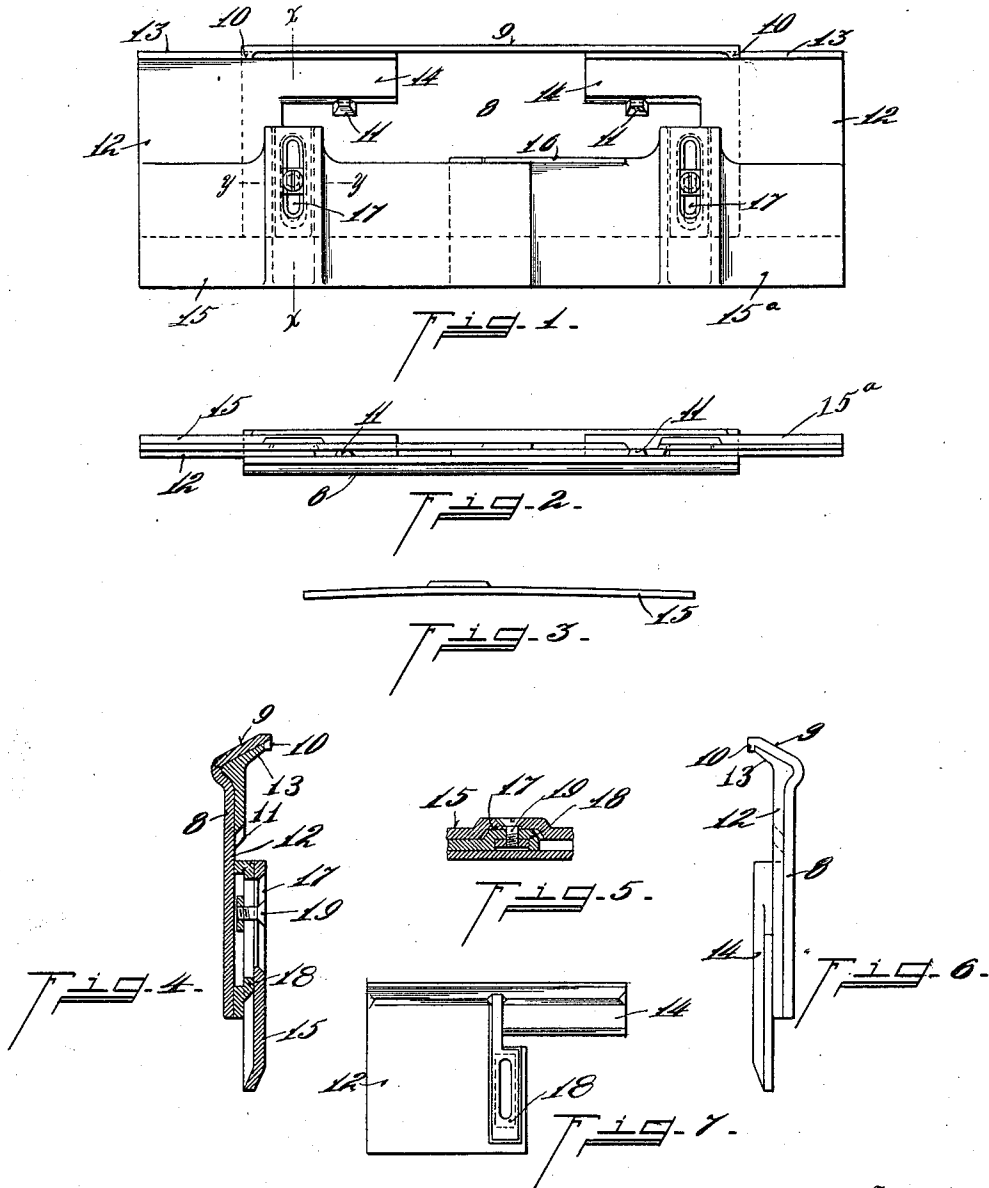


F. V. KNAUSS.
FIREBACK FOR STOVES.
APPLICATION FILED MAY 11, 1911.

1,022,630.

Patented Apr. 9, 1912.



Inventor

Frank V. Knauß

Witnesses

Chas. B. Knauß
C. B. Knauß

By

Wm. S. Knauß

Attorneys

UNITED STATES PATENT OFFICE.

FRANK V. KNAUSS, OF PORTSMOUTH, OHIO.

FIREBACK FOR STOVES.

1,022,630.

Specification of Letters Patent.

Patented Apr. 9, 1912.

Application filed May 11, 1911. Serial No. 626,632.

To all whom it may concern:

Be it known that I, FRANK V. KNAUSS, a citizen of the United States, residing at Portsmouth, in the county of Scioto and State of Ohio, have invented certain new and useful Improvements in Firebacks for Stoves, of which the following is a specification.

