This invention relates to an improvement in stoves or ranges and has for its primary object the purpose of providing an improved concealed hinge for the range door.

Another object of the invention is in providing an improvement in a door and a door frame for a stove or range whereby the door will have its front face held in a position flush with the front or outer face of the frame.

A further object of the invention is in providing a hinge for a stove or range door which is disposed interiorly of the door and door frame to which the door is attached.

A still further object of the invention is in providing improvements in the door and door frame whereby the door can be secured to the frame in an improved manner.

Other and further objects will appear in the specification and be specifically pointed out in the appended claims, reference being had to the accompanying drawings, exemplifying the invention, and in which:

Figure 1 is a front elevation of this improved door and frame to which the door is secured.

Figure 2 is a vertical section taken on the line II—II of Fig. 1.

Figure 3 is a fragmentary rear view of the lower portion of the door and frame therefrom.

Figure 4 is an enlarged fragmentary vertical section taken on the line IV—IV of Fig. 1.

Referring by numerals to the accompanying drawings, I designates a rectangular door frame having inwardly formed door seating portions 2 and 3, the door seating portions 3 each terminating a distance above the lower portion 4 of the frame.

Formed or mounted on the lower portion 4 of the door frame 1 on the rear side thereof, are a pair of aligning bearings 5, each of said bearings being for the reception of one end of a respective pin 6, said pins being co-operable with the door 7 which is adapted to be mounted in the rectangular opening 9 of the frame. A bearing 9 is formed or mounted on the inner face of the door 7 at the bottom thereof and adjacent respective side edges of the door, each of said bearings being for the reception of a respective pin 6.

The portion of each pin 6 which is adapted to be mounted in a respective bearing 9 is provided with a pair of annular grooves 10, and mounted over each of said pins is a cap 11, each cap being secured to a respective bearing 9 by the screws 12. Each of the caps 11 is provided with a pair of depressed portions 13, each portion 13 being engaged in a respective groove 10, said caps and their depressed portions preventing the respective pins 6 from endwise displacement so that they cannot become disengaged from the door 7 and the bearings 5 of the frame 1.

Extending rearwardly from the door 7 on the outside of a respective bearing 9 are downwardly extending tongues 14 each having an engaging portion 15, each engaging portion 15 of each tongue adapted to engage against a respective lower portion 16 of each seating portion 3 of the door frame when the door is swung to a horizontal position as shown in Fig. 4, said tongues 14 and engaging portions 15 firmly holding the door in its swing position.

In mounting the door in the frame it is obvious that the door can be placed horizontally in the frame as shown in Fig. 4, and the pins 6 each mounted in respective bearings 9, said pins then being pushed through aligning bearings 5 in the door frame, each pin after being placed in position in respective bearings 5 being secured by respective caps 11. This manner of mounting separate and removable pins rearwardly of the door provides a construction in which the door will swing freely in the frame and by reason of the rearward disposition of the hinge of the door which is provided by the pins 6 in their respective bearings, the door is permitted to have its outer surface flush with the outer surface of the frame, thus presenting an enhancing and pleasing appearance as well as providing a hinge of a simple and substantial construction.

What I claim is:

1. A stove or range having a door frame and a door adapted to be secured in said frame, a pair of pins supported by said frame interiorly thereof, and clamping means adapted to be secured over said pins and against said door.

2. In a stove or range the combination of a door frame having door seating means formed therein, a door adapted to be mounted in said frame against said seating means, a pair of bearings extending rearwardly from said frame, a pin borne by each of said bearings, and a pair of clamping members each adapted to be secured over a respective pin borne by the lower portion of said door.
3. A stove or range having a door frame and a door adapted to be seated in said frame, said frame having a pair of bearings formed on the rear thereof, a pin horizontally supported from each of said bearings, and a pair of clamps each bearing on a pin and being secured to said door.

4. A stove or range having a door frame and a door adapted to be seated in said frame, said frame having a pair of bearings, a pin supported from each of said bearings each adapted to overlap a portion of said door, and clamping means operable with each pin for securing said pins to said door.

5. A stove or range having a door frame and a door adapted to be seated in said frame, said frame having a pair of bearings, a pin supported from each of said bearings each adapted to overlap a portion of said door, clamping means operable with each pin for securing said pins to said door, and means extending rearwardly from said door for engagement with an interior portion of said frame for holding said door in a horizontal position.

6. A stove or range having a door frame and a door cooperating with said frame, said door having a pair of pins extended therefrom, said frame having a bearing for the support of each pin, each of said pins having an annular groove formed adjacent one end, and a pair of clamps for securing said pins to said door each having a portion for engagement with a respective groove of said pins.

7. A stove or range including a frame having a door opening, a door adapted to be received in said opening, and means for mounting the door for swinging movement, said means including a pin removably supported by the frame adjacent the opening, and means detachably connected to the door and normally engaged with the pin.

8. A stove or range including a frame having a door opening, a door adapted to be received in said opening, and means for mounting the door for swinging movement, said means including a pin removably supported by the frame adjacent the opening, and a clamping plate detachably connected to the door and normally engaging the pin.

9. A stove or range including a frame having a door opening, a door adapted to be received in said opening, and means for mounting the door for swinging movement, said means including a pin removably supported by the frame adjacent the opening and provided with a recess, and a plate detachably connected to the door and normally engaging the pin, said plate having a portion normally received in the recess of the pin.

10. A stove or range including a frame having a door opening, a door adapted to be received in said opening, and means for mounting the door for swinging movement, said means including a horizontally extending pin having a portion extending transversely of the opening, and means carried by the door and engageable with the pin for connecting the door thereto and to prevent movement of the pin transversely of the opening or the door.

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