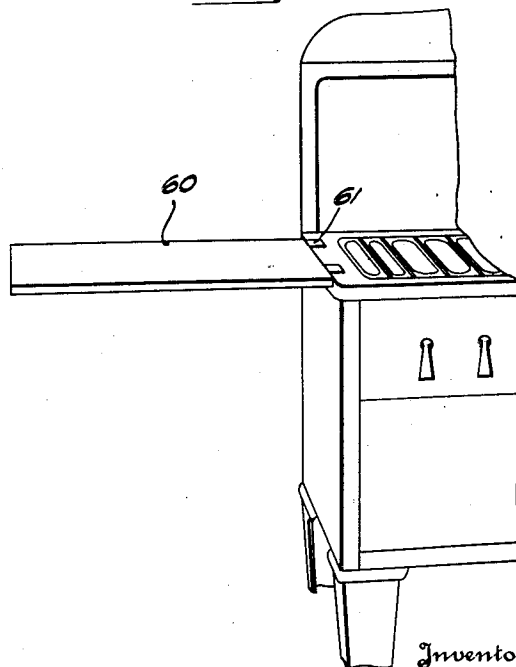


Fig. 8



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UNITED STATES PATENT OFFICE

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STOVE

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Application August 5, 1931. Serial No. 555,201

10 Claims. (Cl. 126—214)

This invention relates to stoves.

One of the principal objects of the invention is the provision in a stove of a readily movable plate structure of simple construction serviceable as a cover closure for the cooking top of the stove and movable therefrom to a position in which the plate structure adds to the utility of the stove.

Another object of the invention is the provision of a plate structure having a hinge connection to a stove for service as a closure for the stove cooking top, and movable therefrom to a position in which the plate structure stands as an extension from the stove cooking top.

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

In the drawings, which illustrate preferred embodiments of the invention—

Fig. 1 is a fragmentary view in perspective of a stove having a closure plate structure constructed in accordance with the present invention;

Fig. 2 is a vertical sectional view taken on the line 2—2 of Fig. 1;

Fig. 3 is a fragmentary view in perspective showing the closure plate structure in a collapsed position;

Fig. 4 is a sectional view taken on a plane similar to Fig. 2, and shows the closure plate structure in its outwardly extending position;

Fig. 5 is a fragmentary view in perspective showing a somewhat different arrangement of closure plate structure; and

Figs. 6, 7 and 8 illustrate other forms of the closure plate structure.

The drawings, in which like characters of reference designate like parts throughout the several views thereof, illustrate a cooking stove which incorporates a cooking top 10 and an oven structure 11. The cooking top is provided with one or more burners such as shown at 12 having supply pipes 13 for the passage of fuel in controlled amounts regulated by manipulation of the valve controls 14. The cooking top is defined by a rim or frame 16 which is shown formed at 17 to receive and support a grill 18 which serves as a support for cooking vessels placed thereon above the burners 12. The frame 16 may be built up of sheet metal, or may be constructed of other suitable material formed to provide adequate support for the grill 18.

A closure plate structure is pivotally attached to the stove so that during periods that the stove

is out of service the closure plate structure may be moved to a position overlying the cooking top to thereby add to the neatness and the attractive appearance of the stove by covering the grill 18 and burners 12. The closure plate structure is shown attached to the stove by means of a connecting hinge, and is movable from its position as a closure, to a position in which the plate structure serves to add to the utility of the stove.

As shown particularly in Figs. 1 to 4, the closure plate structure, indicated generally by the numeral 20, comprises three sections of like shape which, when in position enclosing the cooking top, lie side by side. The sections are joined so that when it is desired to move the closure plate structure the sections may be moved to a collapsed position in which they overlie one another, and may then be moved as a unit. The exposed side of the section 21 is shown as having a hinge attachment 22 to the stove frame 16. The sectional member 23 of the closure plate structure is connected to the section 21 by provision of the hinges 24, while the sectional member 25 is connected to the section 23 by provision of the hinges 26. The hinge points 24 and 26 are positioned so that when the sectional members are moved to a collapsed position as shown in Fig. 3, the sections will then overlie one another as shown.

In the collapsed position of Fig. 3, the plate structure may be moved about the axis 27 of the hinge 22 to a position at the side of the stove such as shown in Fig. 4 in which the closure plate structure serves as a shelf continuation of the cooking top. The parts comprising the plate structure are preferably so proportioned that when the collapsed structure is moved to the extended position of Fig. 4 the top surface of the plate structure will lie substantially flush with the surface of the cooking top comprising the frame member 16 and the grill 18.

