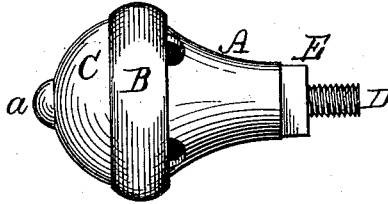


M. W. GARDNER.  
Stove Door Knob.

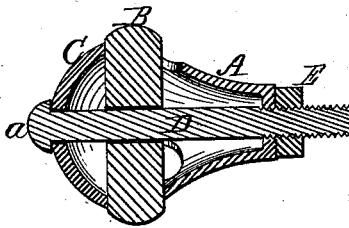
No. 168,734.

Patented Oct. 11, 1875.

*Fig. 1.*



*Fig. 2.*



Witnesses:

John Tyler  
Arthur C. McIntire

Inventor:

Miles W. Gardner

By atty Arthur C. McIntire

# UNITED STATES PATENT OFFICE

MILES W. GARDNER, OF GREEN ISLAND, NEW YORK.

## IMPROVEMENT IN STOVE-DOOR KNOBS.

Specification forming part of Letters Patent No. 168,734, dated October 11, 1875; application filed August 20, 1875.

### *To all whom it may concern:*

Be it known that I, MILES W. GARDNER, of Green Island, in the county of Albany and State of New York, have invented certain new and useful Improvements in Knobs for Stove-Doors; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings making a part of this specification.

My invention relates to that class of knobs or handles for the doors, pans, &c., of stoves and ranges, designed to be non-conductors of heat, so that they may be grasped without injury to the hand; and it has for its object to provide such knobs with a section of non-conducting material so arranged that there shall be no liability of the hand coming in contact with the metal portions of the knob; and with this object in view my invention consists of a knob or handle composed of metal cone or other shaped piece and a metal cap or top, having located between them a disk of wood of greater diameter, the whole secured together and tightened by a screw-bolt and nut, as will be hereinafter more fully set forth.

To enable those skilled to more fully understand the construction and advantages of my improved knob, I will proceed to describe the same, referring to the accompanying drawing, in which—

Figure 1 is a side view of a knob embodying the features of my invention, and Fig. 2 a longitudinal section of the same.

Similar letters of reference indicate like parts in both figures.

A represents a cone-shaped metal base, preferably hollow and perforated, the smaller end adapted to rest against the face of the door. B is a disk of wood of any kind, the diameter of which is larger than the metal base-piece A or the cap-piece C, also of metal, in order that the edge or periphery shall extend beyond the metal pieces, in order that the hand, in grasping the said disk, shall not come in contact with the heated metal pieces.

The cap-piece C, like the base-piece A, may be solid, though I prefer to make it hollow, as

this construction is calculated to absorb less heat than if made solid.

D is a screw-bolt, provided at one end with a rounded head, *a*, and at the other with a screw-thread adapted to receive a tightening and securing nut, E.

The cap-piece C may be entirely omitted, in which case the disk B has its upper side, preferably, rounded, so as to give the finished knob a design similar to that shown with the metal cap C. All the several parts of the knob are designed to allow the passage of the bolt D centrally through them, and the knob is secured to the front of the door or pan by passing the threaded end of the bolt through a suitable hole, and then running up the nut E, which effectually tightens the several parts and secures them to the door.

It will be observed that my improved knob is economically and readily manufactured, as the metal cap and base may be easily cast and the wooden portion turned, while the screw-bolts may be obtained in the market.

The several parts, when finished, may be secured together in their proper relation to each other by the nut E, as shown in the drawing, and when desired to be secured to the stove-door the nut E is simply removed, the screw passed through the plate, and the nut again screwed up.

The several parts of my improved knob may be made of any desirable or ornamental design, and the metal portions may be nickel-plated or japanned.

What I claim as new, and desire to secure by Letters Patent, is—

As a new article of manufacture, a knob for stove-doors composed of a hollow perforated metal base, a non-conducting wood disk, and central securing bolt and nut, substantially as and for the purposes set forth.

In testimony whereof I have hereunto set my hand.

MILES W. GARDNER.

In presence of—

E. L. BLOOD,  
E. A. LEARNED.