My invention relates to an improvement in stove back lining, and primarily to that type adjustable to various sizes of stoves.

The object of my invention is to provide a stove back lining, formed of a series of sections, adjustable relative to each other, so as to fit various sizes of cooking stoves.

Another object of my invention is to provide an adjustable stove back lining, comprising a series of plates, overlapping each other, and adapted to be frictionally united and maintained in their adjusted positions.

The features of my invention are more fully set forth in the description of the accompanying drawings, forming a part of this specification, in which:—

Figure 1 is a rear elevation of the plates set in position for use, to form a stove back lining. Fig. 2 is a bottom plan view of Fig. 1. Fig. 3 is a bottom plan view of the base plate shown to the left of Fig. 1, illustrating the same of slightly arched or curved formation. Fig. 4 is a section on line *x, x*, Fig. 1. Fig. 5 is a section on line *y, y*, Fig. 1. Fig. 6 is an end elevation of Fig. 1. Fig. 7 is a rear elevation of one of the longitudinal or end adjusting plates.

8 represents the main plate, which is provided with a flange 9 extended along the upper edge thereof, having overhanging lips 10 at each end.

11 represents guide lugs projecting from the plate 8 with their sides adjacent to the flange 9 slightly inclined.

12 represents adjustable right and left end plates each provided with a flange 13 along one edge thereof, adapted to register within the way formed by the flange 9 and lip 10 and slide therein. Each of the end plates 12 is provided with an L-extension 14, one edge of which is tapered coincidently with the taper of the lug 11, with which it engages for adjustably maintaining the side plates upon the main plate. Each adjustable end plate is extended laterally beyond the main plate to any desired position for fitting the same into any width of stove capable of receiving this style of fire-back.

15, 15^a represent vertically and longitudinally adjustable second or base plates adapted to overlap each other medially of the main plate and the respective end plates.

16 represents a flange projecting from the plate 15^a to maintain the alinement of said plates and form an intermediate connection against vertical displacement of said second or base plates, and guide the same in their adjustments.

17 represents a slotted guide way formed in each of said plates 15, 15^a and each plate in rear of said slotted guide way is provided with a groove adapted to receive a boss 18 projecting from the end plates 12.

The boss 18 of each end plate is provided with a slot coincident with the slot 17 formed in the second or base plates 15, 15^a, and through which slots a bolt 19 is projected for securing said plates in their adjusted positions.

The plates 15, 15^a are preferably slightly arched, so that in their overlapping engagement between themselves they will bear against the main plate 8, and in tightening the bolts 19 between the end and second plates, the second plates will have a tendency to straighten, and thereby frictionally engage upon the main plate. Such friction or locking engagement of the main and second plates exerts outward pressure upon the L-extensions 14 of the end plates, frictionally binding the same within the guide way formed by the flange 9 and lug 11. Thus five members of the stove back are securely locked in any adjusted position with two bolts, each bolt securing the end plate upon the main plate and the second plate upon its respective end plate and main plate.

To adjust the fire-back for any size of stove, the bolts 19 are loosened, releasing all of the elements whereby the end and second plates can be simultaneously adjusted horizontally, and the second plates vertically to such degree desired, and within a range which will permit the correlation between all the members, after which the bolts 19 are tightened, clamping all of the parts together.

Having described my invention I claim:—

1. In an adjustable stove back lining, a main plate provided with a slide way formed upon one side thereof, end plates oppositely disposed, each provided with an extension sliding in said way, a second plate adjustable on each of said end plates, said second plates overlapping each other medially of

and projected toward the main plate and movable with their respective end plates, and means passing through said end and second plates for securing the same together and
5 drawing the second plates to the main plate and frictionally clamping the same thereto in any adjusted position.

2. In an adjustable stove back lining, a main plate, end plates oppositely disposed
10 and slidably mounted upon the main plate, a second plate for each end plate adjustable transversely upon its respective end plate and movable therewith, with one end thereof projected to engage with the main plate
15 and frictionally clamped thereto when the end and second plates are clamped together, and clamping means for clamping said end and second plates together.

3. In an adjustable stove back lining, a main plate, end plates oppositely disposed 20 and slidably mounted upon said main plate, a second plate for each end plate, adjustable transversely upon its respective end plate and movable therewith, said second plates overlapping each other medially of the main 25 plate, and each slightly arched, and clamping means for securing said end and second plates together respectively and thereby frictionally uniting the same with the main plate. 30

In testimony whereof, I have hereunto set my hand.

FRANK V. KNAUSS.

Witnesses:

OLIVER B. KAISER,
EMMA SPENER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
