Nov. 5, 1929. C. HERWIG, JR., ET AL 1,734,674

RANGE CONSTRUCTION

Filed Dec. 12, 1928 2 Sheets-Sheet 1

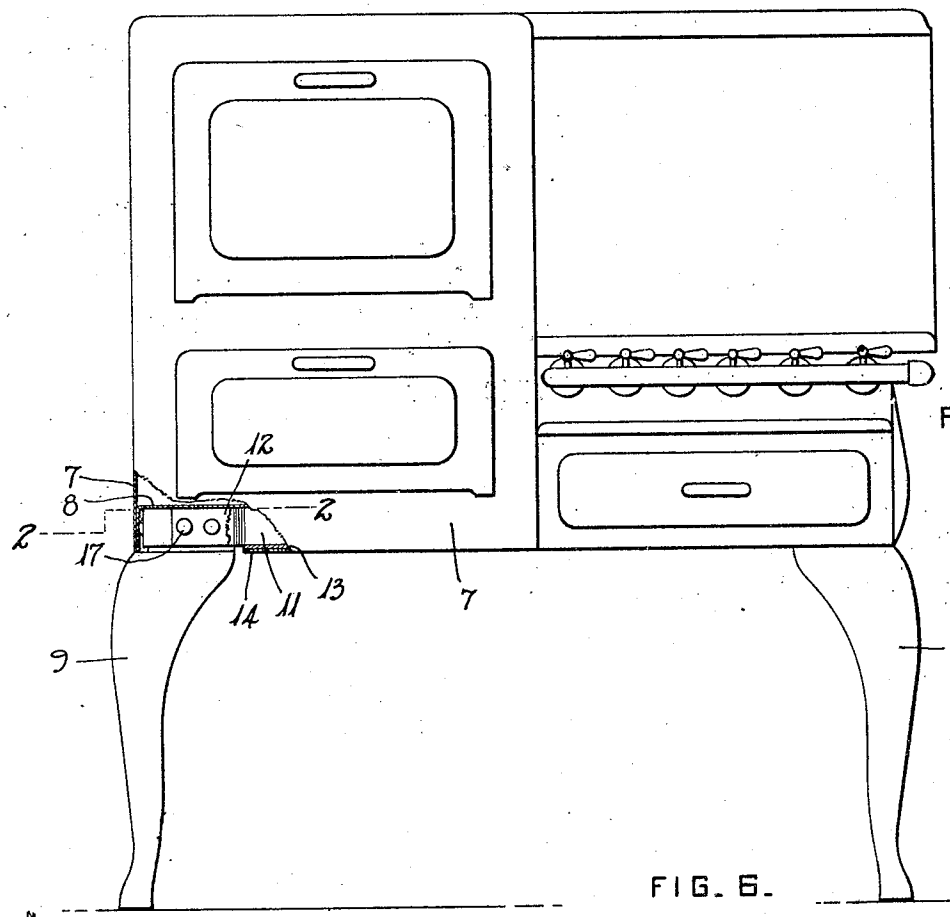
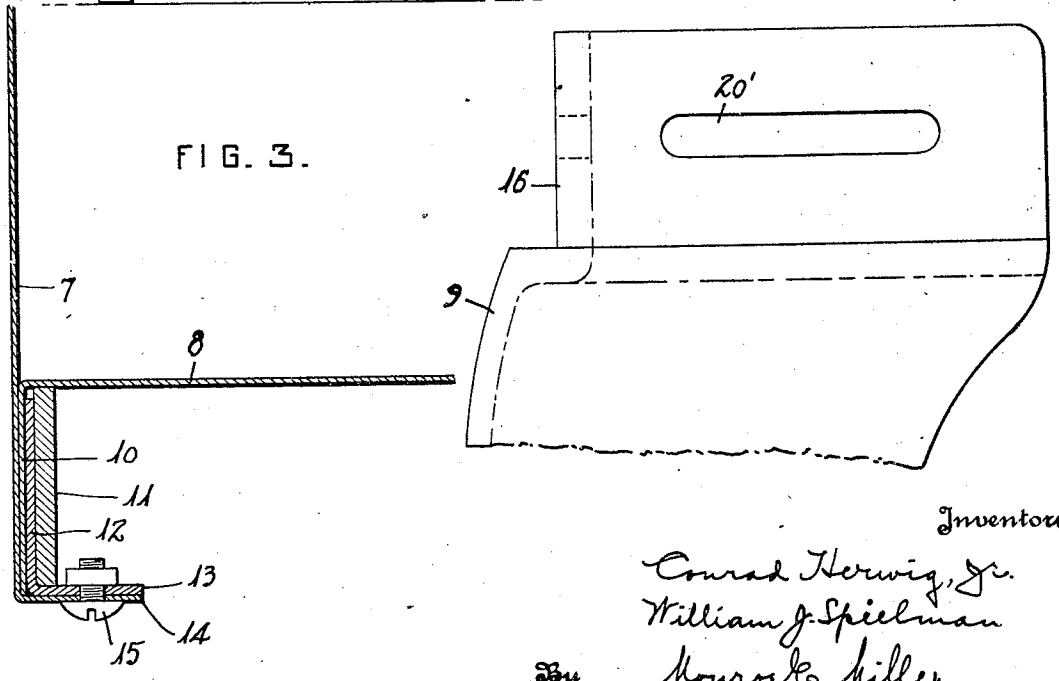