In order to suspend the plate structure in the position of Fig. 4 the sectional members are provided with latch members which are positioned in interfitting relationship on adjacent sections for engagement upon collapsing the sections. The section 21 has attached to it a button 30 which, upon movement of the section 23 to collapsed position, is received within an opening 31 of section 23 for engagement by the spring fingers 32. Section 23 carries a button 34 which is received between the spring fingers 35 of the adjacently positioned section 25. The sectional member 25 is provided with a lifting

handle 36 which is pivotally attached at 37. The handle 36 is shown positioned in a recess 38 formed in the top surface of the member 25 so that the handle will lie flush with the surface of the plate structure. When it is desired to remove the plate structure from its position as a closure for the cooking top, the operator grasps the handle 36 and lifts upwardly, whereupon the sections 23 and 25, moving about the hinge points 24 and 26, swing through the position indicated by the dotted outline 40 of Fig. 1 to the collapsed form as shown in Fig. 3 in which position the latch members are interengaged so that the collapsed plate structure may then be moved about the pivot point 27 to the position shown in Fig. 4.

The sectional members are preferably formed of sheet metal and as shown each comprises a flat face 42 bounded by a downturned flange 43. As the underside of the sectional member 21 is exposed when the collapsed plate structure is moved to the extended position at the side of the stove, an additional sheet metal member is secured to this section which comprises a flat face 44 shown as having an upturned flange rim 45 which is received within the flange 43 of the other portion of that sectional member. The flange 45 is proportioned of such depth that the face 44 will lie flush with the terminal edge of the flange 43 so that the underside of the sectional member 21 when exposed will present a flat surface. If desired the sectional member 21 may be formed with the flanged members reversed in their proportions so that the flange 45 will then overlie the flange 43 and the top and flange sides of the exposed underside of the sectional member 21 will be visible as a continuous and unbroken piece.

The hinge 22 is suitably anchored within the frame 16 as indicated at 46, and is also attached to the plate structure as indicated at 47, so that when the plate structure is removed from the cooking top to serve as a shelf extension as shown, the construction will incorporate sufficient stiffness and rigidity to permit the shelf extension to serve the same useful purpose that an integrally formed permanent shelf would provide.

In Fig. 5 an arrangement of closure plate structure is shown having a hinge connection to the stove frame which permits movement of the collapsed plate structure 20' from the position of closure to a position at the side of the cooking top in which the sectional members stand vertically to serve as a retaining wall or "splash-er" for the cooking top. Such an arrangement of parts is of service where the stove is positioned with the cooking top end of the stove closely adjacent an obstruction such as a side wall of the room thus preventing the use of a shelf extension. By moving the closure plate structure to the position as shown in Fig. 5, the collapsed plate structure then serves as a baffle wall or "splasher" for the protection of the room wall or other adjacently positioned objects from being splashed by food in preparation on the stove.

Fig. 6 shows an arrangement of closure plate structure which may be extended at the stove side to provide a shelf of considerable service area which is bounded by an up-turned end wall or "splasher". The closure plate may be of three sections, one or two of which may extend vertically to provide a splash surface while the other or others extend horizontally, forming a shelf. As shown, the plate section 21' is pro-

vided with a hinge connection 22' to the stove frame similar in construction to the hinge connection shown in Fig. 1, and is interconnected with the sectional member 23' by provision of a suitable hinge and a bracket 50 which permits the sectional member 23' to stand in continuation of the section 21'. The sectional member 25' is pivotally connected to the member 23' and is provided with an interconnecting bracket 51 which permits the section 25' to stand vertically with respect to the sections 21' and 23'.

In the arrangement of parts shown in Fig. 7 the closure plate structure is formed of two parts so related that the member 55, having a hinge connection 56 with the stove frame, may stand in extended position as a shelf continuation of the cooking top, and the member 57, through provision of a suitable bracket 58, will stand vertically as a retaining wall at the outer end of the shelf portion 55. Upon releasing the bracket 58 the sections 55 and 57 may be extended to overlie the cooking top for closure thereof.

The arrangement of the closure portions as shown in Figs. 6 and 7, and which include a vertically extending end wall, are suitable for use in restricted areas where there is not sufficient space to permit the entire closure plate to be swung to an extended position at the stove side in which its entire length may be made use of as a shelf extension such as is shown in Fig. 8. In Fig. 8 a one piece closure 60 is provided which is pivotally movable upon the hinge 61 to swing from a position serving as a closure for the cooking top, to a position at the stove side where the member 60 stands vertically and serves as a splash plate, or horizontally, as shown, to serve as an extending shelf adjacent the cooking top.

While the forms of apparatus herein described constitute preferred embodiments 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 having a cooking top, a movable closure for said cooking top comprising a collapsible plate structure comprising interconnected sections adapted to lie in extended assembly as a cooking top cover, and means for pivotally connecting said plate structure to the stove comprising a hinge for positioning the plate structure over the cooking top for service as a closure therefor, and for supporting the plate structure as a shelf extension having a width less than the lateral extent of the plate structure as a closure.

