To all whom it may concern:

Be it known that I, ANTON OCHNEMUS, a citizen of the United States, and a resident of Quincy, in the county of Adams and State of Illinois, have invented a certain new and useful Improvement in Closet-Door Stoves, of which the following is a specification.

This invention relates to an improvement in oven doors of the type in which various portions are finished in various different ways, as for instance, some by being enameled and others by being nickel-plated and polished, etc.

It is well known that it is very difficult if not entirely impracticable to treat only a portion of an object, the remaining portion of which is to be untreated, with vitrious or metallic oxide solutions that require baking or heating to finish the process.

In the manufacture of stove closet doors, it has been found desirable to finish portions of the door with enamel and to finish other portions in various other ways, such as by polishing, nickel-plating, etc. One of the principal objects of my invention is to provide a novel arrangement and construction of a closet door such as is used in cooking stoves and ranges, in which the various parts that are to be treated in various manners, are made separately and treated separately, and are then assembled into the finished and completed door.

A further object of the invention is to provide an oven closet door in which a portion of the same is finished in enamel, being treated entirely and separately by itself and later assembled in a proper manner to form a portion of the door.

A still further object is to provide an oven closet door in which will be extremely simple, durable, efficient in operation, and inexpensive to manufacture. With these and other objects in view which will become apparent as the description proceeds, the invention resides in the construction, combination, and arrangement of parts hereinafter more fully described and claimed and illustrated in the accompanying drawings in which like characters of reference indicate like parts throughout the several figures, of which:

Figure 1 represents a view in perspective of an oven closet door constructed according to my invention, showing the same in position on a range. Fig. 2 represents a view in section therethrough taken vertically and transversely on the plane indicated by the line 2—2 of Fig. 1. Fig. 3 represents a fragmentary sectional view taken through one of the hinges of the door, on the plane indicated by the line 3—3 of Fig. 2. Fig. 4 represents a fragmentary composite view in perspective of the base and front plates of the door. Fig. 5 represents a fragmentary sectional view taken transversely and horizontally on the plane indicated by the line 5—5 of Fig. 1.

In carrying out my invention, I provide a door having a base or rear plate which is made of polished steel or other suitable material. This plate is flat and at its upper and lower edges is formed into a roll or bead as indicated at 6. The inner edges of the bead are disposed in slightly spaced relation with the adjacent surface of the plate.

The front plate of the door is indicated at 7, and is preferably of a transversely concavo-convex formation, and is intended to be finished with enamel. In assembling the parts of the door, the front plate is adapted to be so connected with the base or rear plate as to have the upper and lower edges of said front plate inserted in the rolled or tubular edges 6 and between the base plate and the adjacent tubular edges in the manner indicated in Fig. 2, in such a way that the front plate will be firmly maintained in position.

The end members or caps 8 of the door are of the formation indicated in Fig. 1, and provide the inwardly extending lips or flanges 9 overhanging the ends of plate 7. The caps are provided at their ends with extensions or ears 10 which overhang the ends of the beaded or tubular edges 6 of the base plate. The lower ear 10 of each cap is provided with a recess or socket at 11 for the reception of a lug or pin 12 carried by an ear or extension 13 formed on the frame work 14 of the range. These lugs or pins act as pivots upon which the door may be swung into open and closed positions.

By thus constructing the door of the various separate parts adapted to be assembled, in the manner indicated, each of the parts may be separately treated or finished by any process or ornamentation in the most convenient manner.

Although I have described the preferred
embodiment of my invention, I may desire to make such changes in the construction, combination, and arrangement of parts thereof, as do not depart from the spirit of the invention and the scope of the appended claims.

I claim:

1. A stove closet door comprising a substantially flat base plate having its upper and lower edges outwardly rolled, a front plate of concavo-convex formation transversely, said front plate adapted to be engaged at its upper and lower edges between said base plate and the rolled edges thereof, and end caps adapted to overhang the ends of the base plate and being provided each with a flange overhanging one end of the front plate, said caps being further provided with ears overhanging the ends of the rolled edges of the base plate, one ear of each cap being provided with a recess for receiving a pivot pin upon which the door is adapted to be swung.

2. A stove closet door including a base plate having rolled edges, and a front plate of substantially concavo-convex formation transversely, said front plate having plain edges engaged between said base plate and the rolled edges thereof.

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Witnesses:

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