FIG. 1.

FIG. 6.

FIG. 3.



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FIG. 2.

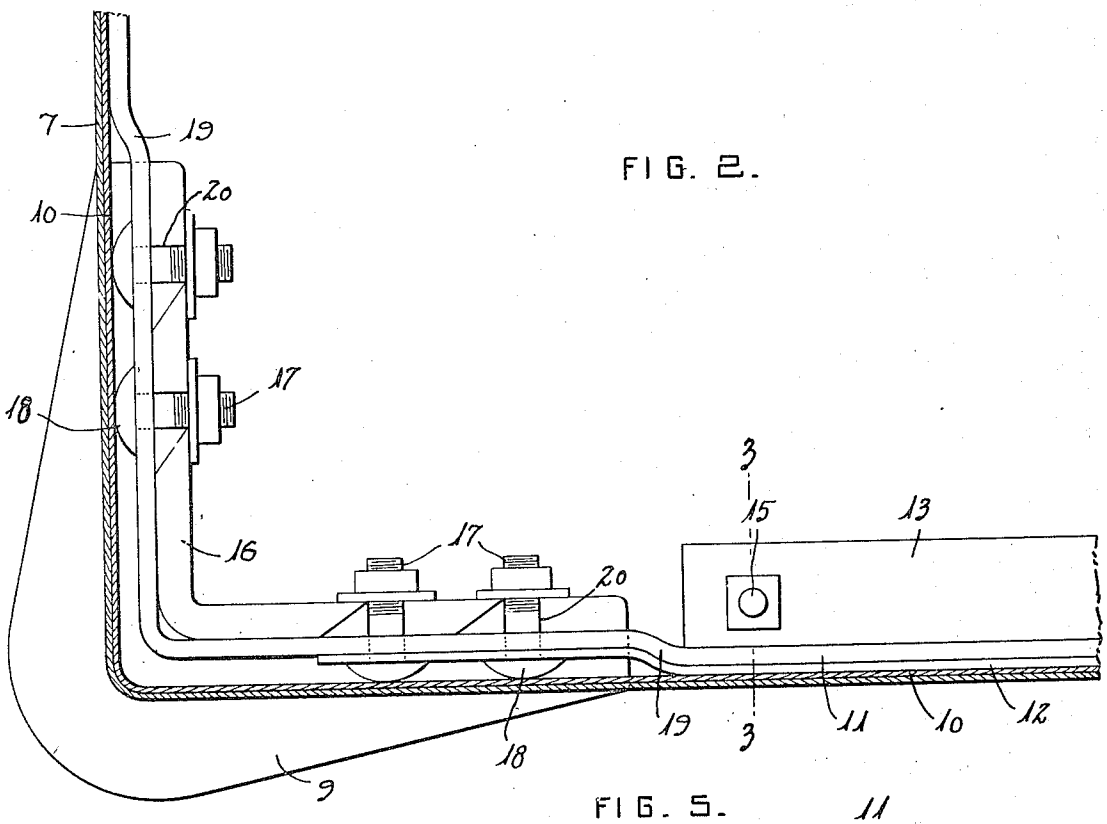
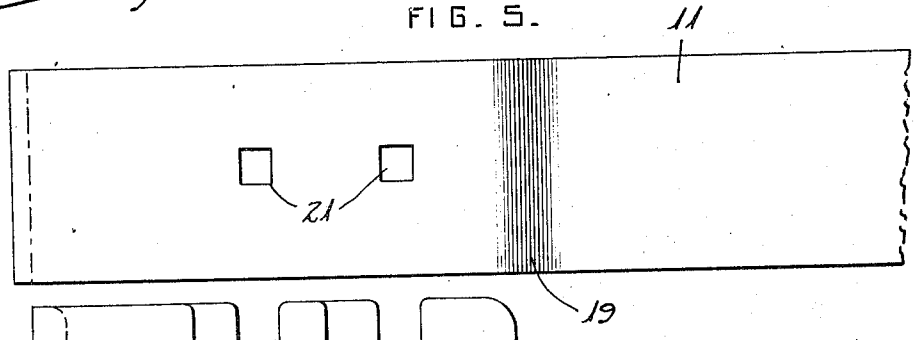