2. In a stove having a cooking top, a movable closure for said cooking top comprising a collapsible plate structure pivotally connected along one edge thereof to the stove and movable from a position in which the plate structure overlies the cooking top in extended end to end assembly as a closure therefor to a collapsed position at the stove side as a shelf extension, said plate structure comprising a plurality of sections, and means pivotally connecting adjacent sections upon axes parallel to the pivotal connection to the plate structure of the stove and parallel to a side of the stove.

3. In a stove having a cooking top, a movable closure for said cooking top comprising a plate structure pivotally connected along a side edge thereof to the stove and movable from a position in which the plate structure overlies the cook-

ing top in extended end to end assembly as a closure therefor, to a position removed from the cooking top, said plate structure comprising a plurality of interconnected sections of like shape receivable upon one another in collapsed form.

4. In a stove having a cooking top, a movable closure for said cooking top comprising a plate structure pivotally connected along one edge thereof to the stove and movable from an extended position in which the plate structure overlies the cooking top as a closure therefor, to a collapsed position removed from the cooking top, said plate structure comprising a plurality of interconnected sections of like shape receivable upon one another in collapsed form, and means on said sections for holding said sections in latched engagement in such collapsed form as a unit in positions other than the position of closure.

5. In a stove having a cooking top, a movable closure for said cooking top comprising a plate structure pivotally connected along one edge thereof to the stove and movable from an extended position in which the plate structure overlies the cooking top as a closure therefor, to a collapsed position removed from the cooking top, said plate structure comprising a plurality of interconnected sections of like shape receivable upon one another in collapsed form, and means on said sections for holding said sections assembled in such collapsed form, said means comprising latch members positioned in interfitting relationship upon adjacent sections and interengageable upon collapsing the sections.

6. In a stove having a cooking top, a closure member for said cooking top comprising a plate structure of sheet metal sections, each of said sections comprising a flat face having a perpendicularly extending bounding flange, one of said sections having a reverse face paralleling the flat face at the terminal edge of the bounding flange, hinge means connecting said sections for collapsing upon one another with a flat face and the said reverse face exposed on the exterior of the collapsed structure, and means pivotally attaching one of said sections to the stove for the support of said plate structure in a position removed from the cooking top.

7. In a stove having a cooking top, a closure member for said cooking top comprising a plate structure of sheet metal sections, each of said sections comprising a flat face having a perpen-

dicularly extending bounding flange, one of said sections having a reverse face paralleling the flat face at the terminal edge of the bounding flange, hinge means connecting said sections for collapsing upon one another with a flat face and the said reverse face exposed on the exterior of the collapsed structure, and means pivotally attaching one of said sections to the stove for the support of said plate structure adjacent the stove with the reverse face positioned as a shelf continuation of the cooking top.

8. In a stove having a cooking top, a removable closure therefor comprising a sectional plate structure of adjacently related plates and adapted when positioned side by side to overlie the cooking top, hinge means interconnecting adjacent sides of the sectional plates for collapsing the plate structure to a position in which the sections overlie one another, and means pivotally connecting an exposed side of the plate structure to the stove for movement of the plate structure from the cooking top to a position at the side of the cooking top.

9. In a stove having a cooking top, a movable closure therefor comprising a sectional plate structure of adjacently related plates and adapted when positioned side by side to overlie the cooking top, hinge means interconnecting adjacent sides of the sectional plates for collapsing the plate structure to a position in which the sections overlie one another, and means pivotally connecting an exposed side of the plate structure to the stove for movement of the plate structure from the cooking top to a position in which the plate structure stands extended from the cooking top as a shelf continuation thereof.

10. In a stove having a cooking top, a movable closure therefor comprising a sectional plate structure of adjacently related plates positioned side by side, hinge means interconnecting adjacent sides of the sectional plates for collapsing the plate structure to a position in which the sections overlie one another, and means pivotally connecting an exposed side of the plate structure to the stove for movement of the plate structure from the cooking top to a position in which the plate structure stands extended from the cooking top as a shelf continuation thereof, one of said sections standing vertically as a retaining wall defining the lateral extent of the shelf continuation.

BERTRAND B. KAHN.

CERTIFICATE OF CORRECTION.

Patent No. 1,947,554.

February 20, 1934.

BERTRAND B. KAHN.

It is hereby certified that error appears in the printed specification of the above numbered patent requiring correction as follows: Page 2, line 143, claim 2, for "to" second occurrence read of; and line 144, for "of" read to; and that the said Letters Patent should be read with these corrections therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 20th day of March, A. D. 1934.

F. M. Hopkins

(Seal)

Acting Commissioner of Patents.