FIG. 5.



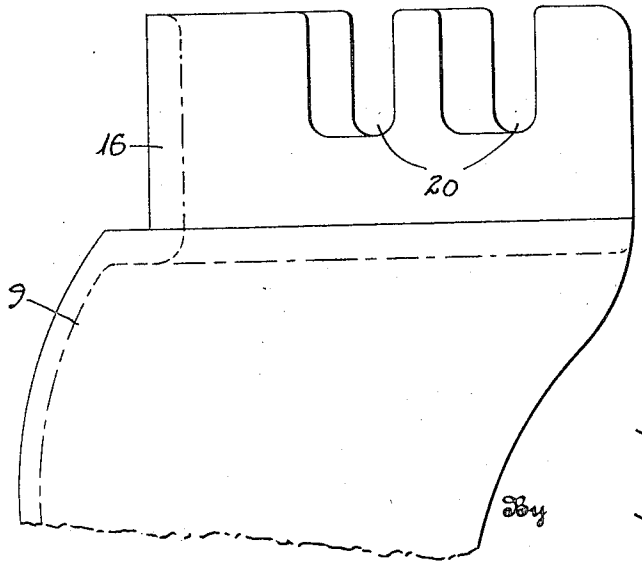


FIG. 4.

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UNITED STATES PATENT OFFICE

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RANGE CONSTRUCTION

Application filed December 12, 1928. Serial No. 325,514.

The present invention relates to cooking stove or range constructions, particularly of the table range type, and aims to provide an assembly of the walls and bottom of the body and the legs in such a manner as to conceal the bolts or other securing elements, to simplify the construction in attaching the legs to the body, and to increase the rigidity of the construction.

The concealment of the bolts will leave the exposed outer surface smooth, so that the stove has a neater appearance and may be more readily cleaned than when the bolts or other securing elements are exposed as in ranges heretofore in use.

With the foregoing and other objects in view, which will be apparent as the description proceeds, the invention resides in the construction and arrangement of parts, as hereinafter described and claimed, it being understood that changes can be made within the scope of what is claimed, without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawings, wherein—

Figure 1 is a front view of a cooking stove or range embodying the improvements, portions being broken away and shown in section.

Fig. 2 is an enlarged horizontal section taken on the line 2—2 of Fig. 1.

Fig. 3 is a vertical section on the line 3—3 of Fig. 2.

Fig. 4 is an elevation of the upper end portion of one of the legs.

Fig. 5 is an elevation of one corner portion of the base band.

Fig. 6 is an elevation of the upper end portion of a leg showing a modification.

The body of the stove or range has the sheet metal walls 7 and a sheet metal bottom 8, with which the legs 9 are assembled. The bottom 8 has a depending marginal flange 10 bearing against the inner surfaces of the walls 7 along the lower edges thereof.

In carrying out the invention, a base band 11, formed from a bar of suitable metal, is disposed below the bottom 8 at the inner surface of the flange 10 and serves to stiffen and strengthen the base portion of the range body.

A sheet metal strip 12 is disposed between the front portions of the flange 10 and band 11, and has a rearwardly extending flange 13 extending across the lower edge of the band 11. The front wall 7 has a similarly extending flange 14 at its lower edge extending below the flange 13 and secured thereto by bolts 15 or other securing elements.

Said bolts being disposed below the inturned flanges 13 and 14 will not be exposed to view. The strip 12 and flanges 13 and 14 may be used at the sides or ends and back of the range body, if desired, but are more especially intended for the front of the range. At the back, and also at the sides or ends, if desired, the securing bolts or elements may pass directly through the band 11, flange 10 and walls 7.

The legs 9, which are usually of cast iron, have upstanding angular flanges 16 at their upper ends which are fitted within the corner portions of the band 11, and bolts 17 clamp said flanges 16 to the band. Carriage bolts are preferably used and have square portions on their shanks to fit in the square apertures 21 of the band 11, to prevent the bolts from turning when the nuts are tightened thereon. The bolts have rounded heads 18, or other suitable heads, disposed between the band 11 and flange 10, and in order to provide a clearance between them to accommodate said bolt heads, the band 11 has offsets 19 beyond the flanges 16 of the legs, in order that the corner portions of the band are offset inwardly, as seen in Fig. 2.

The bolts 17 as well as the bolts 15 are concealed from view, thereby making the base portion of the range body neater in appearance than when the bolts are visible, and the stove is also more readily cleaned because the exposed surface thereof adjacent to the bolts is perfectly smooth.

The flanges 16 have upwardly opening vertical slots 20 to receive the bolts 17, so that when the bolts are loosened the legs may be readily slipped into and out of engagement with the band 11 and bolts 17, thereby providing for convenient assembly and separation of the legs and body.

The terminals of the strip 12 project be-

yond the flange 13 and are clamped between the bolt heads 18 and the band 19, thereby securing the strip to the band 11 and legs 16, so that the base structure is rigid.

The strip or angle member 12 may be riveted, welded, or otherwise secured to the band 11, and in that event need not be engaged by the bolts 12 as shown.

As shown in Fig. 6, the flange 16 of the leg 9 may have horizontal slots 20′ to receive the bolts 17, although the slots 20 are preferable in that they do not require the removal of the nuts from the bolts to apply and detach the leg.

The bolts 17 may be secured to the band 11 or prevented from turning by any suitable means, and the bolts may be welded or permanently attached to the band.

With the slots 20′ the nuts and washers must be removed from the bolts 17, and said slots are sufficiently long to permit the legs to be moved horizontally into position within the corner portions of the band. However, by using the slots 20 the nuts need not be removed from the bolts and the legs are assembled with the band and bolts 17 by a vertical motion.

Having thus described the invention, what is claimed as new is:—

1. A range comprising a body, a base band within the lower portion of the body, said body having a wall provided with a lower inturned flange extending under said band, and means securing said flange and band together.

2. A range comprising a body, a base band within the lower portion of said body, an inwardly extending flange rigid with said band, said body having a wall provided with a lower inturned flange extending below and secured to the aforesaid flange.

3. A range comprising a body, a base band within the lower portion of said body, an angle strip secured to said band and having an inwardly extending flange, said body having a wall provided with a lower inturned flange extending below and secured to the aforesaid flange.

4. A range comprising a body having a wall and a bottom with a downturned marginal flange bearing against the lower portion of said wall, a base band below said bottom adjacent to said flange, and a strip secured to said band and flange and having an inturned flange extending below said band, said wall having an inturned flange below and secured to the second named flange.

5. A range comprising a body, a base band within the lower portion of said body, legs engaging said band, and securing elements between and connecting said band and the body and legs and being concealed.

6. A range comprising a body, a base band secured within the lower portion thereof, legs fitting said band, and securing elements fastening said legs to the band and concealed behind the walls of the body.

7. A range comprising a body, a base band secured within the lower portion thereof, legs fitting said band, and securing elements securing said legs and band together, said band being offset inwardly adjacent to the legs to accommodate portions of the securing elements between the band and walls of the body.

8. A range comprising a body, a base band secured within the lower portion thereof and having inwardly offset corner portions, legs having angular portions fitted in said corner portions of the band, and securing elements fastening said portions together and having heads located between said band and walls of the body.

9. A range comprising a body, a base band secured within the lower portion of the body, legs having portions fitting said band, and bolts carried by the band, said legs having slots to receive said bolts.

In testimony whereof we hereunto affix our signatures.

CONRAD HERWIG, JR.
W. J. SPIELMAN.